



Prepared for

Georgia Power Company
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2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT HAMMOND ASH POND 1 (AP-1)

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CERTIFICATION STATEMENT

This 2023 Annual Groundwater Monitoring and Corrective Action Report, Plant Hammond Ash Pond 1 (AP-1) has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Geosyntec Consultants, Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.



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January 31, 2024
Date

SUMMARY

This summary of the *2023 Annual Groundwater Monitoring and Corrective Action Report* provides the status of the groundwater monitoring and corrective action program for the reporting period of January through December 2023 (referred to herein as the “annual reporting period”) at Georgia Power Company’s (Georgia Power’s) Plant Hammond Ash Pond 1 (AP-1) (the Site). This summary was prepared by Geosyntec Consultants, Inc. (Geosyntec) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (federal CCR Rule) (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Hammond is located at 5963 Alabama Highway SW, approximately 10 miles west of Rome in Floyd County, Georgia. CCR material resulting from power generation were historically transferred and stored in AP-1 until 1969. After 1969, AP-1 was utilized as a co-treatment pond to handle return water flows from the other ponds and for recycling of process water for plant operations. The Site is located on the southeastern portion of the Plant Hammond property. The Georgia Environmental Protection Division (GA EPD) approved closure permit no. 057-023D(CCR) for AP-1 on June 22, 2020.



Plant Hammond and the Site

Groundwater at the Site is monitored using a comprehensive monitoring network that meets federal and state monitoring requirements. Routine sampling and reporting began after the background groundwater conditions were established between May 2016 and May 2017. Based on groundwater conditions at the Site, an assessment monitoring program and assessment of corrective measures program were established in January 2018 and January 2019, respectively.

During the annual reporting period, Geosyntec conducted two groundwater sampling events in January and August 2023 in support of the assessment monitoring program. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per

¹ 80 FR 21468, Apr. 17, 2015, as amended at 81 FR 51807, Aug. 5, 2016; 83 FR 36452, July 30, 2018; 85 FR 53561, Aug. 28, 2020

the federal CCR Rule, groundwater data from the two semiannual assessment monitoring events conducted during the annual reporting period were evaluated in accordance with the certified statistical methods. The evaluations identified statistically significant values of select Appendix III² and Appendix IV³ constituents in excess of established groundwater protection standards (GWPS) in select monitoring wells, as summarized in the table below for the annual reporting period.

| Appendix III Constituent | January 2023 | August 2023 |
|---|--|---|
| Boron | HGWC-7, HGWC-8, HGWC-9, HGWC-11, HGWC-12, HGWC-13 | HGWC-7, HGWC-8, HGWC-9, HGWC-10, HGWC-12, HGWC-13 |
| Calcium | HGWC-9, HGWC-12, HGWC-13 | HGWC-9, HGWC-10, HGWC-12, HGWC-13 |
| Chloride | HGWC-8, HGWC-9 | HGWC-8, HGWC-9 |
| Sulfate | HGWC-7, HGWC-8, HGWC-9, HGWC-11, HGWC-12, HGWC-13 | HGWC-8, HGWC-9, HGWC-10, HGWC-11, HGWC-12, HGWC-13 |
| Total Dissolved Solids | HGWC-9, HGWC-13 | HGWC-9, HGWC-12, HGWC-13 |
| Appendix IV Constituent ⁴ | January 2023 | August 2023 |
| Arsenic | HGWC-13 | HGWC-13 |
| Molybdenum | HGWC-8 | HGWC-8 |

Based on a review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program for the annual reporting period, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to Georgia Power’s CCR Rule Compliance website and provided to GA EPD semiannually. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022. Following GA EPD’s approval of the *HGWC-8 Pilot Study Workplan* (Geosyntec,

² Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids

³ Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

⁴ A statistically significant level (SSL)-related constituent is determined by comparing the confidence intervals developed to either the constituent’s MCL, if available; where an MCL has not been established, then a CCR-rule specific GWPS; or background concentrations for constituents where the concentration is greater than the MCL or rule specified GWPS.

2023a) and the *HGWC-13 Pilot Study Workplan* (Geosyntec, 2023b) on August 24, 2023, a pilot study was initiated at AP-1 in support of the ongoing Remedy Selection process.

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LIST OF ACRONYMS AND ABBREVIATIONS

| | |
|------------------|--|
| ACM | Assessment of Corrective Measures |
| AP-1 | Ash Pond 1 |
| ASD | Alternate Source Demonstration |
| CCR | coal combustion residuals |
| CFR | Code of Federal Regulations |
| DO | dissolved oxygen |
| EDR | Environmental Data Resources |
| ft/day | feet per day |
| ft/ft | feet per foot |
| GA-20 | Georgia Highway 20 |
| GA EPD | Georgia Environmental Protection Division |
| Georgia Power | Georgia Power Company |
| Geosyntec | Geosyntec Consultants, Inc. |
| GSC | Groundwater Stats Consulting |
| GWPS | groundwater protection standard |
| HAR | Hydrogeologic Assessment Report |
| i | horizontal hydraulic gradient |
| K_h | horizontal hydraulic conductivity |
| MCL | Maximum Contaminant Level |
| mg/L | milligram per liter |
| MNA | Monitored Natural Attenuation |
| n_e | effective porosity |
| NELAP | National Environmental Laboratory Accreditation Program |
| NTU | nephelometric turbidity units |
| ORP | oxidation reduction potential |
| Pace Analytical | Pace Analytical Services, LLC. |
| PE | professional engineer |
| PL | prediction limit |
| QA/QC | Quality Assurance/Quality Control |
| SSI | statistically significant increase |
| SSL | statistically significant level |
| s.u. | standard unit |
| Unified Guidance | Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance |
| USEPA | United States Environmental Protection Agency |

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (federal CCR Rule) (40 Code of Federal Regulations [CFR] Part 257, Subpart D) and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, Geosyntec Consultants, Inc. (Geosyntec) has prepared this *2023 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company (Georgia Power) Plant Hammond (Site) Ash Pond 1 (AP-1) for the reporting period of January through December 2023 (referred to herein as the annual reporting period).

Groundwater monitoring and reporting for the CCR unit is performed in accordance with the monitoring requirements of § 257.90 through 257.95 of the federal CCR Rule, and GA EPD Rules for Solid Waste Management 391-3-4-.10(6). To specify groundwater monitoring requirements, GA EPD rule 391-3-4-.10(6)(a) incorporates by reference the federal CCR Rule. For ease of reference, the federal CCR Rule is cited within this report in lieu of citing both sets of regulations. Also, the closure permit issued by GA EPD (i.e., no. 057-023D(CCR)) stipulates that groundwater monitoring is required while CCR waste remains in place at the CCR unit and for no less than 5-years after removal of the material.

Due to statistically significant levels (SSLs) of arsenic and molybdenum identified in the *2018 Annual Groundwater Monitoring and Corrective Action Report* (Geosyntec, 2019a), Georgia Power initiated an assessment of corrective measures (ACM) program for AP-1 in January 2019. Pursuant to § 257.96(b), Georgia Power continues to monitor groundwater associated with AP-1 in accordance with the assessment monitoring program established for the unit, including semiannual monitoring and reporting pursuant to § 257.90 through § 257.95 of the federal CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022, (Geosyntec, 2022a) and is currently under review.

The current reporting period groundwater data indicate that SSLs for arsenic and molybdenum concentrations are horizontally and vertically delineated to below their corresponding groundwater protection standards (GWPS) and contained within the property boundary.

1.1 Site Description and Background

Plant Hammond is located in Floyd County, Georgia, approximately 10 miles west of Rome and is bordered by Georgia Highway 20 (GA-20) on the north, the Coosa River on the south, Cabin Creek and industrial land on the east, and sparsely populated, forested, rural and industrial land on the west (**Figure 1**). The physical address of the plant is 5963 Alabama Highway, Rome, Georgia, 30165.

Plant Hammond was a four-unit, coal-fired electric generating facility. All four units at Plant Hammond were decommissioned in July 2019 and no longer produce electricity.

AP-1 is a 35-acre surface impoundment located at Plant Hammond that received CCR materials from its commission in 1952 until 1969. After 1969, AP-1 was utilized as a co-treatment pond to handle return water flows from the other ponds and for recycling of process water for plant operations. Georgia Power has commenced closure of AP-1 through removal of the CCR material from the CCR unit; closure activities will be conducted in accordance with § 257.102 and corresponding Rule 391-3-4-.10(7)(b). The proposed closure by removal approach provides a source control measure that reduces the potential for migration of CCR constituents to groundwater. Details of the closure approach are provided in the Written Closure Plan, published to Georgia Power's CCR Rule Compliance website. Closure permit no. 057-023D(CCR) was approved by GA EPD on June 22, 2020.

1.2 Regional Geology and Hydrogeologic Setting

The following section summarizes the geologic and hydrogeologic conditions at AP-1 as described in the *Hydrogeologic Assessment Report Revision 01 – AP-1* (HAR Rev 01) submitted to GA EPD in December 2019 in support of the AP-1 solid waste handling permit (Geosyntec, 2019c).

1.2.1 Regional and Site Geology

The Site is located within the Great Valley District of the Valley and Ridge Physiographic Province (Valley and Ridge) in northwest Georgia. The Valley and Ridge is characterized by Paleozoic sedimentary rocks that have been folded and faulted into the ridges and valleys that gave this region its name. Geologic mapping performed at the Site by Petrologic Solutions, Inc., under the direction of Golder (Golder, 2018), indicates that AP-1 is underlain by the middle units of the Cambrian age Conasauga Formation, consisting of mostly shaley limestone. Subsurface investigations at AP-1 describe the

bedrock as limestone or shaley limestone. AP-1 is underlain primarily by five lithologic units: (i) fill; (ii) terrace alluvium; (iii) residuum; (iv) highly weathered/fractured shaley limestone bedrock; and (v) competent shaley limestone bedrock.

Based on subsurface investigations, the fill material is composed of lean clay or gravelly lean clay with sand from the construction of the pond. The terrace alluvium consists of unconsolidated sediments associated with deposition from the Coosa River and Cabin Creek. Alluvium was variously described as well sorted and poorly sorted sand, clayey sand, sandy gravel, clayey gravel, or gravelly clay. The residuum clay layer or native soils have been derived from the in-place weathering of the shaley limestone bedrock. The residuum is generally described as a lean to fat clay, sometimes silty with some sand, and rarely gravel. The subsurface investigation data suggest that the residuum thins out in places, and the alluvial deposits is in direct contact with the upper fractured or the unweathered limestone bedrock. Just below the residuum clay layer is a gradational zone of varying proportions of clayey residuum and sand, gravel, and cobble-sized angular pieces of partially weathered limestone, grading into a zone of fractured shaley limestone, before grading into unweathered, fresh shaley limestone bedrock. The upper highly weathered zone appears more as residuum with various sized rock fragments. The lower zone becomes less clayey with depth and is estimated to be approximately 10 feet thick. The limestone is described as medium to dark gray, very finely laminated with lighter and darker gray layers, and contains interbeds of calcareous shale.

1.2.2 Hydrogeologic Setting

The uppermost aquifer at AP-1 is a regional groundwater aquifer that occurs in the terrace alluvium, residuum, and the weathered and fractured bedrock. The uppermost aquifer is considered to be unconfined; however, localized, semi-confined conditions may be encountered due to the low-permeability clayey nature of the residual soils, or as a result of perched groundwater or poorly interconnected fracture networks in the bedrock. The movement of groundwater in the uppermost aquifer can be characterized as low-to moderate permeability porous media flow. Groundwater flow in the more competent underlying bedrock is characterized as fracture flow. The regional groundwater flow direction is expected to be from north to south; however, the local flow direction proximal to AP-1 is to both the east and south under current pre-closure conditions. Under post-closure conditions, the groundwater flow direction is anticipated to resemble the regional flow regime more closely (north to south toward the Coosa River).

1.3 Groundwater Monitoring Well Network

In accordance with § 257.91, a groundwater monitoring system was installed at AP-1 that consists of a sufficient number of wells installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer to represent the groundwater quality both upgradient of the units (i.e., background conditions) and passing the waste boundary of the units. The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of site specific hydrogeologic conditions.

As part of the assessment monitoring program, assessment monitoring wells have been installed since 2018 to supplement the pre-existing detection monitoring wells and characterize the nature and extent of SSLs in groundwater downgradient of AP-1. Pursuant to § 257.195(g)(1)(iv), the wells classified as “assessment monitoring wells” will continue to be sampled concurrently with the detection monitoring well network as part of the ongoing assessment groundwater monitoring program.

An on-site network of piezometers is used in combination with the detection and assessment monitoring well networks to gauge water levels to define groundwater flow direction and gradients. The piezometers may be sampled as needed to support the ACM program.

The locations of the detection monitoring wells, assessment monitoring wells, and piezometers are shown on **Figure 2**; well and piezometer construction details are listed in **Table 1A** and **Table 1B**, respectively.

2.0 GROUNDWATER MONITORING ACTIVITIES

In accordance with § 257.90(e), the following describes monitoring-related activities performed during the annual reporting period and discusses any change in status of the monitoring program. Groundwater sampling was performed in accordance with § 257.93.

2.1 Monitoring Well Installation and Maintenance

Six piezometers (MW-53, MW-54, PT-07, PT-08, PT-09, and PT-10) were installed in June 2023; the locations of these six piezometers are shown on **Figure 2**. MW-53 and MW-54 were installed to support high-resolution site characterization. PT-07, PT-08, PT-09, and PT-10 were installed to specifically monitor the performance of the pilot study injection activities initiated in September 2023 in support of the ACM program. A well installation report that includes detailed boring and well construction logs for the installation of these piezometers was submitted to GA EPD in October 2023 under separate cover and is provided in **Appendix A**.

The well and piezometer networks are inspected semiannually to evaluate if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In January and August 2023, the networks were inspected, necessary corrective actions were identified and subsequently completed, as documented in **Appendix B**. This documentation was prepared under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

Georgia Power initiated an assessment monitoring program for groundwater at AP-1 in January 2018 based on statically significant increases (SSIs) of Appendix III constituents documented in the *2017 Annual Groundwater Monitoring and Corrective Action Report* (ERM, 2018). A notice of assessment monitoring was placed in the operating record on May 15, 2018. Currently identified SSLs of Appendix IV constituents exceeding their respective GWPS at AP-1 are arsenic in HGWC-13 and molybdenum in HGWC-8.

Pursuant to § 257.96, an ACM was initiated for AP-1 in January 2019. An *Assessment of Corrective Measures Report – Plant Hammond Ash Pond 1 (AP-1)* (ACM Report) was subsequently prepared for AP-1 (Geosyntec, 2019b) and submitted to GA EPD in June 2019 and posted to Georgia Power’s CCR Rule Compliance website in July 2019. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022

(Geosyntec, 2022a). In accordance with § 257.96(b), groundwater continues to be monitored at AP-1 under the assessment monitoring program while the ACM phase is implemented.

In support of the routine assessment monitoring program, the semiannual assessment monitoring events were conducted in January and August 2023. The wells sampled and the dates the samples were collected at AP-1 during the annual reporting period are summarized in **Table 2**. Well MW-28D was resampled for barium in October 2023 to verify the result collected during the August 2023 monitoring event. Details of these events and analytical results are discussed in Section 3.

2.3 Additional Groundwater Evaluations

Supplemental groundwater samples were collected from the entire AP-1 detection and assessment well networks during the August 2023 event and were analyzed for major cations (calcium, magnesium, potassium, and sodium), major anions (chloride, sulfate, and alkalinity [i.e., bicarbonate, carbonate, total]), iron, and manganese. The data were collected in support of evaluating the geochemical composition of the groundwater in conjunction with the ACM activities.

2.4 Assessment of Corrective Measures

High-resolution site characterizations were completed in August 2022 and February 2023 to characterize and refine proposed in-situ injection treatment areas proximal to HGWC-8 and HGWC-13, respectively. Twelve direct push technology (DPT) borings were advanced near HGWC-8 and seven borings near HGWC-13 for the collection of remedial design parameters and screening-level groundwater data. The analytical results were used to determine the locations and depths of pilot study injection and performance monitoring piezometers. The high-resolution site characterization results were summarized in the *HGWC-8 Pilot Study Workplan* (Geosyntec, 2023a) and the *HGWC-13 Pilot Study Workplan* (Geosyntec, 2023b).

To establish pre-injection baseline conditions, groundwater samples were collected from performance monitoring piezometers (PT-07 through PT-10) in July and August 2023, prior to initiating injection activities in late September 2023. Groundwater samples were analyzed for the complete suite of Appendix III and Appendix IV constituents, and select metals and inorganics necessary to evaluate the geochemistry of the groundwater. Post injection performance monitoring of these piezometers was initiated in October 2023 in

accordance with the pilot study workplans. Details of these events and analytical results are discussed in Section 6.

3.0 SAMPLING METHODOLOGY AND ANALYSES

The following section presents a summary of the field sampling procedures that were implemented, and the groundwater sampling results that were obtained in connection with the assessment monitoring program conducted at AP-1 during the annual reporting period.

3.1 Groundwater and Surface Water Level Measurement

A synoptic round of depth-to-groundwater-level measurements were recorded from the AP-1 wells and piezometers during the January and August 2023 assessment monitoring events and used to calculate the corresponding groundwater elevations, which are presented in **Table 3**. The January 2023 groundwater elevations are generally representative of the groundwater elevations reported for prior monitoring events. The August 2023 groundwater elevations are generally lower than those of prior monitoring events, likely due to the ongoing dewatering of AP-1.

A surface water elevation was recorded at the Coosa River staff gauge located downgradient of AP-1. The location of the Coosa River staff gauge is shown on **Figure 2**. A water level within AP-1 was not recorded in January or August 2023 as the staff gauge was reportedly removed due to closure construction activities.

The groundwater and surface water elevation data were used to prepare a potentiometric surface map for the January and August 2023 gauging events, which are presented on **Figure 3** and **Figure 4**, respectively. Groundwater in the AP-1 area flows under the influence of topography from slightly higher elevations on the north side of the Site in a generally easterly and southerly direction. This groundwater flow pattern is consistent with previous observations.

3.2 Groundwater Gradient and Flow Velocity

The horizontal groundwater hydraulic gradients within the uppermost aquifer beneath AP-1 were calculated using the groundwater elevation data from the January and August 2023 gauging events. Horizontal hydraulic gradients were calculated along the flow path south of AP-1 between HGWC-13 and MW-7 and between HGWC-8 and MW-20 along the flow path east of AP-1. The supporting calculations are presented in **Table 4**. The table also presents the average hydraulic gradients calculated from the January and

August 2023 gauging events. The general trajectory of the flow paths used in the calculations and associated potentiometric contour lines are shown on **Figure 3** and **Figure 4**. The calculated average hydraulic gradients along the southerly and easterly groundwater flow path lines associated with AP-1 for the annual reporting period is 0.013 feet per foot (ft/ft) between HGWC-13 and MW-7, and 0.011 ft/ft between HGWC-8 and MW-20.

The approximate horizontal flow velocities associated with AP-1 were calculated using the following derivative of Darcy's Law. The calculations are presented on **Table 4**.

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

where:

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

$$K_h = \text{Horizontal Hydraulic Conductivity} \left(\frac{\text{feet}}{\text{day}} \right)$$

$$i = \text{Horizontal hydraulic gradient} \left(\frac{\text{feet}}{\text{foot}} \right) = \frac{h_1 - h_2}{L}$$

$$h_1 \text{ and } h_2 = \text{Groundwater elevation at location 1 and 2}$$

$$L = \text{Distance between location 1 and 2}$$

$$n_e = \text{Effective porosity}$$

The average horizontal hydraulic conductivity (K_h) for AP-1 of 11.82 feet per day (ft/day) was computed from slug test data derived from ten locations across the AP-1 area and presented in the HAR Rev 01 (Geosyntec, 2019c). An estimated effective porosity (n_e) of 0.15 is used to represent average conditions at AP-1, derived based on review of literature (Kresic, 2007), observed site lithology, and professional judgement. With these variables defined, and accounting for the averaged hydraulic gradient discussed above for the January and August 2023 gauging events, the average groundwater flow velocity in the vicinity of AP-1 for the annual reporting period was calculated to be 0.9 ft/day (i.e., average of the southerly and easterly flow velocities).

3.3 Groundwater Sampling Procedures

Groundwater samples were collected using low-flow sampling procedures in accordance with § 257.93(a). Purging and sampling was performed using dedicated bladder pumps with dedicated tubing, non-dedicated bladder pumps, and peristaltic pumps. For wells sampled with non-dedicated bladder pumps and peristaltic pumps, the pump intake was lowered to the midpoint of the well screen (or as appropriate based on the groundwater level). Non-dedicated bladder pump and peristaltic pump samples were collected using new disposable polyethylene tubing; all non-dedicated tubing was disposed of following the sampling event. All non-disposable equipment was decontaminated before use and between well locations.

An in-situ water quality field meter (Aqua TROLL 400) was used to monitor and record field water quality parameters [i.e., pH, conductivity, dissolved oxygen (DO), temperature, and oxidation reduction potential (ORP)] during well purging to verify stabilization prior to sampling. Turbidity was monitored using a portable turbidity meter (i.e., LaMotte 2020we or similar). Groundwater samples were collected once the following stabilization criteria were met:

- pH \pm 0.1 standard units (s.u.).
- Conductivity \pm 5%.
- \pm 0.2 milligrams per liter (mg/L) or \pm 10% (whichever is greater) for DO > 0.5 mg/L. No criterion applies if DO < 0.5 mg/L, record only.
- Turbidity measured less than 5 nephelometric turbidity units (NTU) or measured between 5 and 10 NTU following three hours of purging.

Following purging, and once stabilization was achieved, unfiltered samples were collected into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to Pace Analytical Services, LLC (Pace Analytical) in Peachtree Corners, Georgia, following chain-of-custody protocol. The field sampling and equipment calibration forms generated during the annual reporting period are provided in **Appendix C**; forms generated during monitoring events associated with the pilot studies are provided in a subsequent appendix as discussed in Section 6.

3.4 Laboratory Analyses

Laboratory analyses were performed by Pace Analytical, which is accredited by the National Environmental Laboratory Accreditation Program (NELAP). Pace Analytical maintains a NELAP certification for the Appendix III and Appendix IV constituents analyzed for this project. Analytical methods used for groundwater sample analyses, and associated results, are listed in the analytical laboratory reports included in **Appendix C**. The groundwater analytical results from the annual reporting period are summarized in **Table 5**. The laboratory reports generated during monitoring events associated with the pilot studies are provided in a subsequent appendix as discussed in Section 6.

3.5 Quality Assurance and Quality Control Summary

Quality assurance/quality control (QA/QC) samples were collected during the groundwater monitoring events in accordance with the site's *Groundwater Monitoring Plan* (Geosyntec, 2021b), and included the following: field duplicates, equipment blanks, and field blank samples. QA/QC samples were collected in appropriately preserved laboratory-provided containers and submitted under the same chain of custody as the primary samples for analysis of the same constituents by Pace Analytical.

In addition to collecting QA/QC samples, the data were validated based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and applicable federal guidance documents (USEPA, 2011; USEPA, 2017). Where necessary, the data were qualified with supporting documentation and justifications. The validated data are considered usable for meeting project objectives. The associated data validation reports are provided in **Appendix C**, along with the laboratory reports.

4.0 STATISTICAL ANALYSIS

The following section summarizes the statistical analysis of Appendix III groundwater monitoring data performed pursuant to § 257.93. In addition, pursuant to § 257.95(d)(2), Georgia Power established GWPS for the Appendix IV constituents and completed statistical analyses of the Appendix IV groundwater monitoring data obtained during the annual reporting period. The data were analyzed by Groundwater Stats Consulting (GSC); the report generated from the analyses are provided in **Appendix D**.

4.1 Statistical Methods

Groundwater data from the annual reporting period were statistically analyzed in accordance with the Professional Engineer-certified (PE-certified) Statistical Analysis Method Certification (October 2017, revised January 2020) (Environmental Resource Management, 2017 and Geosyntec, 2020a). The Sanitas groundwater statistical software was used to perform the statistical analyses. Sanitas is a decision-support software package that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the USEPA document *Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance* (Unified Guidance) (USEPA, 2009).

Appendix III statistical analysis was performed to assess if Appendix III constituents have returned to background levels. Appendix IV constituents were evaluated to assess if concentrations statistically exceeded the established GWPS. Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in the statistical analysis reports provided in **Appendix D** and summarized in Sections 4.1.1 and 4.1.2. The GWPS were finalized pursuant to § 257.95(d)(2) and presented in **Table 6**.

4.1.1 Appendix III Statistical Methods

Based on guidance from GA EPD, statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PLs) combined with a 1-of-2 verification resample plan for each of the Appendix III constituents. Interwell PLs pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the same limit for each constituent. The most recent sample from each downgradient well is compared to the background limit to assess whether there are statistically significant increases (SSIs). An "initial exceedance" occurs when an Appendix III constituent reported in the groundwater of a downgradient detection monitoring well exceeds the constituent's associated PL.

The 1-of-2 resample plan allows for collection of an independent resample. A confirmed exceedance is noted only when the resample confirms the initial exceedance by also exceeding the statistical limit. If the resample falls within its respective PL, no exceedance is declared.

4.1.2 Appendix IV Statistical Methods

To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix IV constituents in each downgradient detection and assessment monitoring well with a minimum of four samples. In accordance with Section 21.1.1 of the Unified Guidance (USEPA, 2009), four independent data are the minimum population size recommended to construct confidence intervals required to assess SSLs for Appendix IV constituents. Due to previous non-routine (or ACM investigation) sampling, some Appendix IV constituents at a well location have differing number of analytical data points.

The confidence intervals are compared to the GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its GWPS. If a confidence interval exceeds a GWPS, an SSL is identified.

USEPA revised the federal CCR Rule on July 30, 2018, updating GWPS for cobalt, lead, lithium, and molybdenum. As described in § 257.95(h)(1-3), the GWPS is defined by the below criteria. These criteria were adopted into the GA EPD Rules for Solid Waste Management 391-3-4-.10 on February 22, 2022.

- (1) The MCL established under § 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 0.04 mg/L; and
 - (iv) Molybdenum 0.1 mg/L.
- (3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

Following the above requirements, GWPS have been established for statistical comparison of Appendix IV constituents and are presented in **Table 6**.

4.2 Statistical Analyses Results

Based on review of the Appendix III statistical analyses presented in **Appendix D**, groundwater conditions have not returned to background and assessment monitoring should continue. Based on the statistical analyses, select Appendix IV constituents exceeded the GWPS during the annual reporting period.

4.2.1 January 2023 Data

- Arsenic: HGWC-13
- Molybdenum: HGWC-8

Wells with SSLs were further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix D**). No statistically significant trends were identified in January 2023.

4.2.2 August 2023 Data

- Arsenic: HGWC-13
- Molybdenum: HGWC-8

Wells with SSLs were further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix D**). No statistically significant trends were identified in August 2023.

4.2.3 Summary of Statistical Analyses

The SSLs identified for the annual reporting period are consistent with the 2022 annual reporting period.

5.0 NATURE AND EXTENT

Based on the groundwater data presented herein, the SSLs for wells and constituents identified in Section 4.2 have been horizontally and vertically delineated to below the established GWPS and are contained within the property boundary. Delineation is determined by confidence intervals (statistical analysis) prepared for the assessment wells discussed in the following paragraphs. Results of the statistical analyses are provided in **Appendix D**.

The identified SSL of arsenic in HGWC-13 is horizontally and vertically delineated to below the GWPS by MW-19 and MW-24D, respectively. Similarly, the SSL of molybdenum in HGWC-8 is horizontally and vertically delineated by MW-20 and MW-27D, respectively. The groundwater data from the January and August 2023 assessment monitoring events were used to generate the arsenic and molybdenum iso-concentration maps presented on **Figure 5** through **Figure 8**.

5.1 Alternate Source Demonstrations

An alternate source demonstration (ASD) was submitted to GA EPD on January 29, 2021, to address the fluoride and lithium SSLs reported for MW-30D, and molybdenum SSL reported for MW-40D (Geosyntec, 2021a). The ASD presented multiple lines of evidence that the SSLs are not associated with a release from AP-1, but are instead a result of natural variation in groundwater quality due to the limited (i.e., MW-30D) or no (i.e., MW-40D) connection these wells have to the uppermost aquifer as evidenced by (i) slow recharge encountered within the deeper delineation wells installed in less fractured bedrock zones; (ii) starkly different groundwater elevations in these wells compared to other site wells; and (iii) very different geochemical conditions. Additionally, all previous SSLs of molybdenum reported in MW-40D have at all times complied with the current GWPS of 0.1 mg/L.

An ASD to address the previous SSL of lithium identified in MW-25D was submitted to GA EPD in August 2022 (Geosyntec, 2022b). Geochemical evaluations using Piper and Stiff diagrams indicate that the chemical composition of groundwater sampled from well MW-25D shows no evidence of a CCR impact (i.e., as compared to the geochemistry of AP-1 pore water) and is similar to other deep background and slow recharge wells screened in bedrock (HGWA-43D, MW-30D, MW-40D). Secondly, all previous SSLs of lithium reported in MW-25D have at all times complied with the current GWPS of 0.064 mg/L.

6.0 MONITORING PROGRAM STATUS

6.1 Assessment Monitoring Status

Pursuant to § 257.96(b), Georgia Power will continue to monitor the groundwater at AP-1 in accordance with the assessment monitoring program regulations of § 257.95 while ACM efforts are implemented to address SSLs of arsenic and molybdenum in select AP-1 wells. Pursuant to § 257.95(g)(1)(iv), the assessment monitoring wells will continue to be sampled as part of the ongoing assessment groundwater monitoring program.

6.2 Assessment of Corrective Measures

A *Draft Remedy Selection Report* was submitted to GA EPD on August 31, 2022 (Geosyntec, 2022a), in lieu of the *Semiannual Remedy Selection and Design Progress Reports* (semiannual progress reports) previously included in the appendix of the routine groundwater monitoring and corrective action reports. The *Draft Remedy Selection Report* was submitted under separate cover and is currently being reviewed by GA EPD. The report summarizes:

- The current groundwater conceptual site model applicable to evaluating groundwater corrective measures proposed in the ACM Report (Geosyntec, 2019b);
- An evaluation of each corrective measure retained for further consideration following the completed investigations; and
- An evaluation of corrective measure options using the comparative criteria such as long- and short-term effectiveness and protectiveness, source control effectiveness, and ease of implementation. The *Draft Remedy Selection Report* presents geochemical approaches (in-situ injections) coupled with monitored natural attenuation as the proposed groundwater remedy for AP-1.

In the interim of GA EPD's review of the *Draft Remedy Selection Report*, the state agency issued a letter on September 23, 2022, stating their support for Georgia Power to initiate a pilot study at AP-1 to facilitate further remedy design. In June 2023, Georgia Power submitted to GA EPD both a Pilot Test Notification Form and separate workplans outlining the design and implementation of a pilot study in vicinity of HGWC-8 and HGWC-13 (Geosyntec, 2023a, 2023b). GA EPD's Underground Injection Control (UIC) Program approved the Pilot Test Notification Form on August 24, 2023. The *Pilot Study*

Post-Injection Event Report requested by GA EPD Wastewater Regulatory Program is included in **Appendix E**, and summarizes the well installation activities completed in June 2023, baseline sampling activities completed in July and August 2023, and injection activities completed in September and October 2023 (Geosyntec, 2023d). Additional laboratory reports and field logs associated with post-injection performance monitoring events and time series plots for the performance monitoring piezometers through November 2023 are included in Appendix E. The groundwater analytical results from the pilot study monitoring events through November 2023 are summarized in **Table 7**. Results received after November 2023 will be summarized in the next groundwater monitoring and corrective action report.

Updates concerning the pilot study results will be reported to GA EPD as brief summaries included as part of subsequent semiannual groundwater monitoring and corrective action reporting. A comprehensive technical memorandum will be prepared at the conclusion of the post-injection performance monitoring program associated with the pilot study for inclusion in a future semiannual groundwater monitoring report. This technical memorandum will summarize pilot study results and provide recommendations for the design and implementation of the full-scale groundwater remedy. If pilot study results support full-scale implementation, Georgia Power anticipates receiving written authorization from GA EPD to hold the public meeting with the selected remedy of geochemical approaches (in-situ injection) and monitored natural attenuation (MNA). After the public meeting, Georgia Power will revise the *Draft Remedy Selection Report*, incorporating results of the pilot study and public meeting comments.

6.3 Annual Potable Well Survey

An updated potable well survey of potential groundwater wells within a two-mile radius of AP-1 was conducted in November 2023 and consisted of reviewing federal, state, county records, and online sources. Surveys conducted by Environmental Data Resources (EDR) are included in **Appendix F**. Additional federal, state, county records and online sources outside of the EDR survey were also reviewed. The Floyd County Health Department does not permit or regulate private wells, and therefore had no update to provide for the survey. The findings from the 2023 well survey are consistent with the 2022 well survey (Geosyntec, 2023c).

7.0 CONCLUSIONS AND FUTURE ACTIONS

This *2023 Annual Groundwater Monitoring and Corrective Action Report* for Plant Hammond AP-1 was prepared to fulfill the requirements of the federal CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10. Statistical analyses of the groundwater monitoring data for AP-1 for the annual reporting period identified the continued presence of SSLs of arsenic and molybdenum in HGWC-13 and HGWC-8, respectively. Based on the most current groundwater quality, the SSLs are vertically and horizontally delineated to below their respective GWPS within the property boundary.

Georgia Power will continue to monitor AP-1 groundwater under the assessment monitoring program as aspects of the ACM program are implemented to address the Appendix IV SSLs. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022 (Geosyntec, 2022a). The next routine semiannual assessment monitoring event for AP-1 is tentatively scheduled for January 2024. Progress made regarding the pilot studies and corrective action design will be documented as a brief summary in the next groundwater monitoring and corrective action report. A comprehensive technical memorandum will be prepared at the conclusion of the post-injection performance monitoring program associated with the pilot study for inclusion in a future semiannual groundwater monitoring report.

8.0 REFERENCES

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TABLES

Table 1A
Monitoring Well Network Summary
Plant Hammond AP-1, Floyd County, Georgia

| Well ID | Hydraulic Location | Installation Date | Northing ⁽¹⁾ | Easting ⁽¹⁾ | Ground Surface Elevation (ft) | Top of Casing Elevation ⁽¹⁾ (ft) | Top of Screen Elevation ⁽¹⁾ (ft) | Bottom of Screen Elevation ⁽¹⁾ (ft) | Well Depth (ft BTOC) ⁽²⁾ | Screen Interval Length (ft) |
|-----------------------------------|--------------------|-------------------|-------------------------|------------------------|-------------------------------|---|---|--|-------------------------------------|-----------------------------|
| Detection Monitoring Well | | | | | | | | | | |
| HGWA-1 | Upgradient | 12/3/2014 | 1550423.32 | 1940770.00 | 592.32 | 595.21 | 573.12 | 563.12 | 32.49 | 10 |
| HGWA-2 | Upgradient | 12/2/2015 | 1549796.87 | 1939845.15 | 585.29 | 587.92 | 570.29 | 560.29 | 27.95 | 10 |
| HGWA-3 | Upgradient | 12/2/2015 | 1549794.41 | 1939833.39 | 585.23 | 587.74 | 553.23 | 543.23 | 44.51 | 10 |
| HGWA-43D | Upgradient | 8/26/2020 | 1550422.85 | 1940753.81 | 592.08 | 595.08 | 544.08 | 534.08 | 61.25 | 10 |
| HGWA-44D | Upgradient | 8/25/2020 | 1550409.13 | 1940756.19 | 592.01 | 594.79 | 491.76 | 481.76 | 113.50 | 10 |
| HGWC-7 | Downgradient | 12/3/2015 | 1549520.67 | 1942319.75 | 576.55 | 579.18 | 561.55 | 551.55 | 27.96 | 10 |
| HGWC-8 | Downgradient | 12/8/2015 | 1549114.61 | 1942392.56 | 577.14 | 579.82 | 564.64 | 554.64 | 25.51 | 10 |
| HGWC-9 | Downgradient | 12/9/2015 | 1548693.30 | 1942215.03 | 577.72 | 580.36 | 543.72 | 533.72 | 46.97 | 10 |
| HGWC-10 | Downgradient | 12/8/2015 | 1548469.25 | 1941644.43 | 576.76 | 579.37 | 566.76 | 556.76 | 22.94 | 10 |
| HGWC-11 | Downgradient | 12/15/2015 | 1548477.91 | 1941146.79 | 578.12 | 580.67 | 565.19 | 555.19 | 25.78 | 10 |
| HGWC-12 | Downgradient | 12/9/2015 | 1548476.53 | 1941152.34 | 578.14 | 580.73 | 555.64 | 545.64 | 35.42 | 10 |
| HGWC-13 | Downgradient | 12/10/2015 | 1548628.03 | 1940900.60 | 592.94 | 595.76 | 560.94 | 550.94 | 45.15 | 10 |
| Assessment Monitoring Well | | | | | | | | | | |
| MW-5 | Downgradient | 11/4/2014 | 1548436.02 | 1942448.85 | 578.00 | 581.14 | 560.70 | 550.70 | 30.84 | 10 |
| MW-6 | Downgradient | 11/4/2014 | 1548383.12 | 1941689.01 | 579.18 | 581.84 | 559.28 | 549.28 | 32.96 | 10 |
| MW-7 | Downgradient | 10/30/2014 | 1548230.47 | 1941087.44 | 574.94 | 577.73 | 561.24 | 551.24 | 26.89 | 10 |
| MW-19 | Downgradient | 9/26/2018 | 1548422.94 | 1940943.01 | 577.46 | 580.65 | 561.45 | 551.45 | 29.53 | 10 |
| MW-20 | Downgradient | 9/27/2018 | 1549029.68 | 1942736.85 | 575.96 | 579.00 | 554.96 | 544.96 | 34.37 | 10 |
| MW-24D | Downgradient | 11/7/2018 | 1548638.80 | 1940900.37 | 592.91 | 595.68 | 532.91 | 522.91 | 72.77 | 10 |
| MW-25D | Downgradient | 11/6/2018 | 1548473.00 | 1941162.20 | 577.71 | 580.59 | 527.71 | 517.71 | 63.21 | 10 |
| MW-26D | Downgradient | 11/14/2018 | 1548699.91 | 1942222.36 | 577.63 | 580.41 | 512.63 | 502.63 | 78.11 | 10 |
| MW-27D | Downgradient | 11/8/2018 | 1549103.57 | 1942390.80 | 576.84 | 579.70 | 526.84 | 516.84 | 63.19 | 10 |
| MW-28D | Downgradient | 11/13/2018 | 1549510.90 | 1942321.14 | 576.20 | 579.08 | 531.20 | 521.20 | 58.21 | 10 |
| MW-29 | Downgradient | 11/13/2018 | 1549437.67 | 1942633.60 | 572.14 | 575.06 | 557.14 | 547.14 | 28.25 | 10 |

Notes:

ft = feet

ft BTOC = feet below top of casing

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey data certified by GEL Solutions May 19, 2020. Survey data for HGWA-43D and HGWA-44D certified by GEL Solutions September 10, 2020.

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

Table 1B
Piezometer Network Summary
Plant Hammond AP-1, Floyd County, Georgia

| Well ID | Hydraulic Location | Installation Date | Northing ⁽¹⁾ | Easting ⁽¹⁾ | Ground Surface Elevation (ft) | Top of Casing Elevation ⁽¹⁾ (ft) | Top of Screen Elevation ⁽¹⁾ (ft) | Bottom of Screen Elevation ⁽¹⁾ (ft) | Well Depth (ft BTOC) ⁽²⁾ | Screen Interval Length (ft) |
|---------|--------------------|-------------------|-------------------------|------------------------|-------------------------------|---|---|--|-------------------------------------|-----------------------------|
| AP1A-1 | Upgradient | 12/15/2015 | 1550080.01 | 1941614.12 | 584.78 | 587.44 | 575.84 | 565.84 | 21.93 | 10 |
| MW-1 | Upgradient | 12/2/2014 | 1549938.24 | 1941589.06 | 585.63 | 588.66 | 567.93 | 557.93 | 31.06 | 10 |
| MW-8 | Downgradient | 10/29/2014 | 1548171.86 | 1940016.70 | 584.25 | 586.93 | 565.05 | 555.05 | 32.72 | 10 |
| MW-30D | Downgradient | 6/19/2019 | 1549530.00 | 1942318.45 | 576.20 | 578.59 | 481.20 | 471.20 | 107.72 | 10 |
| MW-40D | Downgradient | 4/29/2020 | 1549542.29 | 1942316.55 | 576.41 | 578.92 | 450.41 | 440.41 | 138.84 | 10 |
| MW-53 | Downgradient | 6/2/2023 | 1548835.51 | 1942399.62 | 577.64 | 580.59 | 554.54 | 544.54 | 36.45 | 10 |
| MW-54 | Downgradient | 6/2/2023 | 1548699.51 | 1940805.03 | 592.98 | 592.66 | 564.98 | 554.98 | 38.30 | 10 |
| PT-07 | Downgradient | 6/3/2023 | 1548675.24 | 1940933.39 | 592.00 | 591.75 | 554.40 | 544.40 | 47.99 | 10 |
| PT-08 | Downgradient | 6/3/2023 | 1548666.82 | 1940929.58 | 592.10 | 591.83 | 560.20 | 550.20 | 42.32 | 10 |
| PT-09 | Downgradient | 6/1/2023 | 1549049.74 | 1942393.11 | 577.33 | 580.35 | 560.18 | 550.18 | 30.47 | 10 |
| PT-10 | Downgradient | 6/1/2023 | 1549040.34 | 1942413.88 | 577.39 | 580.44 | 560.29 | 550.29 | 30.45 | 10 |

Notes:

ft = feet

ft BTOC = feet below top of casing

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey data certified by GEL Solutions May 19, 2020. Survey data for MW-53, MW-54, PT-07 through PT-10 certified by GEL Solutions July 17, 2023, and August 30, 2023.

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

Table 2
Groundwater Sampling Event Summary
Plant Hammond AP-1, Floyd County, Georgia

| Well ID | Hydraulic Location | January 23 - February 1, 2023 | August 8-13, 2023 | October 31, 2023 | Status of Monitoring Well |
|--|--------------------|-------------------------------|-------------------|-----------------------|---------------------------|
| Purpose of Sampling Event: | | Assessment | Assessment | Confirmation sampling | |
| <i>Detection Monitoring Well</i> | | | | | |
| HGWA-1 | Upgradient | X | X | -- | Assessment |
| HGWA-2 | Upgradient | X | X | -- | Assessment |
| HGWA-3 | Upgradient | X | X | -- | Assessment |
| HGWA-43D | Upgradient | X | X | -- | Assessment |
| HGWA-44D | Upgradient | X | X | -- | Assessment |
| HGWC-7 | Downgradient | X | X | -- | Assessment |
| HGWC-8 | Downgradient | X | X | -- | Assessment |
| HGWC-9 | Downgradient | X | X | -- | Assessment |
| HGWC-10 | Downgradient | X | X | -- | Assessment |
| HGWC-11 | Downgradient | X | X | -- | Assessment |
| HGWC-12 | Downgradient | X | X | -- | Assessment |
| HGWC-13 | Downgradient | X | X | -- | Assessment |
| <i>Assessment Monitoring Well</i> | | | | | |
| MW-5 | Downgradient | X | X | -- | Assessment |
| MW-6 | Downgradient | X | X | -- | Assessment |
| MW-7 | Downgradient | X | X | -- | Assessment |
| MW-19 | Downgradient | X | X | -- | Assessment |
| MW-20 | Downgradient | X | X | -- | Assessment |
| MW-24D | Downgradient | X | X | -- | Assessment |
| MW-25D | Downgradient | X | X | -- | Assessment |
| MW-26D | Downgradient | X | X | -- | Assessment |
| MW-27D | Downgradient | X | X | -- | Assessment |
| MW-28D | Downgradient | X | X | X | Assessment |
| MW-29 | Downgradient | X | X | -- | Assessment |

Table 3
Summary of Groundwater and Surface Water Elevations
Plant Hammond AP-1, Floyd County, Georgia

| Well ID | Top of Casing Elevation ⁽¹⁾ (ft) | January 23, 2023 | | August 7, 2023 | |
|---|---|--------------------------|---|--------------------------|---|
| | | Depth to Water (ft BTOC) | Groundwater Elevation ⁽¹⁾ (ft) | Depth to Water (ft BTOC) | Groundwater Elevation ⁽¹⁾ (ft) |
| <i>Detection Monitoring Well</i> | | | | | |
| HGWA-1 | 595.21 | 10.25 | 584.96 | 22.06 | 573.15 |
| HGWA-2 | 587.92 | 8.05 | 579.87 | 14.68 | 573.24 |
| HGWA-3 | 587.74 | 7.50 | 580.24 | 14.44 | 573.30 |
| HGWA-43D | 595.08 | 10.23 | 584.85 | 21.90 | 573.18 |
| HGWA-44D | 594.79 | 10.96 | 583.83 | 21.54 | 573.25 |
| HGWC-7 | 579.18 | 6.33 | 572.85 | 13.56 | 565.62 |
| HGWC-8 | 579.82 | 7.90 | 571.92 | 14.43 | 565.39 |
| HGWC-9 | 580.36 | 14.85 | 565.51 | 16.11 | 564.25 |
| HGWC-10 | 579.37 | 13.16 | 566.21 | 14.90 | 564.47 |
| HGWC-11 | 580.67 | 16.43 | 564.24 | 16.50 | 564.17 |
| HGWC-12 | 580.73 | 16.50 | 564.23 | 16.54 | 564.19 |
| HGWC-13 | 595.76 | 24.68 | 571.08 | 27.65 | 568.11 |
| <i>Assessment Monitoring Well</i> | | | | | |
| MW-5 | 581.14 | 16.67 | 564.47 | 17.35 | 563.79 |
| MW-6 | 581.84 | 17.11 | 564.73 | 17.60 | 564.24 |
| MW-7 | 577.73 | 14.40 | 563.33 | 13.80 | 563.93 |
| MW-19 | 580.65 | 13.68 | 566.97 | 15.24 | 565.41 |
| MW-20 | 579.00 | 12.95 | 566.05 | 15.22 | 563.78 |
| MW-24D | 595.68 | 29.15 | 566.53 | 30.20 | 565.48 |
| MW-25D | 580.59 | 16.37 | 564.22 | 16.40 | 564.19 |
| MW-26D | 580.41 | 14.95 | 565.46 | 16.05 | 564.36 |
| MW-27D | 579.70 | 8.07 | 571.63 | 14.28 | 565.42 |
| MW-28D | 579.08 | 8.25 | 570.83 | 13.41 | 565.67 |
| MW-29 | 575.06 | 4.36 | 570.70 | 17.28 | 557.78 |
| <i>Piezometer</i> | | | | | |
| APIA-1 | 587.44 | 5.94 | 581.50 | 13.73 | 573.71 |
| MW-1 | 588.66 | 7.22 | 581.44 | 15.22 | 573.44 |
| MW-8 | 586.93 | 19.14 | 567.79 | 20.80 | 566.13 |
| MW-30D | 578.59 | 5.90 | 572.69 | 10.40 | 568.19 |
| MW-40D | 578.92 | 115.42 | 463.50 | 110.20 | 468.72 |
| MW-53 | 580.59 | -- | -- | 16.05 | 564.54 |
| MW-54 | 592.66 | -- | -- | 24.10 | 568.56 |
| PT-07 | 591.75 | -- | -- | 26.10 | 565.65 |
| PT-08 | 591.83 | -- | -- | 23.52 | 568.31 |
| PT-09 | 580.35 | -- | -- | 15.00 | 565.35 |
| PT-10 | 580.44 | -- | -- | 15.10 | 565.34 |
| <i>Surface Water Level Gauge Point</i> | | | | | |
| Coosa River | -- | -- | 560.40 | -- | 564.10 |

Notes:

-- = not applicable

ft = feet

ft BTOC = feet below top of casing

(1) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey data certified by GEL Solutions May 19, 2020. Survey data for HGWA-43D and HGWA-44D certified by GEL Solutions September 10, 2020. Survey data for MW-53, MW-54, PT-07 through PT-10 certified by GEL Solutions July 17, 2023, and August 30, 2023.

Table 4
Horizontal Groundwater Gradient and Flow Velocity Calculations
Plant Hammond AP-1, Floyd County, Georgia

| Flow Path Direction ⁽¹⁾ | January 23, 2023 | | | | August 7, 2023 | | | | Average i (ft/ft) |
|---------------------------------------|------------------------|------------------------|-----------|--------------|------------------------|------------------------|-----------|--------------|----------------------|
| | h ₁ (ft) | h ₂ (ft) | L (ft) | i (ft/ft) | h ₁ (ft) | h ₂ (ft) | L (ft) | i (ft/ft) | |
| Southerly Flow Path (HGWC-13 to MW-7) | 571.08 | 563.33 | 450 | 0.017 | 568.11 | 563.93 | 433 | 0.010 | 0.013 |
| Easterly Flow Path (HGWC-8 to MW-20) | 571.92 | 566.05 | 350 | 0.017 | 565.39 | 563.78 | 363 | 0.004 | 0.011 |

| Flow Path Direction ⁽¹⁾ | K _h (ft/day) | n _e | Averaged for 2023 | | |
|---------------------------------------|----------------------------|----------------|-------------------|------------------------------|------------------------------|
| | | | i (ft/ft) | V (ft/day) ⁽²⁾ | V (ft/day) ⁽³⁾ |
| Southerly Flow Path (HGWC-13 to MW-7) | 11.82 | 0.15 | 0.013 | 1.1 | 0.9 |
| Easterly Flow Path (HGWC-8 to MW-20) | 11.82 | 0.15 | 0.011 | 0.8 | |

Notes:

ft = feet

ft/day = feet per day

ft/ft = feet per foot

h₁ and h₂ = groundwater elevation at location 1 and 2

i = h₁-h₂/L = horizontal hydraulic gradient

K_h = horizontal hydraulic conductivity

L = distance between location 1 and 2 along the flow path

n_e = effective porosity

V = groundwater flow velocity

(1) Flow path direction relative to the orientation of AP-1 and illustrated on Figures 3 and 4 of associated report.

(2) Groundwater flow velocity equation: $V = [K_h * i] / n_e$

(3) Average groundwater flow velocity for unit.

Table 5
Summary of Assessment Monitoring Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

| Well ID: | HGWA-1 | HGWA-1 | HGWA-2 | HGWA-2 | HGWA-3 | HGWA-3 | HGWA-43D | HGWA-43D | HGWA-44D | HGWA-44D | HGWC-7 | HGWC-7 | HGWC-8 | HGWC-8 | HGWC-9 | HGWC-9 | |
|------------------------------|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|
| Sample Date: | 1/24/2023 | 8/8/2023 | 1/24/2023 | 8/8/2023 | 1/23/2023 | 8/8/2023 | 1/24/2023 | 8/8/2023 | 1/24/2023 | 8/8/2023 | 1/27/2023 | 8/12/2023 | 2/1/2023 | 8/12/2023 | 1/26/2023 | 8/11/2023 | |
| Parameter ^(1,2,3) | | | | | | | | | | | | | | | | | |
| APPENDIX III | Boron | 0.015 J | 0.023 J | 0.046 | 0.060 | 0.012 J | 0.011 J | 0.037 J | 0.038 J | 0.44 | 0.55 | 0.93 | 0.82 | 1.9 | 1.7 | 1.9 | 2.1 |
| | Calcium | 117 | 118 | 29.4 | 30.7 | 85.0 | 78.3 | 56.6 | 52.8 | 13.2 | 8.1 | 124 | 101 | 110 | 122 | 173 | 168 |
| | Chloride | 9.0 | 26.0 | 7.1 | 6.6 | 5.6 | 5.3 | 4.3 | 3.5 | 24.9 | 27.0 | 40.0 | 33.3 | 52.4 | 53.1 | 86.9 | 78.9 |
| | Fluoride | 0.089 J | 0.088 J | 0.053 J | 0.070 J | 0.061 J | 0.055 J | 0.23 | 0.18 | 1.3 | 1.3 | 0.10 | 0.071 J | 0.40 | 0.59 | 0.11 | 0.12 |
| | pH | 6.76 | 7.05 | 5.23 | 5.01 | 7.32 | 7.42 | 7.56 | 7.39 | 8.22 | 8.20 | 7.25 | 7.36 | 6.60 | 6.84 | 7.07 | 7.09 |
| | Sulfate | 48.3 | 67.7 | 79.7 | 89.9 | 39.5 | 35.0 | 34.7 | 25.6 | 10.1 | 1.3 | 119 | 84.2 | 179 | 170 | 217 | 197 |
| | TDS | 369 | 457 | 164 | 189 | 293 | 285 | 271 | 274 | 363 | 361 | 473 | 378 | 528 | 564 | 745 | 757 |
| APPENDIX IV | Antimony | <0.00078 | <0.0012 | <0.00078 | <0.0012 | <0.00078 | <0.0012 | <0.00078 | <0.0012 | <0.00078 | <0.0012 | <0.00078 | <0.0012 | <0.00078 | <0.0012 | 0.00092 J | <0.0012 |
| | Arsenic | <0.0022 | <0.0037 | <0.0022 | <0.0037 | <0.0022 | <0.0037 | <0.0022 | <0.0037 | 0.0027 J | <0.0037 | <0.0022 | <0.0037 | <0.0022 | <0.0037 | <0.0022 | <0.0037 |
| | Barium | 0.033 | 0.039 | 0.088 | 0.068 | 0.13 | 0.12 | 0.28 | 0.30 | 0.18 | 0.12 | 0.065 | 0.060 | 0.058 | 0.052 | 0.069 | 0.068 |
| | Beryllium | <0.000054 | <0.000054 | 0.00016 J | 0.00022 J | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | 0.000056 J | <0.000054 | <0.000054 | <0.000054 |
| | Cadmium | <0.00011 | <0.00011 | 0.00021 J | 0.00026 J | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | 0.00019 J | <0.00011 | 0.00014 J | 0.00044 J | <0.00011 | <0.00011 |
| | Chromium | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | 0.0014 J | <0.0011 | <0.0055 | <0.0011 | 0.0013 J | <0.0011 |
| | Cobalt | <0.00039 | 0.00080 J | 0.024 | 0.029 | <0.00039 | <0.00039 | <0.00039 | <0.00039 | <0.00039 | <0.00039 | 0.00067 J | 0.00061 J | <0.002 | 0.0016 J | 0.00068 J | 0.00057 J |
| | Fluoride | 0.089 J | 0.088 J | 0.053 J | 0.070 J | 0.061 J | 0.055 J | 0.23 | 0.18 | 1.3 | 1.3 | 0.10 | 0.071 J | 0.40 | 0.59 | 0.11 | 0.12 |
| | Lead | <0.00089 | <0.00012 | <0.00089 | <0.00012 | <0.00089 | <0.00012 | <0.00089 | <0.00012 | <0.00089 | <0.00012 | <0.00089 | <0.00012 | <0.00089 | <0.00012 | <0.00089 | <0.00012 |
| | Lithium | 0.00092 J | <0.00073 | 0.0014 J | 0.0017 J | 0.003 J | 0.0031 J | 0.002 J | 0.0021 J | 0.064 | 0.092 | 0.0018 J | 0.0023 J | 0.0015 J | 0.0014 J | 0.0032 J | 0.0035 J |
| | Mercury | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 |
| | Molybdenum | <0.00074 | <0.00074 | <0.00074 | <0.00074 | <0.00074 | <0.00074 | 0.0027 J | 0.0019 J | 0.0026 J | 0.0013 J | 0.039 | 0.033 | 0.29 | 0.34 | 0.021 | 0.030 |
| | Comb. Radium 226/228 | 0.549 U | 0.195 U | 0.829 U | 0.175 U | 0.311 U | 0.411 U | 1.25 | 0.503 U | 0.421 U | 0.163 U | 0.45 U | 0.729 U | 0.241 U | 0.767 U | 0.516 U | 0.867 U |
| Selenium | <0.0014 | <0.0014 | <0.0014 | 0.0019 J | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | |
| Thallium | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | |
| GEOCHEM | Bicarbonate Alkalinity | -- | 331 | -- | 20.2 | -- | 212 | -- | 251 | -- | 279 | -- | 210 | -- | 145 | -- | 204 |
| | Iron | -- | 0.35 | -- | 0.29 | -- | 0.87 | -- | 0.29 | -- | 0.065 | -- | 0.073 | -- | 0.058 | -- | 0.052 |
| | Magnesium | -- | 4.7 | -- | 4.3 | -- | 5.2 | -- | 17.7 | -- | 3.9 | -- | 9.6 | -- | 17.3 | -- | 17.5 |
| | Manganese | -- | 0.29 | -- | 0.90 | -- | 0.24 | -- | 0.017 J | -- | <0.011 | -- | 0.20 | -- | 0.30 | -- | 0.57 |
| | Potassium | -- | 0.79 | -- | 1.1 | -- | 0.45 J | -- | 0.86 | -- | 2.6 | -- | 2.1 | -- | 7.6 | -- | 3.4 |
| | Sodium | -- | 37.0 | -- | 10.9 | -- | 5.6 | -- | 22.2 | -- | 135 | -- | 12.7 | -- | 9.7 | -- | 12.3 |
| | Sulfide | -- | 0.043 J | -- | <0.022 | -- | <0.022 | -- | <0.022 | -- | 0.14 | -- | <0.022 | -- | <0.022 | -- | <0.022 |

Notes:

-- = Parameter was not analyzed.

< = Indicates the parameter was not detected above the analytical method detection limit (MDL).

J = Indicates the parameter was estimated a detected between the MDL a the reporting limit (RL).

TDS = Total dissolved solids

U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228).

(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).

(2) Metals were analyzed by EPA Methods 6010D, 6020B and 7470A, anions were analyzed by EPA Method 300.0 Rev 2.1, ions were analyzed by EPA Method 6010D, alkalinity was analyzed by SM2320B, sulfide was analyzed by SM4500-S2D,

TDS was analyzed by SM2540C, and combined radium by EPA Methods 9315/9320.

(3) The pH value presented was recorded at the time of sample collection in the field.

(4) MW-28D was resampled on October 31, 2023 to confirm elevated Barium concentrations observed during the August 2023 sampling event.

Table 5
Summary of Assessment Monitoring Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

| Well ID: | | HGWC-10 | HGWC-10 | HGWC-11 | HGWC-11 | HGWC-12 | HGWC-12 | HGWC-13 | HGWC-13 | MW-5 | MW-5 | MW-6 | MW-6 | MW-7 | MW-7 | MW-19 | MW-19 |
|------------------------------|------------------------|-----------|-----------|-----------|------------|-----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sample Date: | | 1/27/2023 | 8/10/2023 | 1/26/2023 | 8/10/2023 | 1/26/2023 | 8/10/2023 | 1/26/2023 | 8/12/2023 | 1/26/2023 | 8/10/2023 | 1/26/2023 | 8/10/2023 | 1/26/2023 | 8/10/2023 | 1/26/2023 | 8/10/2023 |
| Parameter ^(1,2,3) | | | | | | | | | | | | | | | | | |
| APPENDIX III | Boron | 0.065 | 0.65 | 0.50 | 0.44 | 1.5 | 1.4 | 0.83 | 1.0 | 0.044 | 0.037 J | 0.71 | 0.65 | 0.033 J | 0.13 | 0.36 | 0.53 |
| | Calcium | 60.4 | 155 | 113 | 100 | 154 | 156 | 234 | 172 | 76.1 | 99.7 | 180 | 179 | 21.6 | 81.2 | 118 | 127 |
| | Chloride | 1.6 | 13.4 | 8.8 | 6.5 | 34.6 | 30.6 | 12.5 | 15.3 | 0.86 J | 0.86 J | 30.5 | 26.9 | 1.2 | 3.3 | 7.7 | 11.2 |
| | Fluoride | 0.16 | 0.050 J | 0.20 | 0.15 | 0.21 | 0.17 | 0.40 | 0.32 | 0.087 J | 0.066 J | 0.088 J | 0.053 J | 0.06 J | <0.050 | 0.098 J | 0.14 |
| | pH | 6.89 | 6.81 | 6.24 | 5.90 | 7.10 | 7.08 | 6.90 | 6.89 | 6.07 | 6.29 | 6.90 | 6.85 | 6.23 | 6.85 | 6.13 | 6.37 |
| | Sulfate | 37.3 | 128 | 209 | 190 | 228 | 209 | 495 | 347 | 137 | 137 | 203 | 174 | 26.0 | 67.3 | 214 | 210 |
| | TDS | 188 | 504 | 429 | 438 | 624 | 683 | 962 | 803 | 363 | 423 | 646 | 626 | 89.0 | 305 | 490 | 524 |
| APPENDIX IV | Antimony | <0.00078 | <0.0012 | <0.00078 | <0.0012 | <0.00078 | <0.0012 | <0.00078 | <0.0012 | <0.00078 | <0.0012 | <0.00078 | <0.0012 | <0.00078 | <0.0012 | <0.00078 | <0.0012 |
| | Arsenic | <0.0022 | <0.0037 | <0.0022 | <0.0037 | 0.0025 J | <0.0037 | 0.53 | 0.54 | <0.0022 | <0.0037 | <0.0022 | <0.0037 | <0.0022 | <0.0037 | <0.0022 | <0.0037 |
| | Barium | 0.041 | 0.045 | 0.031 | 0.027 | 0.076 | 0.075 | 0.079 | 0.057 | 0.05 | 0.048 | 0.079 | 0.066 | 0.044 | 0.059 | 0.039 | 0.032 |
| | Beryllium | <0.000054 | <0.000054 | <0.000054 | 0.000069 J | <0.000054 | <0.000054 | 0.000099 J | 0.00010 J | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 |
| | Cadmium | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 |
| | Chromium | 0.0012 J | <0.0011 | 0.0012 J | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | 0.0032 J | 0.0020 J | 0.0014 J | <0.0011 | 0.0017 J | 0.0015 J | 0.0011 J | <0.0011 |
| | Cobalt | <0.00039 | <0.00039 | <0.00039 | <0.00039 | 0.0012 J | 0.0012 J | 0.012 | 0.018 | <0.00039 | <0.00039 | 0.00044 J | 0.00041 J | <0.00039 | <0.00039 | 0.022 | 0.027 |
| | Fluoride | 0.16 | 0.050 J | 0.20 | 0.15 | 0.21 | 0.17 | 0.40 | 0.32 | 0.087 J | 0.066 J | 0.088 J | 0.053 J | 0.06 J | <0.050 | 0.098 J | 0.14 |
| | Lead | <0.00089 | <0.00012 | <0.00089 | <0.00012 | <0.00089 | <0.00012 | <0.00089 | <0.00012 | <0.00089 | <0.00012 | <0.00089 | <0.00012 | <0.00089 | <0.00012 | <0.00089 | <0.00012 |
| | Lithium | <0.00073 | <0.00073 | <0.00073 | <0.00073 | 0.0058 J | 0.0075 J | 0.04 | 0.051 | <0.00073 | <0.00073 | <0.00073 | <0.00073 | <0.00073 | <0.00073 | 0.0038 J | 0.011 J |
| | Mercury | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 |
| | Molybdenum | <0.00074 | 0.0014 J | 0.022 | 0.014 | 0.048 | 0.050 | 0.023 | 0.016 | <0.00074 | <0.00074 | 0.0029 J | 0.0026 J | <0.00074 | 0.0022 J | 0.012 | 0.033 |
| | Comb. Radium 226/228 | 1.2 | 0.831 U | 0.441 U | 0.273 U | 0.877 | 0.453 U | 0.719 | 0.58 U | 0.909 | 0.599 U | 0.493 U | 0.839 U | 0.318 U | 0.239 U | 0.333 U | 0.437 U |
| Selenium | 0.0035 J | <0.0014 | 0.01 | 0.0089 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | 0.0045 J | 0.0020 J | <0.0014 | <0.0014 | <0.0014 | <0.0014 | 0.0056 | 0.0038 J | |
| Thallium | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | 0.00031 J | 0.00028 J | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | |
| GEOCHEM | Bicarbonate Alkalinity | -- | 270 | -- | 80.0 | -- | 199 | -- | 145 | -- | 179 | -- | 298 | -- | 175 | -- | 133 |
| | Iron | -- | <0.025 | -- | <0.025 | -- | 0.028 J | -- | 6.9 | -- | <0.025 | -- | 0.23 | -- | <0.025 | -- | <0.025 |
| | Magnesium | -- | 10.8 | -- | 11.8 | -- | 14.7 | -- | 19.2 | -- | 10.9 | -- | 13.4 | -- | 6.9 | -- | 12.5 |
| | Manganese | -- | 0.33 | -- | <0.011 | -- | 1.5 | -- | 9.0 | -- | <0.011 | -- | 0.43 | -- | <0.011 | -- | 3.2 |
| | Potassium | -- | 2.2 | -- | 2.6 | -- | 7.4 | -- | 5.9 | -- | 1.0 | -- | 1.3 | -- | 0.74 | -- | 3.1 |
| | Sodium | -- | 9.4 | -- | 5.9 | -- | 8.3 | -- | 6.9 | -- | 19.5 | -- | 13.0 | -- | 7.1 | -- | 5.5 |
| Sulfide | -- | <0.022 | -- | <0.022 | -- | <0.022 | -- | <0.022 | -- | <0.022 | -- | <0.022 | -- | <0.022 | -- | <0.022 | |

Table 5
Summary of Assessment Monitoring Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

| Well ID: | | MW-20 | MW-20 | MW-24D | MW-24D | MW-25D | MW-25D | MW-26D | MW-26D | MW-27D | MW-27D | MW-28D | MW-28D | MW-28D ⁽⁴⁾ | MW-29 | MW-29 | |
|------------------------------|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------------|-----------|-----------|-----------|
| Sample Date: | | 1/26/2023 | 8/10/2023 | 1/26/2023 | 8/12/2023 | 1/26/2023 | 8/10/2023 | 1/26/2023 | 8/11/2023 | 1/27/2023 | 8/12/2023 | 1/26/2023 | 8/11/2023 | 10/31/2023 | 1/26/2023 | 8/10/2023 | |
| Parameter ^(1,2,3) | | | | | | | | | | | | | | | | | |
| APPENDIX III | Boron | 0.099 | 0.10 | 0.47 | 0.55 | 0.30 | 0.31 | 1.8 | 1.6 | 0.12 | 0.13 | 0.29 | 0.12 | -- | 1.0 | 1.1 | |
| | Calcium | 122 | 123 | 107 | 105 | 21.8 | 86.1 | 179 | 152 | 28.1 | 27.8 | 64.4 | 49.6 | -- | 146 | 147 | |
| | Chloride | 30.0 | 28.4 | 38.0 | 35.1 | 17.2 | 13.6 | 83.6 | 87.6 | 32.5 | 29.0 | 27.7 | 17.0 | -- | 62.4 | 56.1 | |
| | Fluoride | 0.081 J | <0.050 | 0.083 J | 0.080 J | 1.6 | 1.5 | 0.11 | 0.083 J | 0.30 | 0.26 | 0.22 | 0.26 | -- | 0.068 J | <0.050 | |
| | pH | 6.95 | 6.86 | 7.61 | 7.61 | 7.74 | 7.73 | 7.14 | 7.20 | 7.80 | 7.80 | 7.67 | 7.50 | 7.57 | 7.23 | 7.06 | |
| | Sulfate | 109 | 100 | 152 | 146 | 0.59 J | 0.62 J | 240 | 159 | 9.1 | 7.6 | 40.8 | 15.4 | -- | 161 | 134 | |
| | TDS | 482 | 429 | 412 | 449 | 346 | 325 | 741 | 706 | 255 | 238 | 349 | 296 | -- | 632 | 564 | |
| APPENDIX IV | Antimony | <0.00078 | <0.0012 | <0.00078 | <0.0012 | <0.00078 | <0.0012 | <0.00078 | <0.0012 | <0.00078 | <0.0012 | <0.00078 | <0.0012 | -- | <0.00078 | <0.0012 | |
| | Arsenic | <0.0022 | <0.0037 | <0.0022 | <0.0037 | <0.0022 | <0.0037 | <0.0022 | <0.0037 | <0.0022 | <0.0037 | <0.0022 | <0.0037 | -- | <0.0022 | <0.0037 | |
| | Barium | 0.097 | 0.093 | 0.054 | 0.053 | 0.65 | 0.71 | 0.065 | 0.059 | 0.94 | 0.98 | 0.80 | 2.2 | 2.5 | 0.076 | 0.066 | |
| | Beryllium | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | -- | <0.000054 | <0.000054 |
| | Cadmium | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | -- | <0.00011 | <0.00011 |
| | Chromium | <0.0011 | <0.0011 | <0.0011 | <0.0011 | 0.0012 J | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | -- | <0.0011 | <0.0011 |
| | Cobalt | <0.00039 | <0.00039 | <0.00039 | <0.00039 | <0.00039 | <0.00039 | 0.00051 J | <0.00039 | <0.00039 | <0.00039 | <0.00039 | <0.00039 | <0.00039 | -- | 0.00056 J | <0.00039 |
| | Fluoride | 0.081 J | <0.050 | 0.083 J | 0.080 J | 1.6 | 1.5 | 0.11 | 0.083 J | 0.30 | 0.26 | 0.22 | 0.26 | -- | 0.068 J | <0.050 | |
| | Lead | <0.00089 | <0.00012 | <0.00089 | <0.00012 | <0.00089 | <0.00012 | <0.00089 | <0.00012 | <0.00089 | <0.00012 | <0.00089 | <0.00012 | -- | <0.00089 | <0.00012 | |
| | Lithium | <0.00073 | <0.00073 | 0.0025 J | 0.0030 J | 0.036 | 0.038 | 0.0031 J | 0.0029 J | 0.0072 J | 0.0072 J | 0.011 J | 0.016 J | -- | 0.0019 J | 0.0019 J | |
| | Mercury | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | 0.00013 J | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | -- | <0.00013 | 0.00017 J | |
| | Molybdenum | <0.00074 | <0.00074 | 0.0012 J | 0.0019 J | <0.00074 | <0.00074 | 0.028 | 0.014 | 0.0014 J | 0.0019 J | 0.0025 J | 0.0011 J | -- | 0.0029 J | 0.0030 J | |
| | Comb. Radium 226/228 | 0.561 U | 0.469 U | 0.0906 U | 0.481 U | 1.1 | 0.972 | 0.386 U | 0.55 U | 1.1 | 0.645 U | 0.821 | 2.66 | -- | 0.793 U | 0.244 U | |
| | Selenium | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | -- | <0.0014 | <0.0014 |
| Thallium | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | -- | <0.00018 | <0.00018 | | |
| GEOCHEM | Bicarbonate Alkalinity | -- | 249 | -- | 105 | -- | 304 | -- | 177 | -- | 181 | -- | 269 | -- | -- | 208 | |
| | Iron | -- | 2.7 | -- | 0.19 | -- | 1.9 | -- | 0.11 | -- | 0.29 | -- | 0.034 J | -- | -- | 0.049 | |
| | Magnesium | -- | 8.8 | -- | 6.3 | -- | 8.8 | -- | 15.5 | -- | 18.1 | -- | 26.7 | -- | -- | 11.9 | |
| | Manganese | -- | 0.13 | -- | 0.062 | -- | 0.016 J | -- | 0.13 | -- | 0.11 | -- | <0.011 | -- | -- | 0.86 | |
| | Potassium | -- | 0.26 J | -- | 0.68 | -- | 0.47 J | -- | 1.9 | -- | 0.88 | -- | 1.4 | -- | -- | 1.2 | |
| | Sodium | -- | 12.2 | -- | 12.5 | -- | 111 | -- | 12.9 | -- | 31.5 | -- | 24.3 | -- | -- | 12.7 | |
| | Sulfide | -- | 0.024 J | -- | <0.022 | -- | 0.16 | -- | <0.022 | -- | <0.022 | -- | 3.5 | -- | -- | <0.022 | |

Table 6
 Summary of Background Concentrations and Groundwater Protection Standards
 Plant Hammond AP-1, Floyd County, Georgia

| Analyte | Units | MCL | CCR-Rule Specified ⁽¹⁾ | Background Limit ⁽²⁾ | GWPS ^(3,4) |
|-------------------------|-------|-------|-----------------------------------|---------------------------------|-----------------------|
| Antimony | mg/L | 0.006 | N/A | 0.003 | 0.006 |
| Arsenic | mg/L | 0.01 | N/A | 0.005 | 0.01 |
| Barium | mg/L | 2 | N/A | 0.46 | 2 |
| Beryllium | mg/L | 0.004 | N/A | 0.0005 | 0.004 |
| Cadmium | mg/L | 0.005 | N/A | 0.0005 | 0.005 |
| Chromium | mg/L | 0.1 | N/A | 0.0079 | 0.1 |
| Cobalt | mg/L | N/A | 0.006 | 0.038 | 0.038 |
| Fluoride | mg/L | 4 | N/A | 1.3 | 4 |
| Lead | mg/L | N/A | 0.015 | 0.001 | 0.015 |
| Lithium | mg/L | N/A | 0.04 | 0.064 | 0.064 |
| Mercury | mg/L | 0.002 | N/A | 0.0002 | 0.002 |
| Molybdenum | mg/L | N/A | 0.1 | 0.01 | 0.1 |
| Selenium | mg/L | 0.05 | N/A | 0.005 | 0.05 |
| Thallium | mg/L | 0.002 | N/A | 0.001 | 0.002 |
| Combined Radium-226/228 | pCi/L | 5 | N/A | 4.36 | 5 |

Notes:

CCR = Coal Combustion Residuals

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

mg/L = milligrams per liter

N/A = Not Applicable

pCi/L = picocuries per liter

- (1) On February 22, 2022, the Georgia Environmental Protection Division (GA EPD) adopted the federally promulgated GWPS for cobalt, lithium, lead, and molybdenum.
- (2) The background limits were used when determining the GWPS under 40 CFR 257.95(h) and GA EPD Rule 391-3-4-.10(6)(a).
- (3) Under 40 CFR 257.95(h)(1-3) the GWPS is: (i) the maximum contaminant level (MCL) established under §§141.62 and 141.66 of this title; (ii) where an MCL has not been established a rule-specific GWPS; or (iii) background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.
- (4) The GWPS apply to the January and August 2023 sampling events.

Table 7
Summary of Pilot Study Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

| Pilot Study Area: | | South Area | | | | | | | | | | | | | | | | |
|------------------------------|---|------------|------------|------------|------------|------------|------------|-----------|------------|-----------|------------|------------|------------|------------|------------|-----------|------------|----------|
| Well ID: | | PT-07 | PT-07 | PT-07 | PT-07 | PT-07 | PT-07 | PT-07 | PT-07 | PT-08 | PT-08 | PT-08 | PT-08 | PT-08 | PT-08 | PT-08 | MW-53 | |
| Sample Date: | | 7/13/2023 | 8/9/2023 | 10/15/2023 | 10/17/2023 | 10/24/2023 | 10/31/2023 | 11/7/2023 | 11/21/2023 | 7/13/2023 | 8/9/2023 | 10/15/2023 | 10/17/2023 | 10/24/2023 | 10/31/2023 | 11/7/2023 | 11/21/2023 | 8/9/2023 |
| Parameter ^(1,2,3) | | | | | | | | | | | | | | | | | | |
| APPENDIX III | Boron | 1.0 | 0.93 | -- | 1.1 | -- | -- | 1.1 | -- | 1.0 | 0.99 | -- | 0.51 | -- | -- | 1.0 | -- | 1.5 |
| | Calcium | 168 | 173 | -- | 151 | -- | -- | -- | -- | 161 | 146 | -- | 88 | -- | -- | -- | -- | -- |
| | Chloride | 15.7 | 13.5 | -- | 15.3 | -- | -- | -- | -- | 17.0 | 14.5 | -- | 10.8 | -- | -- | -- | -- | -- |
| | Fluoride | 0.36 | 0.28 | -- | 0.35 | -- | -- | -- | -- | 0.36 | 0.27 | -- | 0.30 | -- | -- | -- | -- | -- |
| | pH | 6.76 | 6.82 | -- | 6.89 | 6.83 | 6.75 | 6.89 | 6.89 | 6.66 | 6.82 | -- | 6.79 | 6.75 | 6.54 | 6.73 | 6.83 | -- |
| | Sulfate | 411 | 339 | 243 | 306 | -- | -- | 287 | -- | 417 | 290 | 147 | 146 | -- | -- | 273 | -- | -- |
| | TDS | 808 | 771 | -- | 677 | -- | -- | -- | -- | 734 | 682 | -- | 378 | -- | -- | -- | -- | -- |
| APPENDIX IV | Antimony | <0.0012 | <0.0012 | -- | <0.0012 | -- | -- | -- | -- | <0.0012 | <0.0012 | -- | 0.00062 J | -- | -- | -- | -- | -- |
| | Arsenic | 0.34 | 0.27 | 0.30 | 0.23 | -- | -- | 0.33 | -- | 0.33 | 0.32 | 0.30 | 0.19 | -- | -- | 0.24 | -- | -- |
| | Barium | 0.056 | 0.053 | -- | 0.092 | -- | -- | -- | -- | 0.051 | 0.050 | -- | 0.039 | -- | -- | -- | -- | -- |
| | Beryllium | 0.00012 J | 0.000095 J | -- | 0.00014 J | -- | -- | -- | -- | 0.00011 J | 0.000073 J | -- | <0.000094 | -- | -- | -- | -- | -- |
| | Cadmium | <0.00011 | <0.00011 | -- | <0.00011 | -- | -- | -- | -- | <0.00011 | <0.00011 | -- | <0.00010 | -- | -- | -- | -- | -- |
| | Chromium | <0.0011 | <0.0011 | -- | <0.0011 | -- | -- | -- | -- | <0.0011 | <0.0011 | -- | <0.0019 | -- | -- | -- | -- | -- |
| | Cobalt | 0.13 | 0.090 | -- | 0.068 | -- | -- | -- | -- | 0.031 | 0.032 | -- | 0.018 | -- | -- | -- | -- | -- |
| | Fluoride | 0.36 | 0.28 | -- | 0.35 | -- | -- | -- | -- | 0.36 | 0.27 | -- | 0.30 | -- | -- | -- | -- | -- |
| | Lead | <0.00012 | <0.00012 | -- | 0.00029 J | -- | -- | -- | -- | 0.00019 J | <0.00012 | -- | <0.00016 | -- | -- | -- | -- | -- |
| | Lithium | 0.060 | 0.069 | -- | 0.062 | -- | -- | -- | -- | 0.065 | 0.073 | -- | 0.022 J | -- | -- | -- | -- | -- |
| | Mercury | <0.00013 | <0.00013 | -- | <0.00013 | -- | -- | -- | -- | <0.00013 | <0.00013 | -- | <0.00013 | -- | -- | -- | -- | -- |
| | Molybdenum | 0.017 | 0.012 | -- | 0.011 | -- | -- | -- | -- | 0.0079 J | 0.0071 J | -- | 0.020 | -- | -- | -- | -- | 0.14 |
| | Selenium | <0.0014 | <0.0014 | -- | <0.0014 | -- | -- | -- | -- | <0.0014 | <0.0014 | -- | <0.00096 | -- | -- | -- | -- | -- |
| Thallium | 0.00024 J | 0.00022 J | -- | 0.00026 J | -- | -- | -- | -- | <0.00018 | <0.00018 | -- | <0.00038 | -- | -- | -- | -- | -- | |
| GEOCHEM | Alkalinity (Bicarbonate) as CaCO ₃ | 102 | 116 | -- | 120 | -- | -- | -- | -- | 107 | 118 | -- | 106 | -- | -- | -- | -- | -- |
| | Alkalinity (Carbonate) as CaCO ₃ | <5.0 | <5.0 | -- | <5.0 | -- | -- | -- | -- | <5.0 | <5.0 | -- | <5.0 | -- | -- | -- | -- | -- |
| | Alkalinity (Total) as CaCO ₃ | 102 | 116 | -- | 120 | -- | -- | -- | -- | 107 | 118 | -- | 106 | -- | -- | -- | -- | -- |
| | Iron | 23.8 | 27.1 | 33.5 | 18.1 | -- | -- | 4.0 | -- | 24.2 | 22.0 | 60.1 | -- | -- | -- | 5.7 | -- | -- |
| | Magnesium | 18.5 | 19.4 | -- | 17.9 | -- | -- | -- | -- | 18.9 | 17.3 | -- | -- | -- | -- | -- | -- | -- |
| | Manganese | 8.2 | 7.6 | -- | 5.9 | -- | -- | -- | -- | 8.7 | 6.8 | -- | -- | -- | -- | -- | -- | -- |
| | Potassium | 6.0 | 6.8 | -- | 5.5 | -- | -- | -- | -- | 6.0 | 6.3 | -- | -- | -- | -- | -- | -- | -- |
| | Sodium | 6.1 | 7.2 | -- | 6.8 | -- | -- | -- | -- | 6.9 | 6.8 | -- | 4.8 | -- | -- | -- | -- | -- |
| Sulfide | <0.022 | <0.022 | -- | <0.022 | -- | -- | -- | -- | 0.036 J | <0.022 | -- | <0.022 | -- | -- | -- | -- | -- | |
| FIELD | Dissolved Oxygen | 0.30 | 0.40 | -- | 0.27 | 0.27 | 0.70 | 0.30 | 2.36 | 0.09 | 0.94 | -- | 0.17 | 0.23 | 1.31 | 0.99 | 1.33 | 0.24 |
| | Oxidation-Reduction Potential (mV) | -111 | -90.9 | -- | -104.4 | -103.8 | -84.0 | -111.5 | -78.2 | -124.9 | -84.4 | -- | -62.5 | -75.7 | -46.3 | -44.5 | -50.5 | 57.3 |
| | Temperature (°C) | 27.26 | 21.19 | -- | 20.71 | 19.83 | 19.32 | 20.67 | 19.18 | 24.53 | 20.60 | -- | 19.28 | 20.57 | 19.22 | 20.78 | 18.99 | 19.60 |
| | Specific Conductance (µS/cm) | 1064.5 | 1012.4 | -- | 835.69 | 857.51 | 793.71 | 974.44 | 745.93 | 1007.1 | 909.15 | -- | 504.85 | 736.95 | 747.41 | 914.11 | 749.39 | 848.27 |
| | pH (s.u.) | 6.76 | 6.82 | -- | 6.89 | 6.83 | 6.75 | 6.89 | 6.89 | 6.66 | 6.82 | -- | 6.79 | 6.75 | 6.54 | 6.73 | 6.83 | 6.63 |
| Turbidity (NTU) | 4.91 | 0.18 | -- | 3.22 | 2.78 | 4.39 | 4.27 | 4.17 | 4.41 | 3.98 | -- | 4.97 | 4.87 | 4.57 | 4.81 | 4.12 | 0.00 | |

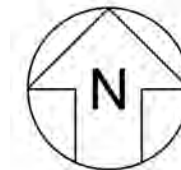
Notes:

- = Parameter was not analyzed.
- < = Indicates the parameter was not detected above the analytical method detection limit (MDL).
- °C = degrees Celsius
- J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).
- µS/cm = microsiemens per centimeter
- mV = millivolts
- NTU = nephelometric turbidity units
- s.u. = standard units
- TDS = Total dissolved solids
- (1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Analysis of combined radium omitted from the pilot study monitoring program. Unless otherwise indicated, parameters are reported in units of milligrams per liter (mg/L).
- (2) Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540C-2015, and combined radium 226/228 by EPA Methods 9315/9320.
- (3) The pH value presented was recorded at the time of sample collection in the field.
- (4) Baseline characterization samples were collected on July 13 and August 9, 2023. Subsequent samples were collected after injections began at AP-1 on September 25, 2023.

Table 7
 Summary of Pilot Study Groundwater Analytical Data
 Plant Hammond AP-1, Floyd County, Georgia

| Pilot Study Area: | | East Area | | | | | | | | | | | | | | | | | | |
|------------------------------|---|------------|-----------|-----------|-----------|------------|------------|------------|------------|------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|----------|
| Well ID: | | PT-09 | PT-09 | PT-09 | PT-09 | PT-09 | PT-09 | PT-09 | PT-09 | PT-09 | PT-10 | PT-10 | PT-10 | PT-10 | PT-10 | PT-10 | PT-10 | PT-10 | MW-54 | |
| Sample Date: | | 7/13/2023 | 8/9/2023 | 8/30/2023 | 10/3/2023 | 10/10/2023 | 10/17/2023 | 10/24/2023 | 10/31/2023 | 11/14/2023 | 7/13/2023 | 8/9/2023 | 8/30/2023 | 10/3/2023 | 10/10/2023 | 10/17/2023 | 10/24/2023 | 10/31/2023 | 11/14/2023 | 8/9/2023 |
| Parameter ^(1,2,3) | | | | | | | | | | | | | | | | | | | | |
| APPENDIX III | Boron | 2.1 | 1.6 | 1.8 | -- | 0.61 | 0.23 | -- | -- | -- | 2.2 | 2.1 | 2.3 | -- | 1.7 | 1.3 | -- | -- | -- | 0.45 |
| | Calcium | 110 | 136 | -- | -- | 11 | -- | -- | -- | -- | 127 | 116 | -- | -- | 125 | -- | -- | -- | -- | -- |
| | Chloride | 55.3 | 47.5 | -- | -- | 13.0 | -- | -- | -- | -- | 67.2 | 62.5 | -- | -- | 46.1 | -- | -- | -- | -- | -- |
| | Fluoride | 0.24 | 0.26 | -- | -- | 0.38 | -- | -- | -- | -- | 0.33 | 0.27 | -- | -- | 0.30 | -- | -- | -- | -- | -- |
| | pH | 6.57 | 6.89 | 8.94 | 7.17 | 9.40 | 7.80 | 7.25 | 7.04 | 6.98 | 7.01 | 7.18 | 9.22 | 7.07 | 9.72 | 7.11 | 7.13 | 7.11 | 7.16 | -- |
| | Sulfate | 160 | 188 | -- | 53.9 | 71.6 | 25.2 | -- | -- | -- | 145 | 123 | -- | 203 | 184 | 122 | -- | -- | -- | -- |
| | TDS | 534 | 594 | -- | -- | 257 | -- | -- | -- | -- | 557 | 553 | -- | -- | 597 | -- | -- | -- | -- | -- |
| APPENDIX IV | Antimony | 0.0027 J | <0.0012 | -- | -- | 0.0017 J | -- | -- | -- | -- | <0.0012 | <0.0012 | -- | -- | <0.0012 | -- | -- | -- | -- | -- |
| | Arsenic | <0.0037 | <0.0037 | -- | -- | <0.0037 | -- | -- | -- | -- | <0.0037 | <0.0037 | -- | -- | <0.0037 | -- | -- | -- | -- | 0.085 |
| | Barium | 0.053 | 0.057 | -- | -- | 0.063 | -- | -- | -- | -- | 0.074 | 0.070 | -- | -- | 0.076 | -- | -- | -- | -- | -- |
| | Beryllium | 0.000077 J | <0.000054 | -- | -- | <0.000054 | -- | -- | -- | -- | <0.000054 | <0.000054 | -- | -- | <0.000054 | -- | -- | -- | -- | -- |
| | Cadmium | <0.00011 | <0.00011 | -- | -- | <0.00011 | -- | -- | -- | -- | <0.00011 | <0.00011 | -- | -- | <0.00011 | -- | -- | -- | -- | -- |
| | Chromium | <0.0011 | <0.0011 | -- | -- | <0.0011 | -- | -- | -- | -- | <0.0011 | <0.0011 | -- | -- | <0.0011 | -- | -- | -- | -- | -- |
| | Cobalt | 0.0045 J | 0.0028 J | -- | -- | 0.00063 J | -- | -- | -- | -- | 0.0026 J | 0.0019 J | -- | -- | 0.0022 J | -- | -- | -- | -- | -- |
| | Fluoride | 0.24 | 0.26 | -- | -- | 0.38 | -- | -- | -- | -- | 0.33 | 0.27 | -- | -- | 0.30 | -- | -- | -- | -- | -- |
| | Lead | 0.00014 J | <0.00012 | -- | -- | <0.00012 | -- | -- | -- | -- | <0.00012 | <0.00012 | -- | -- | <0.00012 | -- | -- | -- | -- | -- |
| | Lithium | 0.0013 J | 0.0017 J | -- | -- | 0.0012 J | -- | -- | -- | -- | 0.0014 J | 0.0012 J | -- | -- | <0.0073 | -- | -- | -- | -- | -- |
| | Mercury | <0.00013 | <0.00013 | -- | -- | <0.00013 | -- | -- | -- | -- | <0.00013 | <0.00013 | -- | -- | <0.00013 | -- | -- | -- | -- | -- |
| | Molybdenum | 0.065 | 0.21 | 0.23 | 0.20 | 0.20 | 0.27 | -- | -- | -- | 0.10 | 0.096 | 0.96 | 0.16 | 0.18 | 0.21 | -- | -- | -- | -- |
| | Selenium | <0.0014 | <0.0014 | -- | -- | <0.0014 | -- | -- | -- | -- | <0.0014 | <0.0014 | -- | -- | <0.0014 | -- | -- | -- | -- | -- |
| Thallium | <0.00018 | <0.00018 | -- | -- | <0.00018 | -- | -- | -- | -- | <0.00018 | <0.00018 | -- | -- | <0.00018 | -- | -- | -- | -- | -- | |
| GEOCHEM | Alkalinity (Bicarbonate) as CaCO ₃ | 144 | 150 | -- | -- | 112 | -- | -- | -- | -- | 185 | 199 | -- | -- | 166 | -- | -- | -- | -- | -- |
| | Alkalinity (Carbonate) as CaCO ₃ | <5.0 | <5.0 | -- | -- | <5.0 | -- | -- | -- | -- | <5.0 | <5.0 | -- | -- | <5.0 | -- | -- | -- | -- | -- |
| | Alkalinity (Total) as CaCO ₃ | 144 | 150 | -- | -- | 112 | -- | -- | -- | -- | 185 | 199 | -- | -- | 166 | -- | -- | -- | -- | -- |
| | Iron | 0.33 | 0.10 | -- | 0.35 | 0.089 | 0.040 | -- | -- | -- | 3.1 | 2.9 | -- | 1.6 | 1.6 | 0.84 | -- | -- | -- | -- |
| | Magnesium | 15.6 | 18.2 | -- | -- | 1.9 | -- | -- | -- | -- | 16.8 | 16.8 | -- | -- | 16.7 | -- | -- | -- | -- | -- |
| | Manganese | 0.79 | 0.51 | -- | -- | 0.030 J | -- | -- | -- | -- | 3.5 | 3.1 | -- | -- | 1.6 | -- | -- | -- | -- | -- |
| | Potassium | 6.8 | 7.7 | -- | -- | 0.69 | -- | -- | -- | -- | 7.1 | 6.7 | -- | -- | 6.1 | -- | -- | -- | -- | -- |
| | Sodium | 10.6 | 10.3 | -- | -- | 0.69 J | -- | -- | -- | -- | 10.5 | 9.4 | -- | -- | 8.4 | -- | -- | -- | -- | -- |
| Sulfide | <0.022 | <0.022 | -- | -- | <0.022 | -- | -- | -- | -- | <0.022 | 0.045 J | -- | -- | <0.022 | -- | -- | -- | -- | -- | |
| FIELD | Dissolved Oxygen | 0.02 | 0.58 | 0.23 | 3.59 | 2.79 | 6.07 | 1.99 | 0.31 | 0.06 | 0.03 | 0.12 | 0.27 | 0.55 | 0.39 | 0.29 | 0.13 | 0.15 | 2.86 | 0.60 |
| | Oxidation-Reduction Potential (mV) | 18.4 | 14.4 | -111.8 | 51.8 | -5.3 | 32.2 | 42.7 | 20.1 | -12.9 | -161.5 | -80.9 | -251.4 | -24.8 | -278.6 | -50.3 | -80.6 | -57.2 | -50.9 | 117.5 |
| | Temperature (°C) | 24.48 | 21.59 | 21.02 | 21.06 | 22.18 | 21.47 | 21.31 | 20.06 | 19.07 | 21.95 | 21.79 | 20.98 | 17.56 | 21.48 | 20.31 | 21.19 | 19.84 | 20.60 | 22.86 |
| | Specific Conductance (µS/cm) | 779.77 | 826.86 | 829.44 | 317.09 | 345.12 | 252.68 | 367.85 | 528.08 | 813.75 | 842.15 | 770.46 | 814.73 | 884.18 | 898.80 | 568.18 | 548.18 | 483.92 | 713.27 | 488.16 |
| | pH (s.u.) | 6.57 | 6.89 | 8.94 | 7.17 | 9.40 | 7.80 | 7.25 | 7.04 | 6.98 | 7.01 | 7.18 | 9.22 | 7.07 | 9.72 | 7.11 | 7.13 | 7.11 | 7.16 | 6.18 |
| Turbidity (NTU) | 4.95 | 0.56 | 4.27 | 9.44 | 4.93 | 4.32 | 4.91 | 4.77 | 64.10 | 4.94 | 4.55 | 4.00 | -- | 2.95 | 4.42 | 1.43 | 3.88 | 4.45 | 0.36 | |

FIGURES

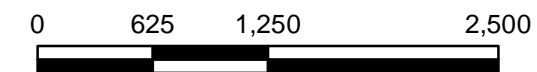


LEGEND

Plant Hammond Property Boundary



Note:
 1. Aerial photograph source: Google Earth Pro, August 2019 and Georgia Power Company, July 2023.



SCALE IN FEET

SITE LOCATION MAP

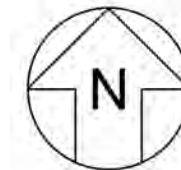
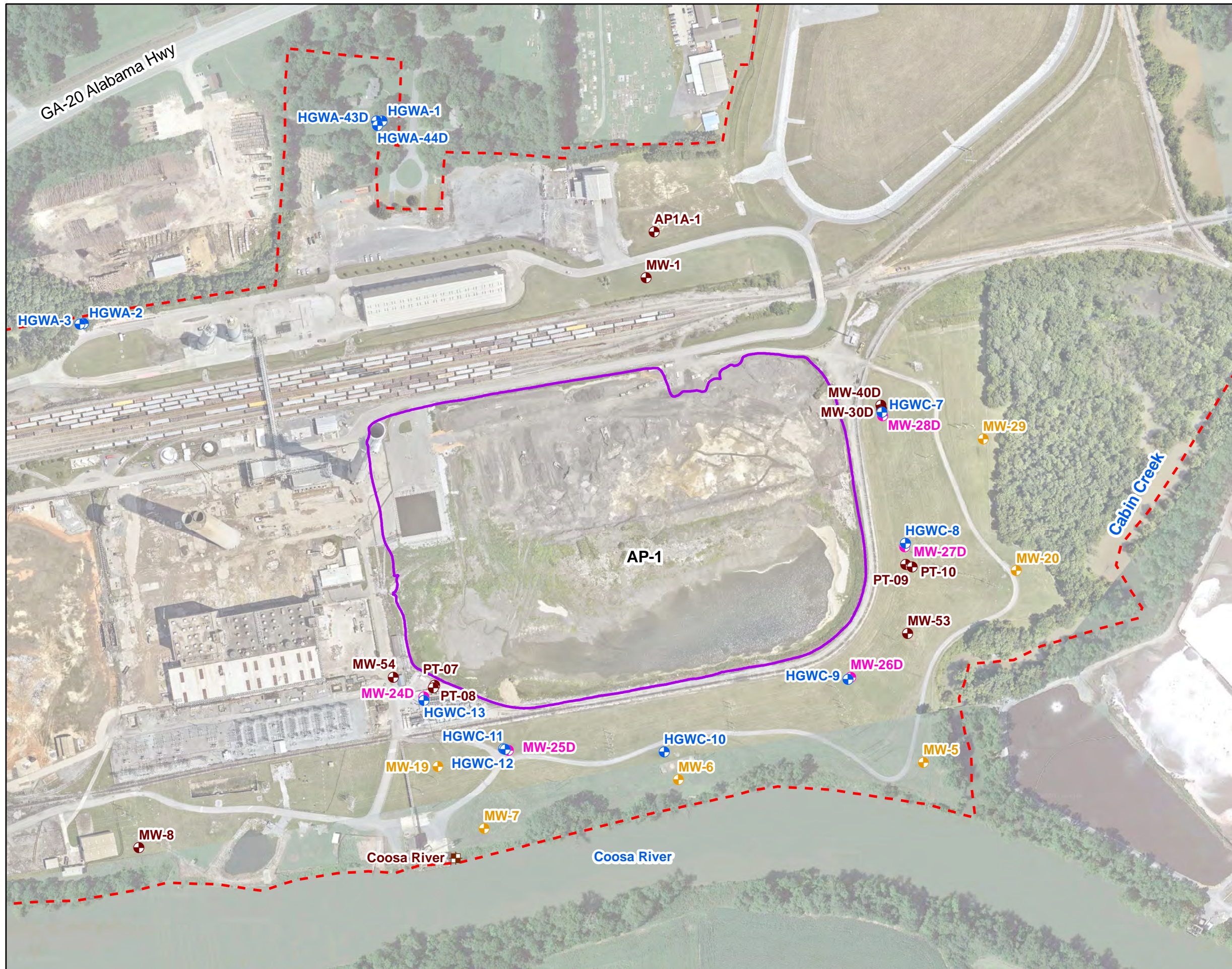
GEORGIA POWER COMPANY
 PLANT HAMMOND AP-1
 ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
 consultants

FIGURE
1

KENNESAW, GA JANUARY 2024



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Surface Water Level Gauge Point
- Approximate AP-1 Boundary
- Plant Hammond Property Boundary

Notes:
 1. Piezometers PT-07, PT-08, PT-09, PT-10, MW-53 and MW-54 were installed in support of an Assessment of Corrective Measures geochemical injections pilot study and are not included in the routine semiannual sampling of the monitoring well network.
 2. Aerial photograph source: Google Earth Pro, August 2019, and Georgia Power Company, July 2023.



MONITORING WELL NETWORK AND SAMPLING LOCATION MAP

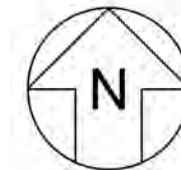
GEORGIA POWER COMPANY
 PLANT HAMMOND AP-1
 ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA JANUARY 2024

FIGURE
2



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Surface Water Level Gauge Point
- Groundwater Elevation Iso-Contour
- Approximate Groundwater Flow Direction
- Approximate AP-1 Boundary
- Plant Hammond Property Boundary



Notes:

1. Water level elevation recorded on January 23, 2023. Elevation provided in feet (ft) referenced to the North American Vertical Datum of 1988 (NAVD 88).
2. Groundwater elevations in parentheses were not used to make the groundwater contours because these wells are screened at a different elevation in the formation/aquifer.
3. Aerial photograph source: Google Earth Pro, August 2019 and Georgia Power Company, February 2023.



SCALE IN FEET

POTENTIOMETRIC SURFACE CONTOUR MAP - JANUARY 2023

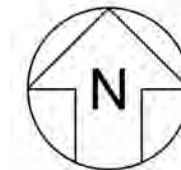
GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA JANUARY 2024

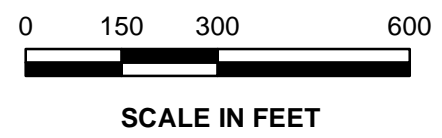
FIGURE
3



- LEGEND**
- ⊕ Detection Monitoring Well
 - ⊕ Horizontal Assessment Monitoring
 - ⊕ Vertical Assessment Monitoring
 - ⊕ Piezometer
 - ⊕ Surface Water Level Gauge Point
 - Groundwater Elevation Iso-Contour
 - ▶ Approximate Groundwater Flow Direction
 - Approximate AP-1
 - - - Plant Hammond Property Boundary



- Notes:
1. Water level elevation recorded on August 7, 2023. Elevation provided in feet (ft) referenced to the North American Vertical Datum of 1988 (NAVD 88).
 2. Groundwater elevations in parentheses were not used to make the groundwater contours because these wells are screened at a different elevation in the formation/aquifer.
 3. MW-29* and PT-07* were not used to make groundwater contours due to anomolous groundwater elevations.
 4. Aerial photograph source: Google Earth Pro, August 2019 and Georgia Power Company, July 2023.



**POTENTIOMETRIC SURFACE
CONTOUR MAP - AUGUST 2023**

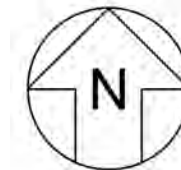
GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

KENNESAW, GA JANUARY 2024

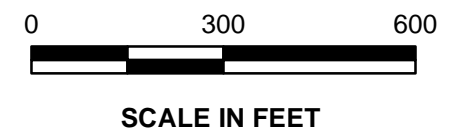
**FIGURE
4**



- LEGEND**
- Detection Monitoring Well
 - Horizontal Assessment Monitoring
 - Vertical Assessment Monitoring
 - Piezometer
 - GWPS Arsenic Iso-Concentration Contour (mg/L) (dashed where inferred)
 - Groundwater Elevation Iso-
 - ➔ Approximate Groundwater Flow
 - Approximate AP-1
 - Plant Hammond Property

Notes:

1. Concentration data from groundwater samples collected during the January 2023 semiannual monitoring event. Data reported for wells screened deeper in the aquifer were not used to generate the iso-concentration contour (HGWA-43D, HGWA-44D, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D). Concentrations are reported in mg/L.
2. Water level elevation recorded on January 23, 2023. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
3. The Groundwater Protection Standard (GWPS) for arsenic is 0.01 mg/L.
4. Aerial photograph source: Google Earth Pro, August 2019, and Georgia Power Company, February 2023.



**ISO-CONCENTRATION MAP
ARSENIC - JANUARY 2023**

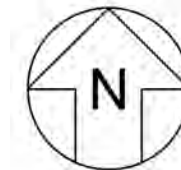
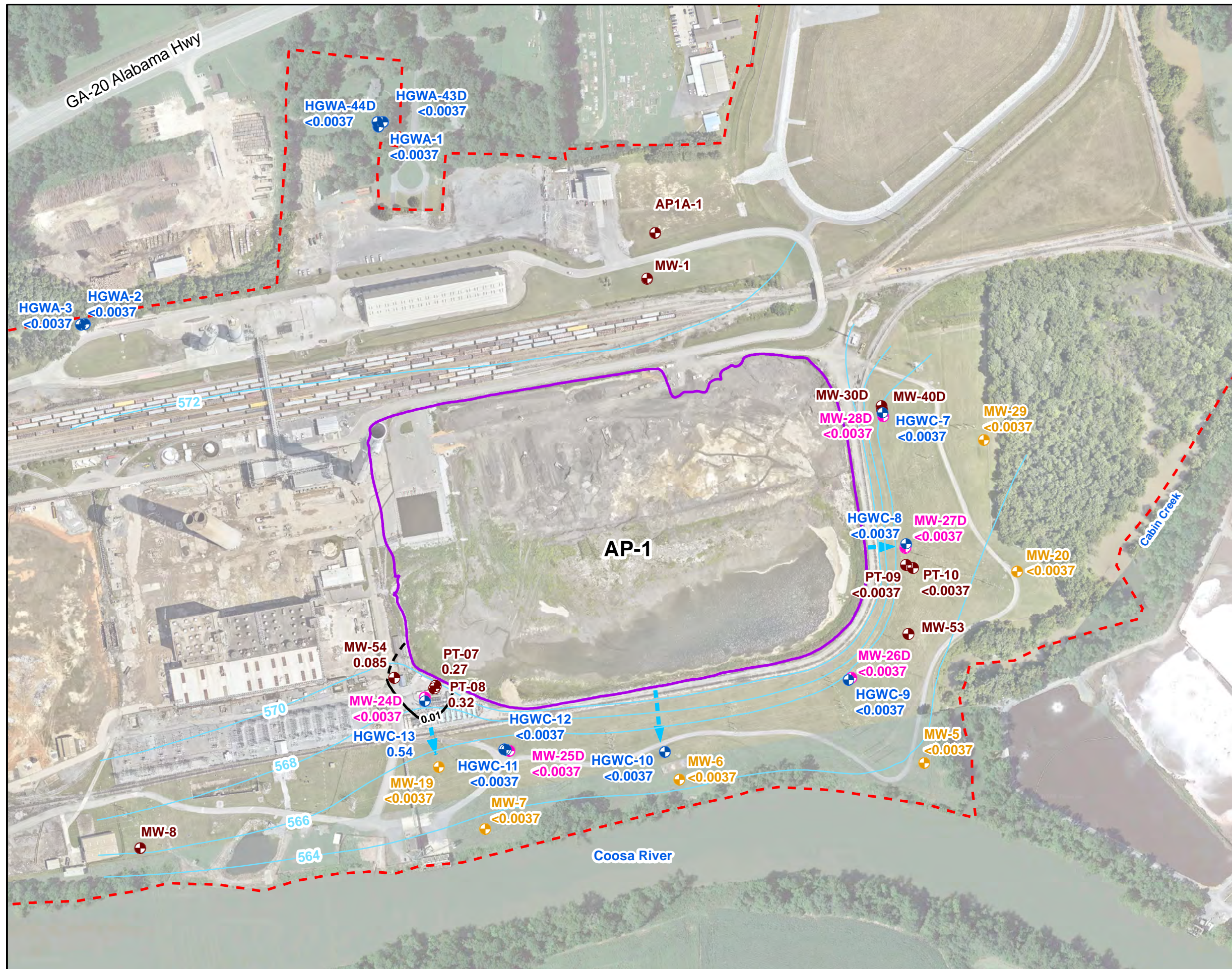
GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

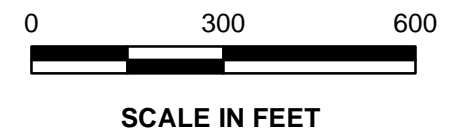
KENNESAW, GA JANUARY 2024

**FIGURE
5**



- LEGEND**
- ⊕ Detection Monitoring Well
 - ⊕ Horizontal Assessment Monitoring Well
 - ⊕ Vertical Assessment Monitoring Well
 - ⊕ Piezometer
 - GWPS Arsenic Iso-Concentration Contour (mg/L) (dashed where inferred)
 - Groundwater Elevation Iso-Contour
 - ➔ Approximate Groundwater Flow Direction
 - Approximate AP-1 Boundary
 - ⬡ Plant Hammond Property Boundary

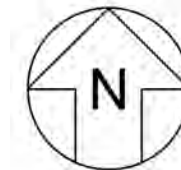
- Notes:**
1. Concentration data from groundwater samples collected during the August 2023 semiannual monitoring event. Data reported for wells screened deeper in the aquifer were not used to generate the iso-concentration contour (HGWA-43D, HGWA-44D, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D). Concentrations are reported in mg/L.
 2. Water level elevation recorded on August 7, 2023. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
 3. The Groundwater Protection Standard (GWPS) for arsenic is 0.01 mg/L.
 4. Piezometers may be sampled as needed for constituent specific site characterization.
 5. Aerial photograph source: Google Earth Pro, August 2019, and Georgia Power Company, July 2023.



**ISO-CONCENTRATION MAP
ARSENIC - AUGUST 2023**

GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

| | |
|---------------|---------------------|
| Prepared For: | FIGURE 6 |
| Prepared By: | |
| KENNESAW, GA | JANUARY 2024 |



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring
- Vertical Assessment Monitoring
- Piezometer
- GWPS Molybdenum Iso-Concentration Contour (mg/L)
- Groundwater Elevation Iso-Contour
- ▶ Approximate Groundwater Flow
- Approximate AP-1
- Plant Hammond Property Boundary

Notes:

1. Concentration data from groundwater samples collected during the August 2023 semiannual monitoring event. Data reported for wells screened deeper in the aquifer were not used to generate the iso-concentration contour (HGWA-43D, HGWA-44D, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D). Concentrations are reported in mg/L.
2. Water level elevation recorded on August 7, 2023. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
3. The Groundwater Protection Standard (GWPS) for molybdenum is 0.1 mg/L.
4. Piezometers may be sampled as needed for constituent specific site characterization.
5. Aerial photograph source: Google Earth Pro, August 2019, and Georgia Power Company, July 2023.



**ISO-CONCENTRATION MAP
MOLYBDENUM - AUGUST 2023**

GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

KENNESAW, GA JANUARY 2024

**FIGURE
8**

APPENDIX A

Well Design, Installation, and Development Report – Addendum No. 5



Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

WELL DESIGN, INSTALLATION, AND DEVELOPMENT REPORT - ADDENDUM

No. 5

**PLANT HAMMOND ASH POND 1
(AP-1)**

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW6581E

October 2023



CERTIFICATION PAGE

I hereby certify that this *Well Design, Installation, and Development Report – Addendum No. 5, Plant Hammond Ash Pond 1 (AP-1)* has been prepared by, or under the direct supervision of, a Qualified Groundwater Scientist with Geosyntec Consultants, Inc. and is in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule [40 Code of Federal Regulations 257 Subpart D], specifically §257.91(e)(1), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10.

According to 391-3-4-.01, a Qualified Groundwater Scientist is “a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action.”



A handwritten signature in blue ink that reads "Christine Hug".

Christine Hug P.G.
Georgia Professional Geologist No. 002221
Project Manager
Geosyntec Consultants

October 3, 2023

Date

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LIST OF ACRONYMS

| | |
|---------------|---|
| AP | Ash Pond |
| ASTM | American Society for Testing and Materials |
| CCR | coal combustion residual |
| CFR | Code of Federal Regulations |
| CFS | Civil Field Services |
| DO | dissolved oxygen |
| GA EPD | Georgia Environmental Protection Division |
| Georgia Power | Georgia Power Company |
| NAD | North America Datum |
| NAVD | North American Vertical Datum |
| NSF | National Sanitation Foundation |
| ORP | oxygen reduction potential |
| PVC | polyvinyl chloride |
| SCS | Southern Company Services |
| TOC | top of casing |
| US EPA | United States Environmental Protection Agency |

1. INTRODUCTION

This report provides details regarding the design, installation, and development of six piezometers¹ (MW-53, MW-54, PT-07, PT-08, PT-09, and PT-10) to supplement the current groundwater monitoring system at Georgia Power Company (Georgia Power) Plant Hammond (Site) Ash Pond 1 (AP-1). The report was prepared as an addendum to previously submitted well design, installation, development and decommissioning reports issued for the Site (ERM, 2017; Geosyntec 2019, 2020a, 2020b, and 2020c), and meets the requirements promulgated in the United States Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule [40 Code of Federal Regulations (CFR) Part 257, Subpart D], specifically 40 CFR §257.91(e)(1) and Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10.

Plant Hammond is located in Floyd County, approximately 10 miles west of Rome, Georgia. The current groundwater monitoring system at AP-1 includes a network of detection monitoring wells, assessment monitoring wells, and piezometers. The locations of these wells and piezometers are shown on **Figure 1**.

MW-53 and MW-54 were installed to characterize site conditions. PT-07, PT-08, PT-09, and PT-10 were installed to specifically monitor the performance of the pilot study injections in support of the Assessment of Corrective Measures program.

¹ For the purposes of this report, unless otherwise specified, the term “well” will be used interchangeably with “piezometer”.

2. DRILLING AND WELL INSTALLATION

Well installation and development activities were performed according to accepted industry standards and following guidelines within the Manual for Groundwater Monitoring (GA EPD, 1991). Well drilling, installation, and surface completion activities were performed by Cascade Drilling, Inc. of Midland, North Carolina. In accordance with the Georgia Water Well Standards Act, the driller was required to have an insurance bond on file with the State of Georgia at the time of drilling. A copy of this bond is provided in **Appendix A**. A geologist under the supervision of a professional geologist (PG) registered to practice in the State of Georgia, both of whom are employed with Geosyntec Consultants (Geosyntec), documented the drilling and installation efforts to record observations, soil and rock descriptions, subsurface stratigraphy, water elevations, and other field activities. Geosyntec was also responsible for the development of the newly installed wells.

The locations of the new piezometers are shown on **Figure 1**. Well construction details are provided in **Table 1**; boring and well construction logs are included in **Appendix B**.

2.1 Drilling Method

The boreholes were advanced using roto-sonic drilling techniques with continuous core collection. Terra Sonic compact crawler size track mounted rig with a 6-inch sonic drill rod was used to install the wells. Care was taken so that the drilling methods did not introduce contamination of the groundwater from surface activities. Drilling equipment was cleaned prior to mobilizing to the site.

2.2 Screened Interval

Details regarding the well screened intervals are provided in **Table 1**. The wells are screened in the uppermost water bearing unit of the Site. Screened elevations across the new wells range from approximately 564.98 to 544.30 feet (referenced to the North American Vertical Datum of 1988). The wells were constructed with a 10 foot well screen segment.

2.3 Well Casings and Screens

The wells were constructed of 2-inch inner diameter Schedule 40 polyvinyl chloride (PVC) casing with flush-threaded fittings. The wells were installed with a 10-foot nominal length pre-packed dual-wall well screen with 0.010-inch slots. The casing and

pre-packed screens arrived pre-cleaned and packaged by the manufacturer. The pre-packed well screens were constructed onsite by packing sand between slotted PVC and the well screen. Well construction materials are sufficiently durable to resist chemical and physical degradation and do not interfere with the quality of groundwater samples. Casing and screen are flush-threaded. Solvent or glue was not used to construct the wells. A threaded bottom cap was attached to the bottom of each well screen. The PVC products used were American Society for Testing and Materials (ASTM) and National Sanitation Foundation (NSF) rated. Well screen interval details are provided in **Table 1**.

2.4 Well Intake Design

The wells were designed and constructed to: (1) allow sufficient groundwater flow to the well for sampling; (2) minimize the passage of formation materials (turbidity) into the well; and (3) ensure sufficient structural integrity to prevent collapse of the well. The annular space between the face of the formation and the screens was filled to minimize passage of formation materials into the well. A filter pack of clean, well-rounded, quartz sand was installed in each well. The 0.01-inch slot size was selected to minimize the inflow of formation material without impairing influent groundwater flow.

2.5 Filter Pack

Highly Pure Quartzite of Consolidated Aggregates Co. silica sand filter pack was used as the appropriate gradation for the wells. The filter pack material meets the ASTM D5092 uniformity coefficient specification of 2.5 or less, with a uniformity coefficient of 1.6.

Filter pack material was placed within the pre-packed dual-wall well screens and in the annular space between the outside of the pre-pack screen and borehole wall to ensure an adequate thickness of filter pack material between the wells and the formation. Placement of the filter pack between the borehole wall and PVC was placed via gravity-pouring. Filter pack material placed in the annular space outside of the well screens extended approximately 2 feet above the top of screens. No bridging occurred during filter pack placement at any of the well locations.

Upon placement of the filter pack, the wells were pumped with a submersible pump to assure settlement of the filter pack. The top of filter pack depth was measured following pumping to ensure appropriate extension of filter sand above the screens. The depth of top of filter pack was measured and recorded on the well construction logs provided in **Appendix B**.

2.6 Annular Seal

A minimum of two feet of bentonite chips (PelPlug un-coated 3/8-inch bentonite pellets) were placed immediately above the filter pack by gravity-pouring into the annular space and hydrated per manufacture's specifications. A tremie pipe was used to probe the annular space to ensure that no bridging occurred. The bentonite was hydrated with potable water for a duration meeting the manufacture's specifications prior to grouting the remaining annulus.

The annulus above the bentonite seal was grouted with AquaGuard bentonite grout placed via tremie pipe and direct pour methods from the top of the bentonite seal. During grouting, care was taken to assure that the bentonite seal was not disturbed by locating the base of the tremie pipe approximately 2 feet above the bentonite seal and injecting grout at low pressure/velocity. A cement apron 4-feet by 4-feet by 4-inches was poured around the protective risers at wells MW-53, PT-09, and PT-10. A cement apron 2-feet by 2-feet by 4-inches was poured around flush mount wells PT-07, PT-08, and MW-54. The pads were mounded slightly outward to direct surface drainage away from the wells.

2.7 Cap and Protective Casing

The well risers at MW-53, PT-09, and PT-10 were fitted with a locking cap and a lockable cover. A one-quarter inch vent hole was drilled into the PVC riser pipes to provide an avenue for the escape of gas. A weep hole was drilled in the outer protective casing near the bottom above the concrete pad. Pea gravel was placed inside the protective casing between the riser pipe and the outer casing. The wells were clearly marked with the proper well identification number on the stand-up casing. The lockable cover guards the casing from damage and the locking caps serve as a security device to prevent well tampering. Bollards were installed around MW-53, and well cluster PT-09, and PT-10 to protect the general well area.

MW-54, PT-07, and PT-08 were installed with flush-mounted well vaults and watertight flush-mounted well covers. The wells were clearly marked with the proper well identification number on a secured aluminum well tag on the manhole covers.

Construction details are documented on the well construction logs provided in **Appendix B**.

3. WELL DEVELOPMENT

The wells were developed using a combination of surging and pumping to (1) restore the natural hydraulic conductivity of the formation, and (2) to remove fine-grained sediment to ensure low-turbidity groundwater samples. The wells were alternately surged and purged until visually clear of particulates. Turbidity, pH, temperature, conductivity, oxidation-reduction potential (ORP), and dissolved oxygen (DO) measurements were recorded to ensure that each well was fully developed. The well development and calibration field forms are included in **Appendix C**.

4. SURVEY

Upon completion of the well installations, select horizontal locations and vertical elevations were surveyed by a Georgia-licensed surveyor. The top of the PVC well casing [top of casing (TOC) elevation] and the survey pin installed at the well pads were surveyed to within 0.5-foot horizontal accuracy and to 0.01-foot vertical accuracy. The horizontal location (i.e., northings and eastings) was recorded in feet relative to the North America Datum of 1983 (NAD) with the vertical elevation recorded in feet relative to the North American Vertical Datum of 1988. Certified survey data are provided in the well construction table (**Table 1**). A copy of the certified well survey data for the new wells are provided in **Appendix D**.

5. REFERENCES

- Environmental Resources Management (ERM), 2017. *Well Design, Installation, Development, and Decommissioning Report – Plant Hammond Ash Ponds 1 and 2*. October 2017.
- Georgia Environmental Protection Division (GA EPD), Georgia Department of Natural Resources, 1991. *Manual for Groundwater Monitoring*. September 1991.
- Geosyntec Consultants, 2019. Well Design, Installation and Development Report – Addendum, Plant Hammond Ash Ponds 1 and 2 (AP-1 and AP-2). June 2019.
- Geosyntec Consultants, 2020a. Well Design, Installation and Development Report – Addendum 2, Plant Hammond Ash Ponds 1 (AP-1). January 2020.
- Geosyntec Consultants, 2020b. Well Design, Installation and Development Report – Addendum No 3, Plant Hammond Ash Ponds 1 (AP-1). July 2020.
- Geosyntec Consultants, 2020c. Well Design, Installation and Development Report – Addendum No 4, Plant Hammond Ash Ponds 1 (AP-1). November 2020.
- United States Environmental Protection Agency. 2015a. 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 2015

TABLE

Table 1
 Summary of Well Construction Details
 Plant Hammond AP-1, Floyd County, Georgia

| Well ID | Purpose | Well Completion | Installation Date | Northing ⁽¹⁾ | Easting ⁽¹⁾ | Ground Surface Elevation ⁽²⁾ (ft) | Top of Casing Elevation ⁽²⁾ (ft) | Top of Screen Elevation (ft) | Bottom of Screen Elevation (ft) | Well Depth (ft bgs) ⁽³⁾ |
|---------|------------|------------------|-------------------|-------------------------|------------------------|--|---|------------------------------|---------------------------------|------------------------------------|
| PT-07 | Piezometer | Flush Mount | 6/3/2023 | 1548675.24 | 1940933.39 | 592.00 | 591.75 | 554.40 | 544.30 | 48.00 |
| PT-08 | Piezometer | Flush Mount | 6/3/2023 | 1548666.82 | 1940929.58 | 592.10 | 591.83 | 560.20 | 550.20 | 42.20 |
| PT-09 | Piezometer | Protective Riser | 6/1/2023 | 1549049.74 | 1942393.11 | 577.33 | 580.35 | 560.18 | 550.18 | 27.45 |
| PT-10 | Piezometer | Protective Riser | 6/1/2023 | 1549040.34 | 1942413.88 | 577.39 | 580.44 | 560.29 | 550.29 | 27.40 |
| MW-53 | Piezometer | Protective Riser | 6/2/2023 | 1548835.51 | 1942399.62 | 577.64 | 580.59 | 554.54 | 544.54 | 33.40 |
| MW-54 | Piezometer | Flush mount | 6/2/2023 | 1548699.51 | 1940805.03 | 592.98 | 592.66 | 564.98 | 554.98 | 38.30 |

Notes:

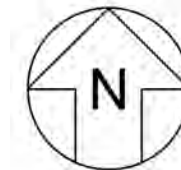
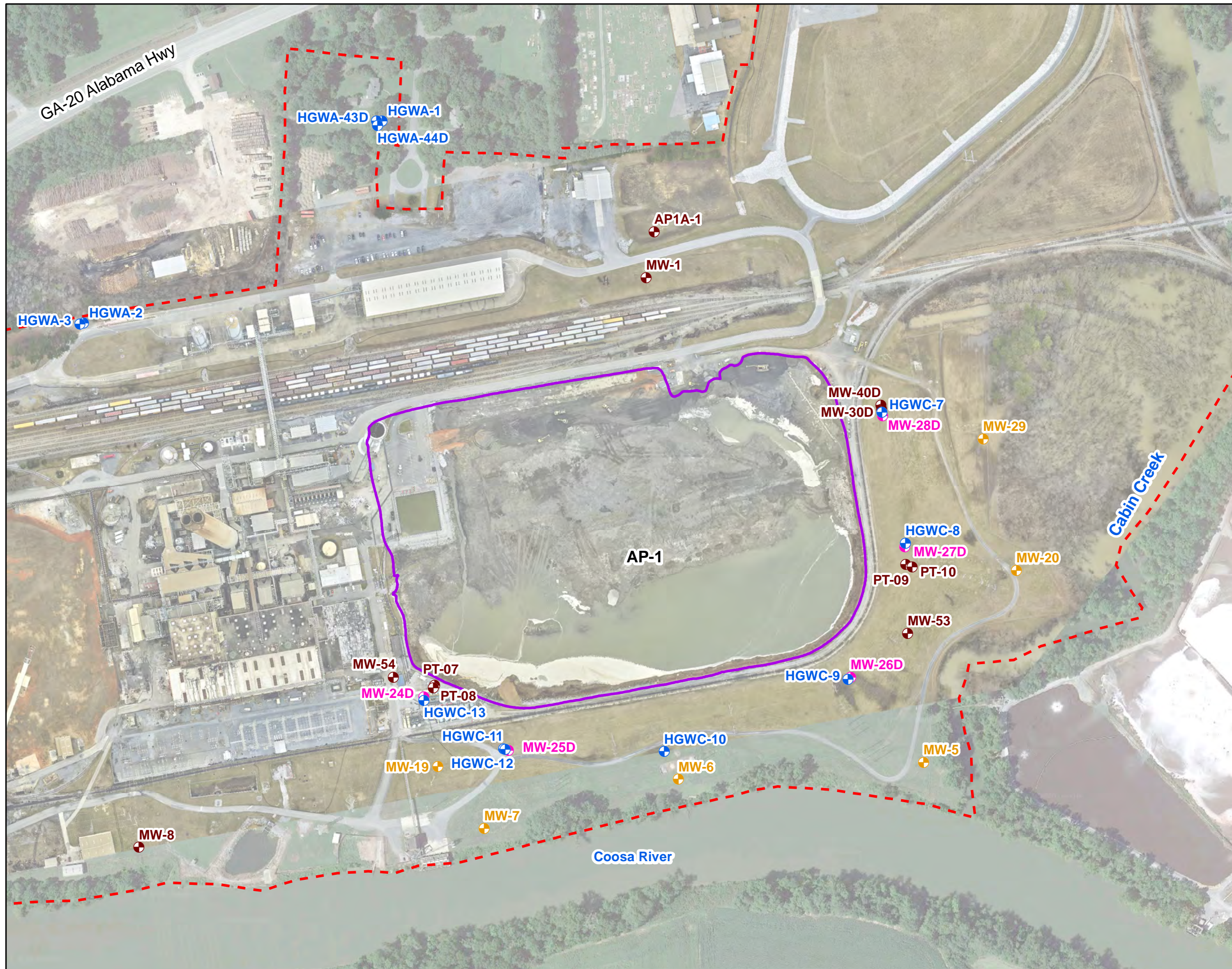
ft bgs = feet below ground surface.

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Survey was completed by GEL Solutions and certified July 17, 2023, and August 30, 2023.

(2) Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Ground surface elevation defined at the survey nail installed within the well pad. Survey was completed by GEL Solutions and certified July 17, 2023, and August 30, 2023.

(3) Total well depth accounts for 0.3 ft sump.

FIGURE



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Approximate AP-1 Boundary
- Plant Hammond Property Boundary

Notes:
 1. Aerial photograph source: Google Earth Pro, August 2019, and Georgia Power Company, February 2023.



GROUNDWATER MONITORING NETWORK MAP
 GEORGIA POWER COMPANY
 PLANT HAMMOND AP-1
 ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA OCTOBER 2023

FIGURE 1

APPENDIX A

Well Driller Performance Bonds

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company

, Surety upon

a certain Bond No. 800033976

dated effective September 27, 2017
(MONTH-DAY-YEAR)

on behalf of Ricky Davis / Cascade Drilling, L.P.
(PRINCIPAL)

and in favor of Department of Natural Resources, State of Georgia
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2023
(MONTH-DAY-YEAR)

and ending on June 30, 2025
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and 00/100 Dollars (\$30,000.00)

Description of bond Performance Bond for Water Well Contractors

Premium:

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on April 13, 2023
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By 
ATTORNEY-IN-FACT Carlos A. Albelo



Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Megan Sivley, Melissa Haddick, Sandra Parker, Orlando Aguirre, Stacy Killebrew, Carlos A. Albelo**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

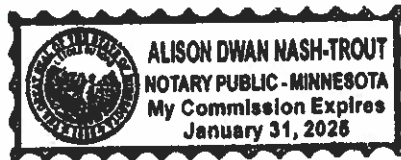
IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this first day of January, 2023.



By *Sarah A. Kolar*
Sarah A. Kolar, General Counsel

STATE OF MINNESOTA
HENNEPIN COUNTY

On this first day of January, 2023, before me personally came Sarah A. Kolar, General Counsel of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and she acknowledged the execution of the same, and being by me duly sworn, that she is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.



Alison Nash-Trout
Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 13th day of April, 2023.



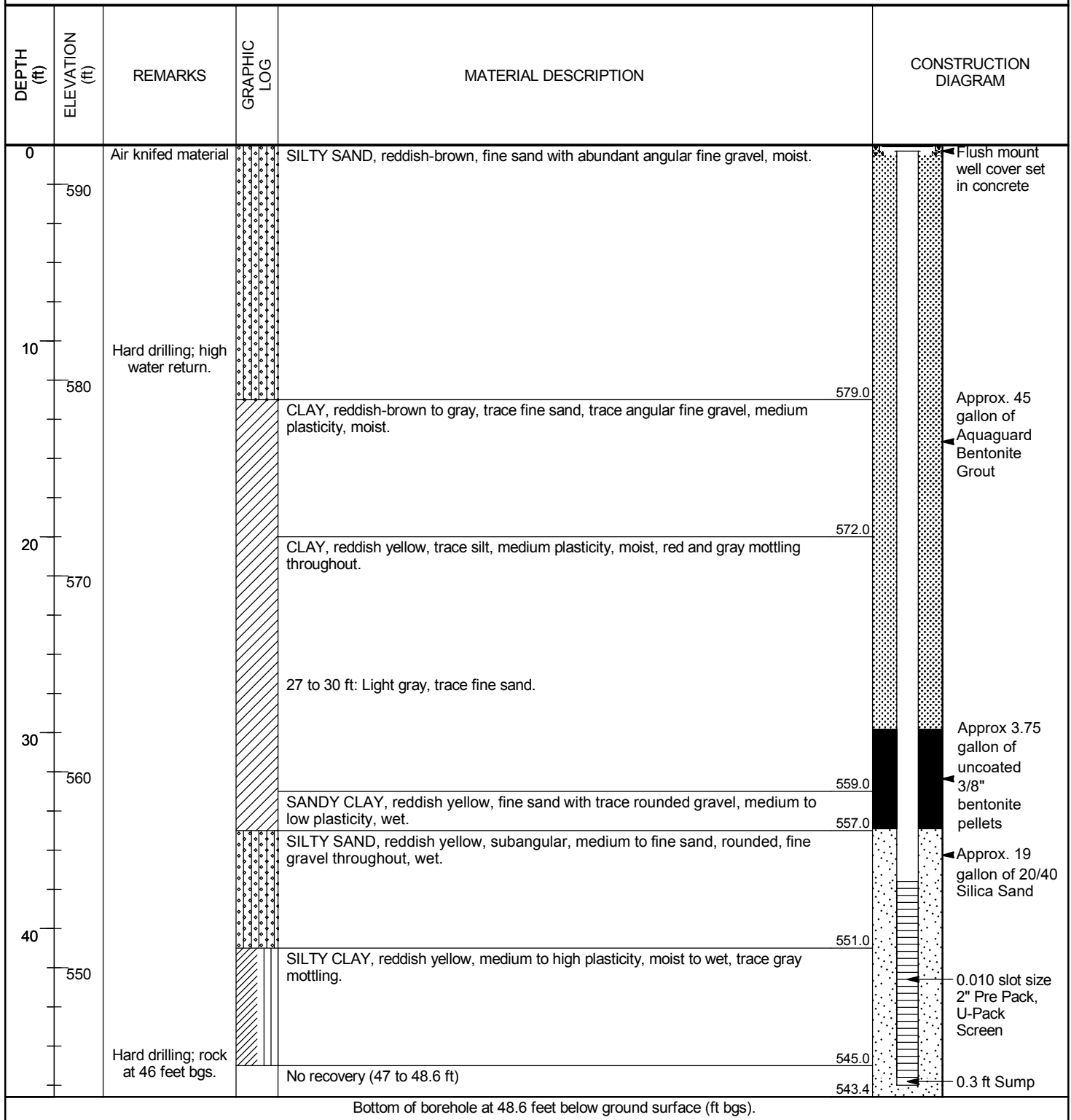
This Power of Attorney expires
January 31, 2025

Kara Barrow
Kara Barrow, Secretary

APPENDIX B

Boring and Well Construction Logs

| | |
|--|--|
| CLIENT <u>Southern Company Services</u> | PROJECT NAME <u>Plant Hammond Well Installation</u> |
| PROJECT NUMBER <u>GW6581E</u> | PROJECT LOCATION <u>Plant Hammond</u> |
| DATE STARTED <u>06/03/23</u> COMPLETED <u>06/03/23</u> | NORTHING <u>1548675.24 ft</u> EASTING <u>1940933.39 ft</u> |
| DRILLER <u>Cascade Drilling</u> | GROUND ELEVATION <u>592.00 ft</u> BORING DIAMETER <u>6 in.</u> |
| DRILLING METHOD <u>Sonic</u> | TOP OF CASING ELEVATION <u>591.75 ft</u> |
| SAMPLING METHOD <u>Sonic Core</u> | GEOPHYSICAL CONTRACTOR <u>---</u> |
| RIG TYPE <u>Terrasonic Compact Crawler</u> | LOGGED BY <u>T. Kessler</u> CHECKED BY <u>C. Hug</u> |

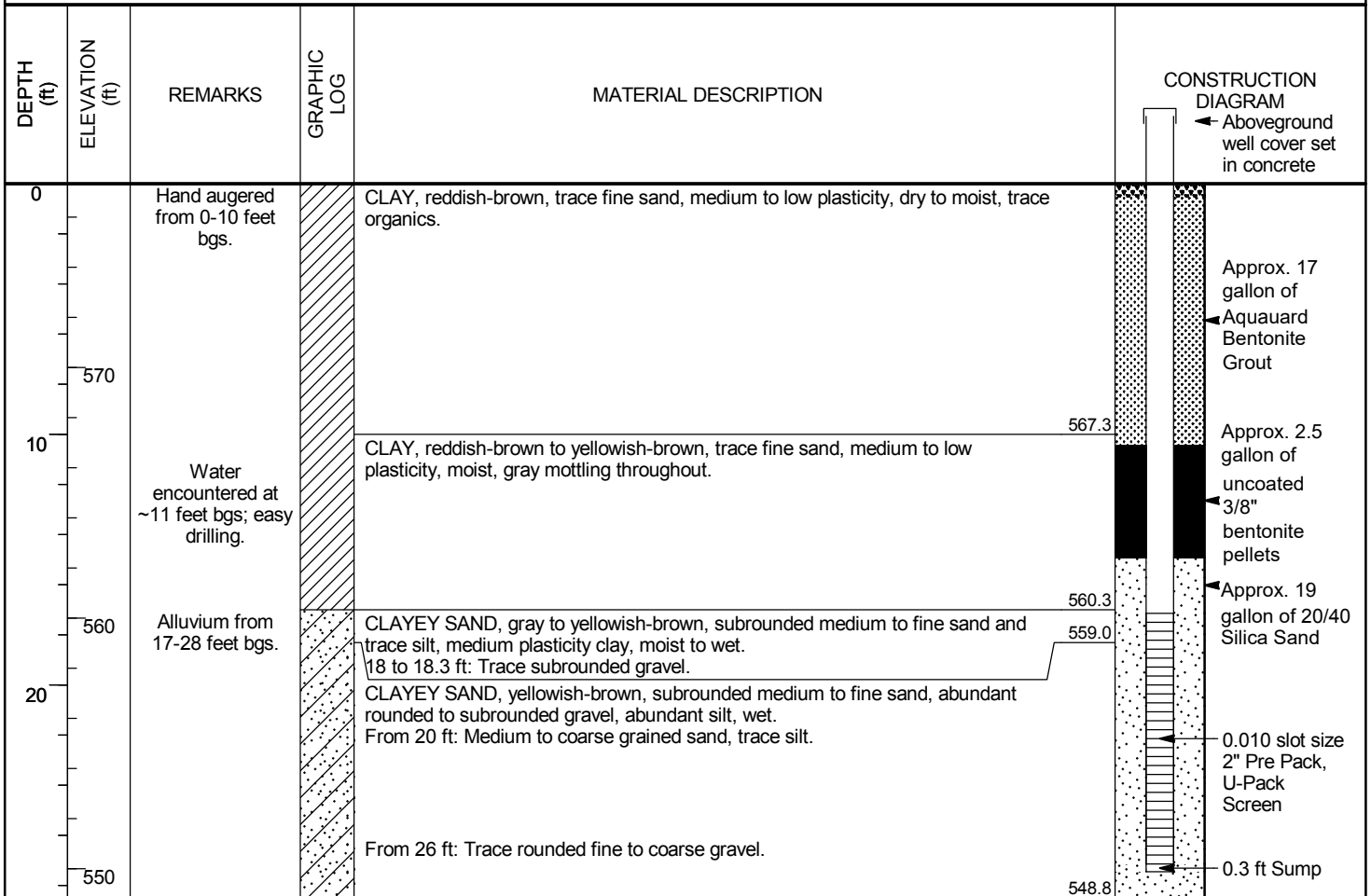


| | |
|--|--|
| CLIENT <u>Southern Company Services</u> | PROJECT NAME <u>Plant Hammond Well Installation</u> |
| PROJECT NUMBER <u>GW6581E</u> | PROJECT LOCATION <u>Plant Hammond</u> |
| DATE STARTED <u>06/03/23</u> COMPLETED <u>06/03/23</u> | NORTHING <u>1548666.82 ft</u> EASTING <u>1940929.58 ft</u> |
| DRILLER <u>Cascade Drilling</u> | GROUND ELEVATION <u>592.10 ft</u> BORING DIAMETER <u>6 in.</u> |
| DRILLING METHOD <u>Sonic</u> | TOP OF CASING ELEVATION <u>591.83 ft</u> |
| SAMPLING METHOD <u>Sonic Core</u> | GEOPHYSICAL CONTRACTOR <u>---</u> |
| RIG TYPE <u>Terrasonic Compact Crawler</u> | LOGGED BY <u>T. Kessler</u> CHECKED BY <u>C. Hug</u> |

| DEPTH (ft) | ELEVATION (ft) | REMARKS | GRAPHIC LOG | MATERIAL DESCRIPTION | CONSTRUCTION DIAGRAM |
|------------|----------------|--|-------------|--|--|
| 0 | 590 | Air knifed material | | SILTY SAND, reddish-brown, fine sand, abundant angular fine to coarse gravel, moist. | Flush mount well cover set in concrete |
| 10 | 580 | Very soft drilling, no vibrations to 18 feet bgs. Fill material from 13-16 feet bgs. | | CLAY, reddish-brown to gray, trace fine sand and angular to rounded fine gravel, trace silt, medium plasticity, moist, trace organic material. | Approx. 35 gallon of Aquaward Bentonite Grout |
| 20 | 570 | Drilling becomes harder; significant amount of return water to surface during overdrill. | | CLAY, red to yellowish red, trace silt and trace fine sand from 20-21 feet bgs, medium plasticity, moist, gray mottling throughout. | Approx 2.5 gallon of uncoated 3/8" bentonite pellets |
| 30 | 560 | | | SILTY SAND, yellowish red, fine sand with trace rounded fine gravel, moist to wet. | Approx. 19 gallon of 20/40 Silica Sand |
| 40 | 550 | | | SILTY SAND, yellowish red, subrounded medium to fine sand, abundant rounded fine to coarse gravel, wet. | 0.010 slot size 2" Pre Pack, U-Pack Screen |
| | | | | SANDY CLAY, yellowish red, fine sand and trace gravel, medium plasticity, moist. | 0.3 ft Sump |

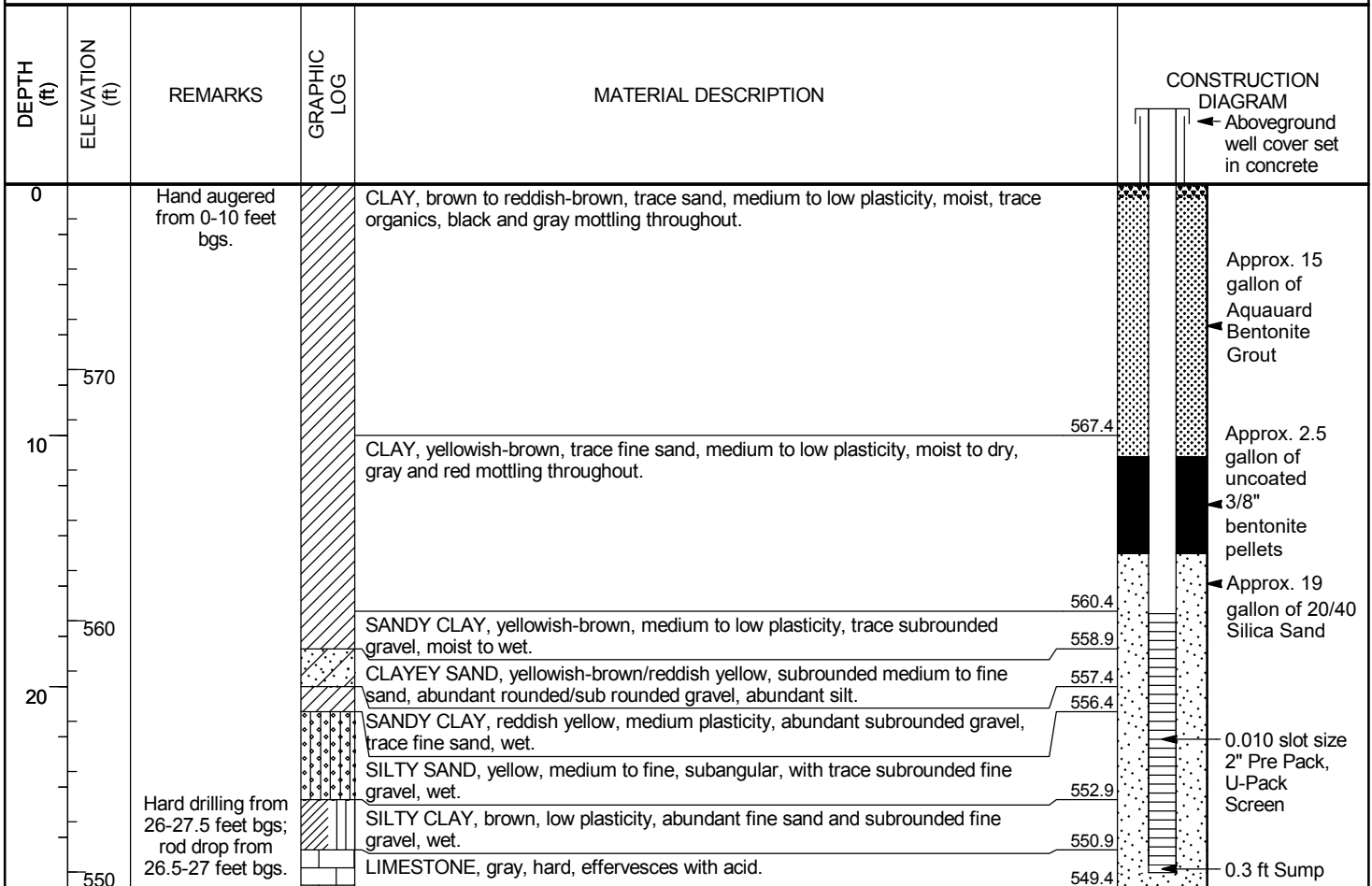
Bottom of borehole at 43.0 feet below ground surface (ft bgs).

| | |
|--|--|
| CLIENT Southern Company Services | PROJECT NAME Plant Hammond Well Installation |
| PROJECT NUMBER GW6581E | PROJECT LOCATION Plant Hammond |
| DATE STARTED 05/31/23 COMPLETED 06/01/23 | NORTHING 1549049.74 ft EASTING 1942393.11 ft |
| DRILLER Cascade Drilling | GROUND ELEVATION 577.33 ft BORING DIAMETER 6 in. |
| DRILLING METHOD Sonic | TOP OF CASING ELEVATION 580.35 ft |
| SAMPLING METHOD Sonic Core | GEOPHYSICAL CONTRACTOR --- |
| RIG TYPE Terrasonic Compact Crawler | LOGGED BY T. Kessler CHECKED BY C. Hug |



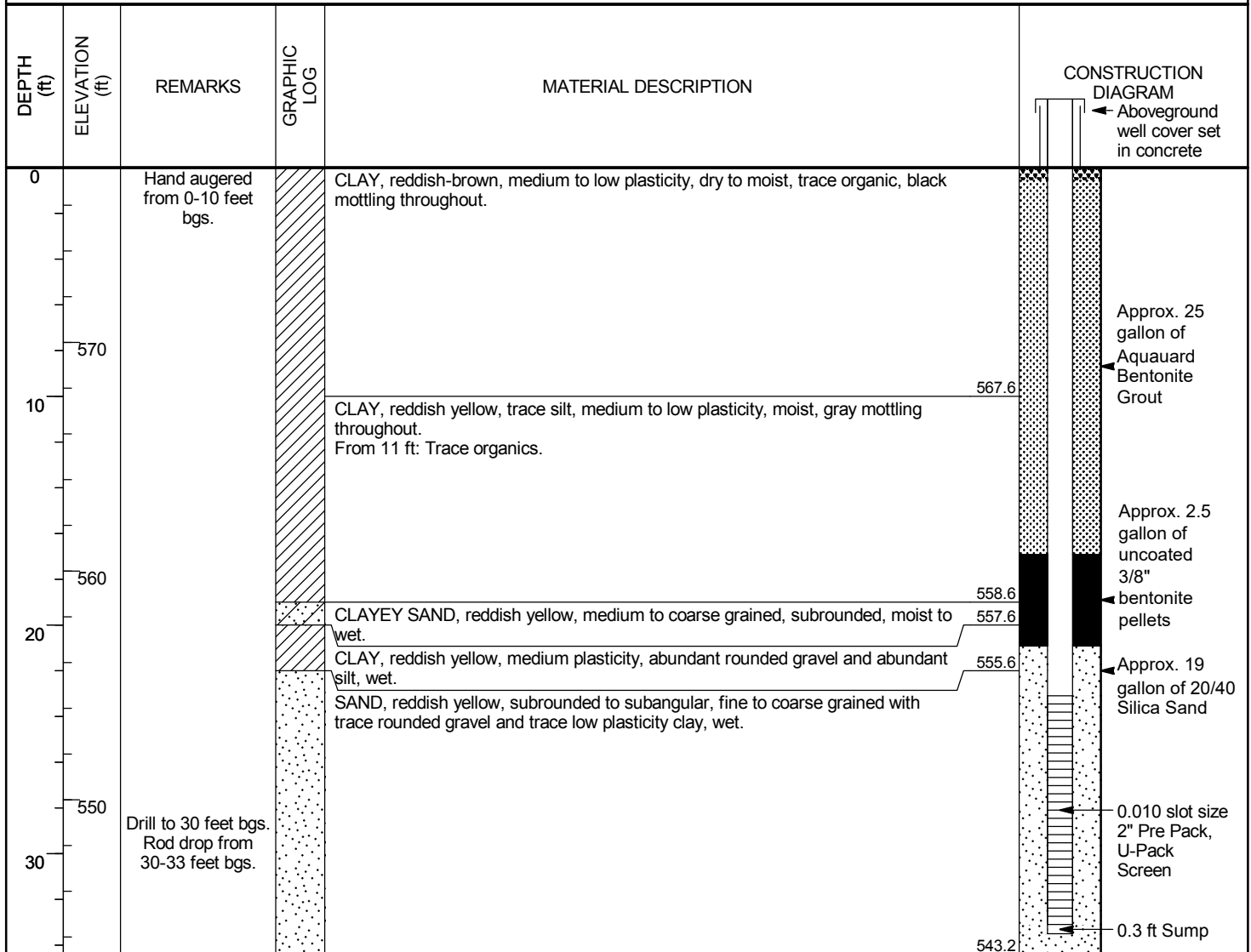
Bottom of borehole at 28.5 feet below ground surface (ft bgs).

| | |
|--|--|
| CLIENT <u>Southern Company Services</u> | PROJECT NAME <u>Plant Hammond Well Installation</u> |
| PROJECT NUMBER <u>GW6581E</u> | PROJECT LOCATION <u>Plant Hammond</u> |
| DATE STARTED <u>06/01/23</u> COMPLETED <u>06/01/23</u> | NORTHING <u>1549040.34 ft</u> EASTING <u>1942413.88 ft</u> |
| DRILLER <u>Cascade Drilling</u> | GROUND ELEVATION <u>577.39 ft</u> BORING DIAMETER <u>6 in.</u> |
| DRILLING METHOD <u>Sonic</u> | TOP OF CASING ELEVATION <u>580.44 ft</u> |
| SAMPLING METHOD <u>Sonic Core</u> | GEOPHYSICAL CONTRACTOR <u>---</u> |
| RIG TYPE <u>Terrasonic Compact Crawler</u> | LOGGED BY <u>T. Kessler</u> CHECKED BY <u>C. Hug</u> |



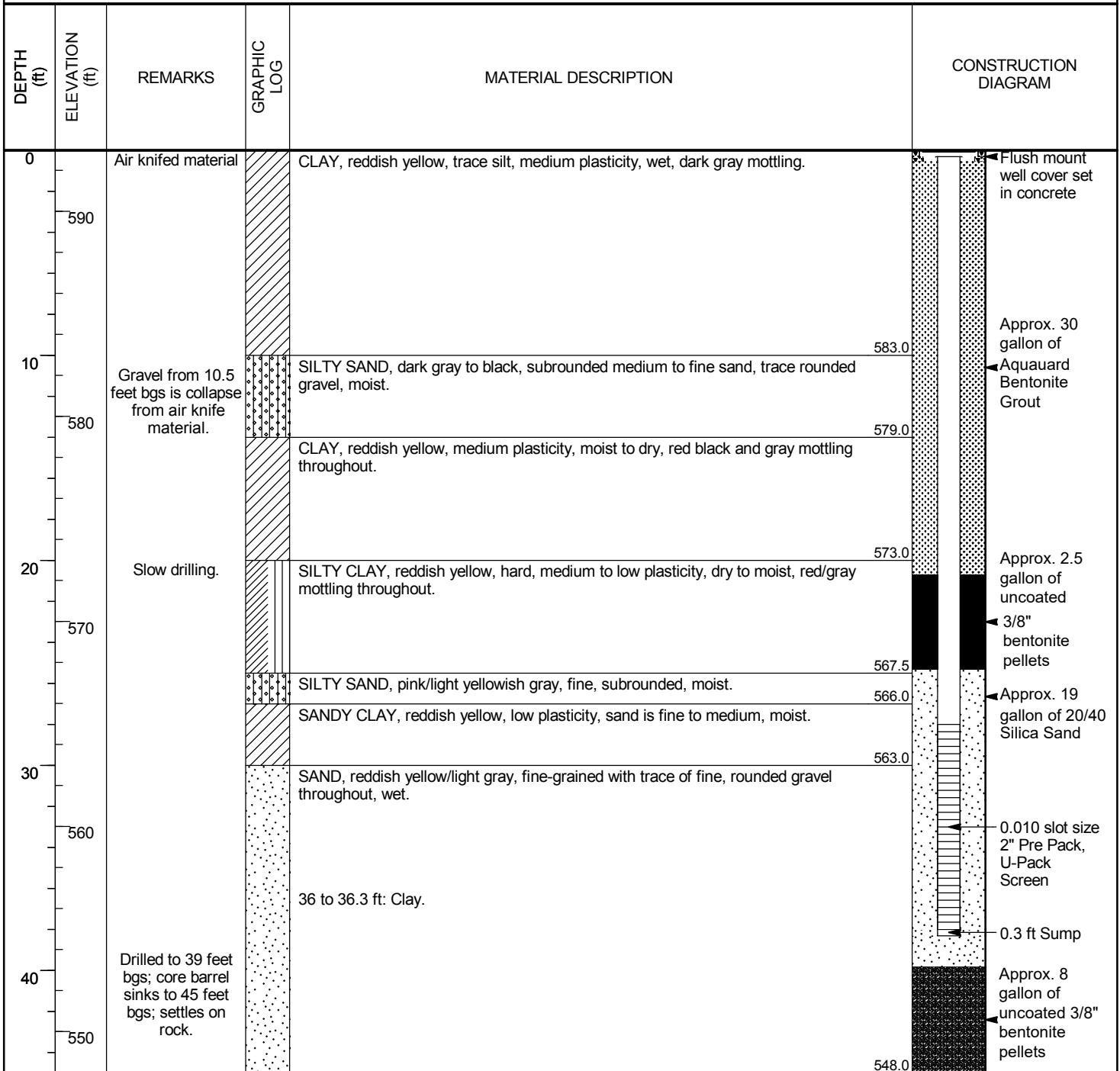
Bottom of borehole at 28.0 feet below ground surface (ft bgs).

| | |
|--|--|
| CLIENT <u>Southern Company Services</u> | PROJECT NAME <u>Plant Hammond Well Installation</u> |
| PROJECT NUMBER <u>GW6581E</u> | PROJECT LOCATION <u>Plant Hammond</u> |
| DATE STARTED <u>06/01/23</u> COMPLETED <u>06/02/23</u> | NORTHING <u>1548835.51 ft</u> EASTING <u>1942399.62 ft</u> |
| DRILLER <u>Cascade Drilling</u> | GROUND ELEVATION <u>577.64 ft</u> BORING DIAMETER <u>6 in.</u> |
| DRILLING METHOD <u>Sonic</u> | TOP OF CASING ELEVATION <u>580.59 ft</u> |
| SAMPLING METHOD <u>Sonic Core</u> | GEOPHYSICAL CONTRACTOR <u>---</u> |
| RIG TYPE <u>Terrasonic Compact Crawler</u> | LOGGED BY <u>T. Kessler</u> CHECKED BY <u>C. Hug</u> |



Bottom of borehole at 34.4 feet below ground surface (ft bgs).

| | |
|--|--|
| CLIENT <u>Southern Company Services</u> | PROJECT NAME <u>Plant Hammond Well Installation</u> |
| PROJECT NUMBER <u>GW6581E</u> | PROJECT LOCATION <u>Plant Hammond</u> |
| DATE STARTED <u>06/02/23</u> COMPLETED <u>06/02/23</u> | NORTHING <u>1548699.51 ft</u> EASTING <u>1940805.03 ft</u> |
| DRILLER <u>Cascade Drilling</u> | GROUND ELEVATION <u>592.98 ft</u> BORING DIAMETER <u>6 in.</u> |
| DRILLING METHOD <u>Sonic</u> | TOP OF CASING ELEVATION <u>592.66 ft</u> |
| SAMPLING METHOD <u>Sonic Core</u> | GEOPHYSICAL CONTRACTOR <u>---</u> |
| RIG TYPE <u>Terrasonic Compact Crawler</u> | LOGGED BY <u>T. Kessler</u> CHECKED BY <u>C. Hug</u> |



Bottom of borehole at 45.0 feet below ground surface (ft bgs).

APPENDIX C

Well Development and Equipment Calibration Forms

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
 Site: Plant Hammond
 Well ID: PI-07
 Total Depth (ft): 48.6
 Depth to Water (ft): 24.3
 Well Diameter (in): 2
 Well Volume (gal) = 0.041d²h: 3.99
 Well Volume (L) = gal * 3.785: 15.10

Project No.: GW15816
 Location: AP-1
 Pump Type/Model: monsoon
 Tubing Material: poly
 Pump Intake Depth (ft): 43
 Start/Stop Purge Time: 1205/1301
 Purge Rate (mL/min): 8000
 Total Purge Volume (L): 388

Sampling Date: 6/28/23
 Sampler's Name: AN
 Sample Collection Time: -
 Sample Purge Rate (mL/min): -
 Sample ID: -
 Laboratory Analyses: -

d = well diameter (inches); h = length of water column (feet)

Well Type: Flush Stick Up
 Well Lock: Yes No
 Well Cap Condition: Good Replace
 Well Tag Present: Yes No

Purge Method: Low-Flow Well Volume Other: -
 Sampling Method: Pump Discharge Other: -

QA/QC Collected? -
 QA/QC I.D. -

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|-----------------------------|------------|---------------------|----------|--|------------|------------------|---------------|----------------------|-------------------|---|
| 1205 | | | | | | | | | | begin pre purging |
| 1231 | 6.87 | 950.09 | -58.2 | 0.01 | 19.75 | 73 | 28.5 | 8000 | 168 | motor not filament stuck, had to clean multiple times |
| 1236 | 6.85 | 953.71 | -93.0 | 0.00 | 18.90 | 57.6 | 28.8 | 8000 | 208 | |
| 1241 | 6.85 | 959.95 | -71.8 | 4.28 | 19.68 | 108.3 AU | 28.1 | 8000 | 248 | had to remove filament |
| 1246 | 6.86 | 953.78 | -88.6 | 0.00 | 18.92 | 12.4 | 28.1 | 8000 | 288 | |
| 1251 | 6.86 | 965.59 | -78.3 | 0.24 | 18.97 | 50.1 | 28.1 | 8000 | 328 | |
| 1256 | 6.86 | 953.50 | -53.4 | 0.00 | 18.92 | 12.4 | 28.1 | 8000 | 348 | |
| 1301 | 6.86 | 954.07 | -53.4 | 0.00 | 18.96 | 8.32 | 28.1 | 8000 | 388 | |
| 6/28/23 AN | | | | | | | | | | |
| Stabilizing Criteria | +/- 0.1 SU | +/- 5% | | 0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater) | | < 5 NTUs | < 0.3 ft | > 100 mL < 250 mL | > 3L | |

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
 Site: Plant Hammond
 Well ID: PT-07
 Total Depth (ft): 48.6
 Depth to Water (ft): 24.3
 Well Diameter (in): 2
 Well Volume (gal) = 0.041d²h: 3.99
 Well Volume (L) = gal * 3.785: 15.10

Project No.: 6W6581G
 Location: AP-1
 Pump Type/Model: monsoon
 Tubing Material: poly
 Pump Intake Depth (ft): 43J
 Start/Stop Purge Time: 1303/1326
 Purge Rate (mL/min): 200
 Total Purge Volume (L): 5

Sampling Date: 01/28/23
 Sampler's Name: AN
 Sample Collection Time: -
 Sample Purge Rate (mL/min): -
 Sample ID: -
 Laboratory Analyses: -

d = well diameter (inches); h = length of water column (feet)

Well Type: Flush Stick Up
 Well Lock: Yes No
 Well Cap Condition: Good Replace
 Well Tag Present: Yes No

Purge Method: Low-Flow Well Volume Other: -
 Sampling Method: Pump Discharge Other: -

QA/QC Collected?
 QA/QC I.D.

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|-----------------------------|------------|---------------------|----------|--|------------|------------------|---------------|----------------------|-------------------|---|
| 1308 | 6.72 | 1046.8 | -68.3 | 0.02 | 20.5 | 14.6 | 25.8 | 200 | 1 | |
| 1313 | 6.69 | 1058.8 | -95.3 | 0.01 | 19.9 | 7.21 | 25.8 | 200 | 2 | |
| 1318 | 6.66 | 1073.6 | -65.1 | 0.02 | 21.46 | 6.25 | 25.5 | 200 | 3 | |
| 1323 | 6.60 | 1064.0 | -71.4 | 0.02 | 24.11 | 8.72 | 25.5 | 200 | 4 | |
| 1328 | 6.68 | 1045.1 | -64.1 | 0.02 | 22.27 | 4.15 | 25.5 | 200 | 5 | |
| <i>AN 01/28/23</i> | | | | | | | | | | |
| _____ | | | | | | | | | | |
| Stabilizing Criteria | +/- 0.1 SU | +/- 5% | | 0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater) | | < 5 NTUs | < 0.3 ft | > 100 mL < 250 mL | > 3L | |

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
 Site: Plant Hammond
 Well ID: PT-08
 Total Depth (ft): 422
 Depth to Water (ft): 227
 Well Diameter (in): 2
 Well Volume (gal) = 0.041d²h: 3.198
 Well Volume (L) = gal * 3.785: 12.104

Project No.: GW05816
 Location: AP-1
 Pump Type/Model: monsoon
 Tubing Material: poly
 Pump Intake Depth (ft): 32
 Start/Stop Purge Time: 0908/0940
 Purge Rate (mL/min): 250
 Total Purge Volume (L): 8

Sampling Date: 6/29/23
 Sampler's Name: AN
 Sample Collection Time: -
 Sample Purge Rate (mL/min): -
 Sample ID: -
 Laboratory Analyses: -

d = well diameter (inches); h = length of water column (feet)

Well Type: Flush Stick Up
 Well Lock: Yes No
 Well Cap Condition: Good Replace
 Well Tag Present: Yes No

Purge Method: Low-Flow Well Volume Other: -
 Sampling Method: Pump Discharge Other: -

QA/QC Collected? -
 QA/QC ID: -

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|------|---------|---------------------|----------|-----------|------------|------------------|---------------|---------------------|-------------------|---|
| 0915 | 6.63 | 1044.1 | -67.1 | 0.04 | 20.88 | 15.8 | 23.1 | 250 | 1.75 | Pre-purge for flow (~7 min) |
| 0920 | 6.67 | 1035.0 | -63.0 | 0.07 | 22.12 | 17.7 | 23.1 | 250 | 3 | |
| 0925 | 6.64 | 1032.0 | -91.1 | 0.07 | 21.93 | 12.62 | 23.1 | 250 | 4.25 | |
| 0930 | 6.64 | 1039.6 | -61.2 | 0.06 | 22.09 | 6.77 | 23.1 | 250 | 5.5 | |
| 0935 | 6.65 | 1037.5 | -59.7 | 0.05 | 22.00 | 5.71 | 23.1 | 250 | 6.75 | |
| 0940 | 6.65 | 1037.9 | -89.0 | 0.05 | 22.02 | 4.68 | 23.1 | 250 | 8 | |

6/29/23 AN

Stabilizing Criteria +/- 0.1 SU +/- 5% 0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater) < 5 NTUs < 0.3 ft > 100 mL < 250 mL > 3L

GROUNDWATER SAMPLING LOG SHEET

| | | |
|--|---|---|
| Client: <u>Southern company</u> | Project No.: <u>GW16551</u> | Sampling Date: <u>01/27/13</u> |
| Site: <u>Plant Hammond</u> | Location: <u>Plant Hammond</u> | Sampler's Name: <u>AN</u> |
| Well ID: <u>PT-09</u> | Pump Type/Model: <u>Mega monsoon pro</u> | Sample Collection Time: <u>-</u> |
| Total Depth (ft): <u>31</u> | Tubing Material: <u>poly</u> | Sample Purge Rate (mL/min): <u>-</u> |
| Depth to Water (ft): <u>14.65</u> | Pump Intake Depth (ft): <u>26</u> | Sample ID: <u>-</u> |
| Well Diameter (in): <u>2</u> | Start/Stop Purge Time: <u>0830/1123</u> | Laboratory Analyses: <u>-</u> |
| Well Volume (gal) = 0.041d ² h: <u>2.681</u> | Purge Rate (mL/min): <u>15,000, 250</u> | |
| Well Volume (L) = gal * 3.785: <u>10.14</u> | Total Purge Volume (L): <u>1458.75</u> | |
| <i>d = well diameter (inches); h = length of water column (feet)</i> | | |
| Well Type: Flush <input type="checkbox"/> Stick Up <input checked="" type="checkbox"/> | Purge Method: Low-Flow <input type="checkbox"/> Well Volume <input type="checkbox"/> Other: <input type="checkbox"/> | QA/QC Collected? <input type="checkbox"/> |
| Well Lock: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Sampling Method: Pump Discharge <input checked="" type="checkbox"/> Other: <input type="checkbox"/> | QA/QC I.D. <input type="checkbox"/> |
| Well Cap Condition: Good <input checked="" type="checkbox"/> Replace <input type="checkbox"/> | All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes <input type="checkbox"/> No <input type="checkbox"/> | |
| Well Tag Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|-----------------------------|------------|---------------------|----------|--|------------|------------------|---------------|---------------------|-------------------|---|
| 0852 | 6.72 | 815.25 | 2.9 | 0.03 | 18.39 | 3884 AU | 15.35 | 15,000 | 330 | pre-purged for 20 min |
| 0858 | 6.74 | 818.23 | 8.7 | 0.02 | 18.21 | 2747 AU | 15.3 | 15,000 | 405 | |
| 0902 | 6.74 | 817.77 | -5.7 | 0.01 | 18.21 | 2249 AU | 15.3 | 15,000 | 480 | |
| 0906 | 6.75 | 817.44 | 12.4 | 0.01 | 18.20 | 723 AU | 15.3 | 15,000 | 540 | |
| 0911 | 6.75 | 815.02 | -2.0 | 0.01 | 18.20 | 1205 AU | 15.3 | 15,000 | 615 | |
| 0916 | 6.75 | 816.97 | 14.1 | 0.01 | 18.21 | 128 AU | 15.3 | 15,000 | 690 | |
| 0921 | 6.75 | 814.78 | 16.3 | 0.01 | 18.23 | 691 AU | 15.3 | 15,000 | 765 | |
| 0926 | 6.75 | 817.14 | 12.37 | 0.00 | 18.25 | 37.8 | 15.3 | 15,000 | 840 | |
| 0931 | 6.75 | 818.88 | 16.6 | 0.00 | 18.25 | 37.3 | 15.3 | 15,000 | 915 | |
| 0936 | 6.75 | 817.76 | 15.7 | 0.00 | 18.21 | 7.3 | 15.3 | 15,000 | 990 | |
| 0941 | 6.75 | 816.15 | 8.2 | 0.00 | 18.26 | 57 | 15.3 | 15,000 | 1065 | |
| 0946 | 6.75 | 810.58 | 17.5 | 0.00 | 18.26 | 23.8 | 15.3 | 15,000 | 1140 | |
| 0951 | 6.75 | 818.96 | 18.0 | 0.00 | 18.20 | 21.2 | 15.3 | 15,000 | 1215 | |
| 0956 | 6.75 | 819.01 | 18.5 | 0.00 | 18.15 | 14.3 | 15.3 | 15,000 | 1290 | |
| 1001 | 6.75 | 817.45 | 18.4 | 0.00 | 18.26 | 11.9 | 15.3 | 15,000 | 1365 | |
| 1006 | 6.75 | 816.04 | 16.4 | 0.00 | 18.16 | 8.37 | 15.3 | 15,000 | 1440 | |
| 1011 | 6.76 | 814.40 | 19.8 | 0.01 | 18.19 | 23.7 | 15.3 | 250 | 1441.25 | switch to low flow to stabilize |
| 1016 | 6.72 | 824.81 | 15.3 | 0.04 | 21.58 | 17.4 | 14.9 | 250 | 1442.5 | |
| 1023 | 6.74 | 816.19 | 11.8 | 0.00 | 19.08 | 36.1 | 14.9 | 250 | 1443.75 | |
| Stabilizing Criteria | +/- 0.1 SU | +/- 5% | | 0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater) | | < 5 NTUs | < 0.3 ft | > 100 mL < 250 mL | > 3L | |

GROUNDWATER SAMPLING LOG SHEET

Client: Southern Company
 Site: Plant Hammond
 Well ID: PT-09
 Total Depth (ft): 31
 Depth to Water (ft): 14.65
 Well Diameter (in): 2
 Well Volume (gal) = 0.041d²h: 2.08
 Well Volume (L) = gal * 3.785: 10.14

Project No.: 6W0581
 Location: Plant Hammond
 Pump Type/Model: Mega Monsoon Pro
 Tubing Material: Poly
 Pump Intake Depth (ft): 26
 Start/Stop Purge Time: 0830 / 1123
 Purge Rate (mL/min): 15000, 250
 Total Purge Volume (L): 1458.75

Sampling Date: 06/27/2023
 Sampler's Name: AN
 Sample Collection Time: -
 Sample Purge Rate (mL/min): -
 Sample ID: -
 Laboratory Analyses: -

d = well diameter (inches); h = length of water column (feet)

Well Type: Flush Stick Up
 Well Lock: Yes No
 Well Cap Condition: Good Replace
 Well Tag Present: Yes No

Purge Method: Low-Flow Well Volume Other: -
 Sampling Method: Pump Discharge Other: -

QA/QC Collected? -
 QA/QC ID: -

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|-----------------------------|------------|---------------------|----------|--|------------|------------------|---------------|----------------------|-------------------|---|
| 1028 | 6.74 | 8104.55 | 12.6 | 0.00 | 18.96 | 30.3 | 14.9 | 250 | 1445 | |
| 1033 | 6.74 | 8104.37 | 12.8 | 0.00 | 18.97 | 25.4 | 14.9 | 250 | 1446.25 | |
| 1038 | 6.75 | 8102.81 | 13.0 | 0.00 | 18.89 | 21.0 | 14.9 | 250 | 1447.5 | |
| 1043 | 6.74 | 8103.05 | 1.3 | 0.00 | 18.85 | 18.9 | 14.9 | 250 | 1448.75 | |
| 1048 | 6.75 | 8103.71 | 12.9 | 0.00 | 18.88 | 19.9 | 14.9 | 250 | 1450 | |
| 1053 | 6.75 | 8103.74 | 1.7 | 0.00 | 18.84 | 14.2 | 14.9 | 250 | 1451.25 | |
| 1058 | 6.75 | 8103.80 | 0.4 | 0.00 | 18.90 | 13.2 | 14.9 | 250 | 1452.5 | |
| 1103 | 6.75 | 8103.59 | 0.4 | 0.00 | 18.90 | 9.57 | 14.9 | 250 | 1453.75 | |
| 1108 | 6.75 | 8105.55 | 12.7 | 0.00 | 18.94 | 7.39 | 14.9 | 250 | 1455 | |
| 1113 | 6.75 | 8104.61 | 2.6 | 0.00 | 18.88 | 4.26 | 14.9 | 250 | 1456.25 | |
| 1118 | 6.75 | 8104.98 | 13.6 | 0.00 | 18.97 | 3.93 | 14.9 | 250 | 1457.5 | |
| 1123 | 6.75 | 8105.03 | 14.3 | 0.00 | 18.84 | 3.03 | 14.9 | 250 | 1458.75 | |
| AN 10/27/23 | | | | | | | | | | |
| Stabilizing Criteria | +/- 0.1 SU | +/- 5% | | 0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater) | | < 5 NTUs | < 0.3 ft | > 100 mL < 250 mL | > 3L | |

GROUNDWATER SAMPLING LOG SHEET

| | | |
|--|---|--------------------------------------|
| Client: <u>SCS</u> | Project No.: <u>GW15816</u> | Sampling Date: <u>06/27/23</u> |
| Site: <u>Plant Hammond</u> | Location: <u>AD-2</u> | Sampler's Name: <u>AN</u> |
| Well ID: <u>PT-10</u> | Pump Type/Model: <u>monsoon</u> | Sample Collection Time: <u>-</u> |
| Total Depth (ft): <u>30.7</u> | Tubing Material: <u>poly</u> | Sample Purge Rate (mL/min): <u>-</u> |
| Depth to Water (ft): <u>14.80</u> | Pump Intake Depth (ft): <u>2.5</u> | Sample ID: <u>-</u> |
| Well Diameter (in): <u>2</u> | Start/Stop Purge Time: <u>1435/1618</u> | Laboratory Analyses: <u>-</u> |
| Well Volume (gal) = 0.041d ² h: <u>2.61</u> | Purge Rate (mL/min): <u>9000</u> | |
| Well Volume (L) = gal * 3.785: <u>9.88</u> | Total Purge Volume (L): <u>585</u> | |
| <i>d = well diameter (inches); h = length of water column (feet)</i> | | |
| Well Type: Flush <input type="checkbox"/> Stick Up <input checked="" type="checkbox"/> | Purge Method: Low-Flow Well Volume Other: <u>-</u> | QA/QC Collected? <u>-</u> |
| Well Lock: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Sampling Method: Pump Discharge Other: <u>-</u> | QA/QC I.D. <u>-</u> |
| Well Cap Condition: Good <input checked="" type="checkbox"/> Replace <input type="checkbox"/> | All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No | |
| Well Tag Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|-----------------------------|-------------------|---------------------|--------------|--|--------------|--------------------|--------------------|------------------------------------|-------------------|---|
| <u>1435</u> | | | | | | | | | | <u>Start purge, purged dry, waited + began to purge</u> |
| <u>1450</u> | | | | | | | | | | |
| <u>1504</u> | <u>6.93</u> | <u>856.25</u> | <u>-34.9</u> | <u>0.25</u> | <u>18.79</u> | <u>89.1</u> | <u>16.8</u> | <u>9000</u> | <u>180</u> | |
| <u>1509</u> | <u>6.94</u> | <u>855.27</u> | <u>-25.4</u> | <u>0.30</u> | <u>18.88</u> | <u>44.8</u> | <u>16.9</u> | <u>9000</u> | <u>225</u> | |
| <u>1514</u> | <u>6.93</u> | <u>851.86</u> | <u>-22.8</u> | <u>0.37</u> | <u>18.63</u> | <u>36.4</u> | <u>17.45</u> | <u>9000</u> | <u>270</u> | |
| <u>1519</u> | <u>6.93</u> | <u>856.43</u> | <u>-48.9</u> | <u>0.27</u> | <u>18.53</u> | <u>94.2</u> | <u>17.6</u> | <u>9000</u> | <u>315</u> | |
| <u>1524</u> | <u>6.91</u> | <u>859.79</u> | <u>-46.4</u> | <u>0.17</u> | <u>18.58</u> | <u>29.5</u> | <u>17.3</u> | <u>9000</u> | <u>360</u> | |
| <u>1529</u> | | | | | | | | <u>9000</u> | <u>405</u> | <u>Motor broke, had to replace</u> |
| <u>1603</u> | <u>6.91</u> | <u>856.85</u> | <u>-45.5</u> | <u>0.22</u> | <u>18.01</u> | <u>87.5AU</u> | <u>19.8</u> | <u>9000</u> | <u>450</u> | |
| <u>1608</u> | <u>6.90</u> | <u>857.92</u> | <u>-38.9</u> | <u>0.12</u> | <u>17.89</u> | <u>84.4</u> | <u>19.05</u> | <u>9000</u> | <u>495</u> | |
| <u>1613</u> | <u>6.89</u> | <u>858.38</u> | <u>-38.5</u> | <u>0.12</u> | <u>17.85</u> | <u>18.3</u> | <u>19.1</u> | <u>9000</u> | <u>540</u> | |
| <u>1618</u> | <u>6.88</u> | <u>850.15</u> | <u>-11.1</u> | <u>0.12</u> | <u>17.85</u> | <u>7.09</u> | <u>19.1</u> | <u>9000</u> | <u>585</u> | |
| <u>AN 6/27/23</u> | | | | | | | | | | |
| Stabilizing Criteria | +/- 0.1 SU | +/- 5% | | <small>0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)</small> | | < 5 NTUs | < 0.3 ft | > 100 mL < 250 mL | > 3L | |

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
 Site: Plant Hammond
 Well ID: PT-10
 Total Depth (ft): 30.7
 Depth to Water (ft): 14.8
 Well Diameter (in): 2
 Well Volume (gal) = 0.041d²h: 2.01
 Well Volume (L) = gal * 3.785: 9.8^a

Project No.: GW0581
 Location: AP-1
 Pump Type/Model: monsoon
 Tubing Material: poly
 Pump Intake Depth (ft): 25
 Start/Stop Purge Time: 1626/1636
 Purge Rate (mL/min): 300
 Total Purge Volume (L): 4.5

Sampling Date: 10/27/23
 Sampler's Name: AW
 Sample Collection Time: -
 Sample Purge Rate (mL/min): -
 Sample ID: -
 Laboratory Analyses: -

d = well diameter (inches); h = length of water column (feet)

Well Type: Flush Stick Up
 Well Lock: Yes No
 Well Cap Condition: Good Replace
 Well Tag Present: Yes No

Purge Method: Low-Flow Well Volume Other: -
 Sampling Method: Pump Discharge Other: -

QA/QC Collected? -
 QA/QC I.D. -

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|-----------------------------|------------|---------------------|----------|--|------------|------------------|---------------|----------------------|-------------------|---|
| 1626 | 6.87 | 800.70 | -18.4 | 0.01 | 18.91 | 4.80 | 15.4 | 300 | 1.5 | |
| 1631 | 6.87 | 805.22 | -12.1 | 0.02 | 18.88 | 2.34 | 15.4 | 300 | 3 | |
| 1636 | 6.88 | 803.27 | -37.8 | 0.04 | 18.76 | 1.09 | 15.4 | 300 | 4.5 | |
| <i>AW 10/27/23</i> | | | | | | | | | | |
| Stabilizing Criteria | +/- 0.1 SU | +/- 5% | | 0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater) | | < 5 NTUs | < 0.3 ft | > 100 mL < 250 mL | > 3L | |

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
 Site: Plant Hammond
 Well ID: MW-53
 Total Depth (ft): 36.6
 Depth to Water (ft): 15.8
 Well Diameter (in): 2
 Well Volume (gal) = 0.041d²h: 3.41
 Well Volume (L) = gal * 3.785: 12.91

Project No.: GW05816
 Location: AD-2
 Pump Type/Model: monsoon
 Tubing Material: POLY
 Pump Intake Depth (ft): 31.6
 Start/Stop Purge Time: 1058/1751
 Purge Rate (mL/min): 300
 Total Purge Volume (L): 14.9

Sampling Date: 6/29/23
 Sampler's Name: AN
 Sample Collection Time: -
 Sample Purge Rate (mL/min): -
 Sample ID: -
 Laboratory Analyses: -

d = well diameter (inches); h = length of water column (feet)

Well Type: Flush Stick Up
 Well Lock: Yes No
 Well Cap Condition: Good Replace
 Well Tag Present: Yes No

Purge Method: Low-Flow Well Volume Other: -
 Sampling Method: Pump Discharge Other: -

QA/QC Collected? -
 QA/QC I.D. -

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|-----------------------------|------------|---------------------|----------|--|------------|------------------|---------------|----------------------|-------------------|---|
| 1701 | 6.67 | 979.82 | 19.4 | 0.15 | 21.17 | 21.4 | 16.3 | 300 | 0.9 | pre purge for flow |
| 1706 | 6.57 | 910.53 | 19.4 | 0.09 | 22.62 | 42.2 | 16.0 | 300 | 2.4 | |
| 1711 | 6.53 | 886.85 | 14.4 | 0.00 | 22.09 | 41.9 | 16.0 | 300 | 3.9 | |
| 1716 | 6.52 | 876.81 | 17.0 | 0.04 | 21.33 | 45.0 | 16.0 | 300 | 5.4 | |
| 1721 | 6.52 | 871.62 | 8.4 | 0.02 | 19.62 | 58.0 | 16.0 | 300 | 6.9 | |
| 1726 | 6.51 | 871.99 | 14.1 | 0.01 | 19.46 | 18.0 | 16.0 | 300 | 7.4 | |
| 1731 | 6.64 | 953.33 | 8.5 | 0.00 | 18.55 | 31.6 | 16.0 | 300 | 8.9 | |
| 1736 | 6.64 | 952.14 | 15.4 | 0.00 | 18.57 | 11.78 | 16.0 | 300 | 10.4 | |
| 1741 | 6.64 | 949.89 | 13.5 | 0.00 | 18.52 | 7.09 | 16.0 | 300 | 11.9 | |
| 1746 | 6.64 | 950.31 | 6.2 | 0.00 | 18.57 | 5.15 | 16.0 | 300 | 13.4 | |
| 1751 | 6.64 | 951.32 | 5.6 | 0.00 | 18.64 | 4.93 | 16.0 | 300 | 14.9 | |
| <u>6/29/23 AN</u> | | | | | | | | | | |
| Stabilizing Criteria | +/- 0.1 SU | +/- 5% | | 0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater) | | < 5 NTUs | < 0.3 ft | > 100 mL < 250 mL | > 3L | |

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
 Site: Plant Hammond
 Well ID: MW-S4
 Total Depth (ft): 38.8
 Depth to Water (ft): 23.3
 Well Diameter (in): 2
 Well Volume (gal) = 0.041d²h: 2.54
 Well Volume (L) = gal * 3.785: 9.61

Project No.: GW105816
 Location: AP-2
 Pump Type/Model: monsoon
 Tubing Material: poly
 Pump Intake Depth (ft): 33.8J
 Start/Stop Purge Time: 1030/1116
 Purge Rate (mL/min): 10000
 Total Purge Volume (L): 460

Sampling Date: 6/29/23
 Sampler's Name: AN
 Sample Collection Time: -
 Sample Purge Rate (mL/min): -
 Sample ID: -
 Laboratory Analyses: -

d = well diameter (inches); h = length of water column (feet)

Well Type: Flush Stick Up
 Well Lock: Yes No
 Well Cap Condition: Good Replace
 Well Tag Present: Yes No

Purge Method: Low-Flow Well Volume Other: -
 Sampling Method: Pump Discharge Other: -

QA/QC Collected? -
 QA/QC I.D. -

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|--|------------|---------------------|----------|--|------------|------------------|---------------|----------------------|-------------------|---|
| 1051 | 6.77 | 743.50 | -1.8 | 0.02 | 20.88 | 8.03 AU | 27.3 | 10000 | 210 | |
| 1056 | 6.77 | 745.92 | -28.3 | 0.03 | 20.44 | average | 27.3 | 10000 | 260 | |
| 1101 | 6.78 | 753.73 | -27.2 | 0.02 | 20.30 | 68.6 | 28.0 | 10000 | 310 | |
| 1106 | 6.78 | 756.16 | -8.2 | 0.01 | 20.35 | 53.0 | 28.0 | 10000 | 360 | |
| 1111 | 6.78 | 759.90 | -8.7 | 0.02 | 20.30 | 12.94 | 28.0 | 10000 | 410 | |
| 1116 | 6.77 | 747.9 | -26.1 | 0.08 | 20.30 | 8.58 AU | 28.0 | 10000 | 460 | |
| AN 6/29/23 | | | | | | | | | | |
| (A large diagonal line is drawn across the remaining empty rows of the table.) | | | | | | | | | | |
| Stabilizing Criteria | +/- 0.1 SU | +/- 5% | | 0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater) | | < 5 NTUs | < 0.3 ft | > 100 mL < 250 mL | > 3L | |

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
 Site: Plant Hammond
 Well ID: MW-54
 Total Depth (ft): 38.8
 Depth to Water (ft): 23.3
 Well Diameter (in): 2
 Well Volume (gal) = 0.041d²h: 2.54
 Well Volume (L) = gal * 3.785: 9.61

Project No.: GW05816
 Location: AD-1
 Pump Type/Model: monsoon
 Tubing Material: poly
 Pump Intake Depth (ft): 33.8
 Start/Stop Purge Time: 1125/1237
 Purge Rate (mL/min): 250
 Total Purge Volume (L): 18

Sampling Date: 01/29/23
 Sampler's Name: AN
 Sample Collection Time: -
 Sample Purge Rate (mL/min): -
 Sample ID: -
 Laboratory Analyses: -

d = well diameter (inches); h = length of water column (feet)

Well Type: Flush Stick Up
 Well Lock: Yes No
 Well Cap Condition: Good Replace
 Well Tag Present: Yes No

Purge Method: Low-Flow Well Volume Other: -
 Sampling Method: Pump Discharge Other: -

QA/QC Collected?
 QA/QC I.D.

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|------|---------|---------------------|----------|-----------|------------|------------------|---------------|---------------------|-------------------|---|
| 1127 | 6.69 | 748.01 | -2.0 | 0.30 | 22.48 | 11.5 | 23.0 | 250 | 0.5 | |
| 1137 | 6.73 | 750.46 | -22.8 | 0.15 | 24.17 | 12.80 | 23.0 | 250 | 1.75 | |
| 1137 | 6.74 | 739.19 | -20.2 | 0.12 | 24.78 | 11.44 | 23.0 | 250 | 3 | |
| 1142 | 6.74 | 706.06 | -26.6 | 0.11 | 23.82 | 37.7 | 23.0 | 250 | 4.25 | |
| 1147 | 6.71 | 708.108 | -26.6 | 0.12 | 23.33 | 67.0 | 23.0 | 250 | 8.5 | |
| 1152 | 6.71 | 718.13 | -28.5 | 0.11 | 24.04 | 56.1 | 23.0 | 250 | 6.75 | |
| 1157 | 6.71 | 723.43 | -29.9 | 0.11 | 25.29 | 50.4 | 23.0 | 250 | 8 | |
| 1202 | 6.72 | 707.70 | -8.4 | 0.10 | 25.15 | 7.0 | 23.0 | 250 | 9.25 | |
| 1207 | 6.70 | 704.43 | -23.2 | 0.14 | 23.18 | 58.1 | 23.0 | 250 | 10.5 | |
| 1212 | 6.72 | 728.86 | -24.4 | 0.08 | 23.18 | 27.0 | 23.0 | 250 | 11.75 | |
| 1217 | 6.67 | 684.7 | -13.5 | 0.28 | 23.64 | 605.0 | 23.0 | 250 | 13 | |
| 1222 | 6.73 | 711.77 | -17.7 | 0.11 | 22.27 | 108.0 | 23.0 | 250 | 14.25 | |
| 1227 | 6.77 | 731.69 | -37.4 | 0.02 | 21.87 | 11.9 | 23.0 | 250 | 15.5 | |
| 1232 | 6.77 | 740.76 | -16.0 | 0.09 | 21.87 | 5.18 | 23.0 | 250 | 16.75 | |
| 1237 | 6.77 | 746.91 | -36.5 | 0.02 | 21.85 | 3.54 | 21.85 | 250 | 18 | |

AN 01/29/23

Stabilizing Criteria

+/- 0.1 SU +/- 5% 0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater) < 5 NTUs < 0.3 ft > 100 mL < 250 mL > 3L

EQUIPMENT CALIBRATION LOG

Field Technician: Amana Meely

Date: 01/27/23

Time (start): 0735

Time (finish): 0755

smarTroll SN: 883553

Turbidity Meter Type: LaMotte 2020we

SN: 7007-1416

Weather Conditions: 66-89°, sunny

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-------------------|---|----------|
| Specific Conductance (µS/cm) | 22250153 | 27.06 | 4490 | 4561.1 | 4486.0 | +/- 5% | <input checked="" type="radio"/> Yes No | |
| pH (4) | 11/23 | | 4.00 | 4.18 | 3.99 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (4) check | — | — | 4.00 | — | — | +/- 0.1 SU | Yes No | |
| pH (7) | 2210893 11/23 | 26.72 | 7.00 | 6.97 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (7) check | — | — | 7.00 | — | — | +/- 0.1 SU | Yes No | |
| pH (10) | 21320202 12/23 | 26.92 | 10.00 | 9.89 | 10.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (10) check | — | — | 10.00 | — | — | +/- 0.1 SU | Yes No | |
| ORP (mV) | 2390144 11/23 | 25.06 | 228 | 217.0 | 228.2 | +/- 20mV | <input checked="" type="radio"/> Yes No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 98.78% | 99.78% | +/- 6% saturation | <input checked="" type="radio"/> Yes No | |
| Turbidity 0 NTU | | | 0 | 0.00 | -0.01 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 1 NTU | | | 1.00 | 0.37 | 0.99 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 10 NTU | | | 10.00 | 12.42 | 9.87 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |

EQUIPMENT CALIBRATION LOG

Field Technician: Alan Anweery

Date: 6/17/23

Time (start): 0730

Time (finish): 0800

smarTroll SN: 883553

Turbidity Meter Type: LaMotte 2020we

SN: 7007-1416

Weather Conditions: 62-92° sunny

Facility and Unit: Plant Hammond

Project No: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|--------------------|---|----------|
| Specific Conductance (µS/cm) | 22250153 | 24.51 | 4490 | 4435.3 | 4490.8 | +/- 5 % | <input checked="" type="radio"/> Yes No | |
| pH (4) | 11/23 | | 4.00 | 4.21 | 3.99 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (4) check | - | - | 4.00 | - | - | +/- 0.1 SU | Yes No | |
| pH (7) | 2210893 11/23 | 23.80 | 7.00 | 7.00 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (7) check | - | - | 7.00 | - | - | +/- 0.1 SU | Yes No | |
| pH (10) | 21320202 12/23 | 24.24 | 10.00 | 9.85 | 10.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (10) check | - | - | 10.00 | - | - | +/- 0.1 SU | Yes No | |
| ORP (mV) | 21390144 11/23 | 22.83 | 228 | 231 | 228.4 | +/- 20mV | <input checked="" type="radio"/> Yes No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 98.60 | 100.52 | +/- 6 % saturation | <input checked="" type="radio"/> Yes No | |
| Turbidity 0 NTU | | | 0 | -0.02 | 0.00 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 1 NTU | | | 1.00 | 0.62 | 0.75 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 10 NTU | | | 10.00 | 12.35 | 9.96 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |

EQUIPMENT CALIBRATION LOG

Field Technician: Anana Neely

Date: 6/29/23

Time (start): 0735

Time (finish): 0755

smarTroll SN: 883553

Turbidity Meter Type: LaMotte 2020we

SN: 7007-1416

Weather Conditions: 65-94° sunny

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-----------------------|---|--|
| Specific Conductance (µS/cm) | 22250153 | 25.95 | 4490 | 4478.9 | 4494.5 | +/- 5 % | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (4) | 11/23 | | 4.00 | 4.24 | 3.99 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (4) check | - | - | 4.00 | - | - | +/- 0.1 SU | <input type="radio"/> Yes <input type="radio"/> No | |
| pH (7) | 2216893 11/23 | 25.14 | 7.00 | 6.91 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (7) check | - | | - | 7.00 | - | - | +/- 0.1 SU | <input type="radio"/> Yes <input type="radio"/> No |
| pH (10) | 21320202 12/23 | 25.92 | 10.00 | 9.86 | 10.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (10) check | - | | - | 10.00 | - | - | +/- 0.1 SU | <input type="radio"/> Yes <input type="radio"/> No |
| ORP (mV) | 21390144 11/23 | 23.50 | 228 | 226.2 | 228.0 | +/- 20mV | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 99.65 | 100.48 | +/- 6 % saturation | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 0 NTU | | | 0 | 0.27 | 0.00 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 1 NTU | | | 1.00 | 0.42 | 0.95 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 10 NTU | | | 10.00 | 9.82 | 10.04 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |

APPENDIX D

Certified Well Survey Data

| Well ID | Casing Northing | Casing Easting | Top of Casing Elevation | Nail or Pad Northing | Nail or Pad Easting | Nail or Pad Elevation | Description |
|-----------|-----------------|----------------|-------------------------|----------------------|---------------------|-----------------------|-------------|
| MW-53 | 1548835.51 | 1942399.62 | 580.59 | 1548835.08 | 1942400.25 | 577.64 | NAIL ON PAD |
| PT-09 | 1549049.74 | 1942393.11 | 580.35 | 1549049.80 | 1942394.19 | 577.33 | NAIL ON PAD |
| PT-10 | 1549040.34 | 1942413.88 | 580.44 | 1549040.30 | 1942415.26 | 577.39 | NAIL ON PAD |
| | | | | | | | |
| Benchmark | Northing | Easting | Elevation | | | | |
| BM-H3 | 1548237.413 | 1941013.571 | 574.63 | | | | |

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION OF THE NAIL IN THE CONCRETE PAD & THE PVC WELL CASING. DATE OF FIELD SURVEY & INSPECTION: 07/11/2023. FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NAD'83, 0.01 VERTICAL-NAVD '88. EQUIPMENT USED FOR HORIZONTAL LOCATION: TRIMBLE R12 RTK GPS & TRIMBLE S5 ROBOTIC TOTAL STATION. THE VERTICAL LOCATION OF EACH SURVEYED POINT WAS ESTABLISHED BASED UPON LEVEL RUNS WITH A DIGITAL LEVEL LOOP FROM VERTICAL CONTROL ESTABLISHED BY ON-SITE BENCHMARK BM-H3 SET BY GEL SOLUTIONS USING A TRIMBLE DINI LEVEL

Derek Bradner

7/17/2023



COA - LS003119
Exp. 12/31/2023

| Well ID | Casing Northing | Casing Easting | Top of Casing | Nail or Pad Northing | Nail or Pad Easting | Nail or Pad Elevation | Description |
|------------------|-----------------|----------------|------------------|----------------------|---------------------|-----------------------|-------------|
| MW-54 | 1548699.509 | 1940805.028 | 592.66 | 1548699.426 | 1940804.22 | 592.977 | Nail on Pad |
| PT-07 | 1548675.239 | 1940933.391 | 591.75 | 1548675.251 | 1940932.71 | 591.998 | Nail on Pad |
| PT-08 | 1548666.824 | 1940929.582 | 591.83 | 1548666.667 | 1940928.983 | 592.104 | Nail on Pad |
| | | | | | | | |
| Benchmark | Northing | Easting | Elevation | | | | |
| BM-H3 | 1548237.413 | 1941013.571 | 574.63 | | | | |

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION OF THE NAIL IN THE CONCRETE PAD & THE PVC WELL CASING. DATE OF FIELD SURVEY & INSPECTION: 08/29/2023. FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NAD'83, 0.01 VERTICAL-NAVD '88. EQUIPMENT USED FOR HORIZONTAL LOCATION: TRIMBLE R12 RTK GPS & TRIMBLE S5 ROBOTIC TOTAL STATION. THE VERTICAL LOCATION OF EACH SURVEYED POINT WAS ESTABLISHED BASED UPON LEVEL RUNS WITH A DIGITAL LEVEL LOOP FROM VERTICAL CONTROL ESTABLISHED BY ON-SITE BENCHMARK BM-H3 SET BY GEL SOLUTIONS USING A TRIMBLE DINI LEVEL

Derek Bradner

8/30/2023



COA - LS003119
Exp. 12/31/2023

APPENDIX B

Well Maintenance and Repair Documentation Memoranda

January 2023

MEMORANDUM

DATE: June 22, 2023

TO: Kristen Jurinko, P.G., Southern Company Services, Inc.

CC: Ben Hodges, P.G. Georgia Power Company

FROM: Geosyntec Consultants

SUBJECT: Plant Hammond Ash Pond 1 (AP-1) – Well Maintenance and Repair Documentation, Georgia Power Company

Geosyntec Consultants has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at Plant Hammond Ash Pond 1 (AP-1) during the January/February 2023 sampling event. All repairs and maintenance were completed in accordance with the Georgia Environmental Protection Division (GA EPD) guidance on routine visual inspections of groundwater monitoring wells. Documentation of the well inspections are provided as an attachment to this memorandum.

| Georgia Power Site/Unit | Date Performed | Well ID | Maintenance/ Repair Performed |
|--------------------------------|-----------------------|----------------|---|
| Hammond/AP-1 | 1/23/2023 | All Wells | Checked and cleared weep holes of debris. |

ATTACHMENT

Well Inspection Forms

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1, AP-2, AP-3
 Field Technician C. CAIN
 Well ID HGWA-1

Date (mm/dd/yyyy) 1/23/23
 Field Conditions sunny, 50F

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|---------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | | | <u>Sampling equipment</u> |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1/2/3
 Field Technician C. CRAIN
 Well ID HQWA-2

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny

| | Yes | No | Comments |
|---|-------------------------------------|-------------------------------------|---------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger. | | | <u>Sampling equipment</u> |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond Ap-1/2/3
 Field Technician C. COIN
 Well ID HGW/A-3

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 50

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|---------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | | | <u>Sampling equipment</u> |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond Ap-1/2/3
 Field Technician C. CAIN
 Well ID HGWA-43D

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny & C

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|-----------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | <u>Sampling Equipment</u> | | |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1, AP-2, AP-3
 Field Technician C. CAIN
 Well ID HGWA-440

Date (mm/dd/yyyy) 1/23/23
 Field Conditions SOF sunny

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|-----------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | <u>NA</u> | | |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>NA</u> |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1
 Field Technician C. CAIN
 Well ID HGLW6-7

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 50F

| | Yes | No | Comments |
|---|-------------------------------------|-------------------------------------|----------|
| 1 Location/Identification | | | |
| a | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a | <input checked="" type="checkbox"/> | <input type="checkbox"/> | NA |
| b | <input type="checkbox"/> | <input type="checkbox"/> | NA |
| c | <input type="checkbox"/> | <input type="checkbox"/> | NA |
| d | <input type="checkbox"/> | <input type="checkbox"/> | NA |
| e | <input type="checkbox"/> | <input type="checkbox"/> | NA |
| f | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

If yes, indicate here:

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1
 Field Technician C. CRIN
 Well ID HGWK-8

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny SDF

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | <u>NA</u> | | |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-1
 Field Technician A. Swanson
 Well ID HG-WC-9

Date (mm/dd/yyyy) 01/23/2023
 Field Conditions Sunny, 45°F

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|--|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | | | <u>dedicated water level data logger and water quality sonde</u> |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Handwritten notes:
 1-23-2023
 N/A
 1-23-2023
 N/A

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1
 Field Technician C. CAIN
 Well ID HGW-10

Date (mm/dd/yyyy) 1/27/23
 Field Conditions Sunny 50

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|-----------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | <u>NA</u> | | |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>NA</u> |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>NA</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |
| | | | |
| | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1
 Field Technician C. CALIN
 Well ID HGW-11

Date (mm/dd/yyyy) 4/23/23
 Field Conditions Sunny & 60

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|-----------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water; nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | | | <u>NA</u> |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | | | <u>NA</u> |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | | | <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | | | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | | | <u>NA</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1
 Field Technician C. CAIN
 Well ID HGWG-12

Date (mm/dd/yyyy) 4/23/23
 Field Conditions Sunny 50F

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|---------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | | | <u>Sampling equipment</u> |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>NA</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1
 Field Technician A. Szwast
 Well ID HG-VC-13

Date (mm/dd/yyyy) 01/27/2023
 Field Conditions SUNNY, 45°F

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|--|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | | | <i>dedicated water quality sonde, ^{dedicated} water level data logger, dedicated sampling equipment</i> |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>N/A</i> [Ⓢ] 1-23-2023 |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <i>N/A</i> |
| e If equipped with a water level data logger, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <i>N/A</i> [Ⓢ] 1-23-2023 |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1
 Field Technician C. CAIN
 Well ID APIA-1

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 50F

| | Yes | No | Comments |
|--|--|-------------------------------------|-----------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | | | <u>NA</u> |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | | | <u>NA</u> |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | | | <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | | | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | | | <u>NA</u> |
| f Does the well recharge adequately when purged? | <u>cc 1/23/23</u> <input checked="" type="checkbox"/> | | <u>NA</u> |
| g Does the well require redevelopment (low flow, excess turbidity)? | | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? If yes, indicate here: | | <input checked="" type="checkbox"/> | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1
 Field Technician C. GAIN
 Well ID MW-1

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny SOF

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|-----------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | <u>NA</u> | | |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| f Does the well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1
 Field Technician C. CAIN
 Well ID MW-5

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny SOF

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|---------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | | | <u>Sampling equipment</u> |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? If yes, indicate here: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1
 Field Technician C. CAIN
 Well ID MW-6

Date (mm/dd/yyyy) 4/23/23
 Field Conditions Sunny 50F

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|-----------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | <u>Sampling equipment</u> | | |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1
 Field Technician C. CRAIN
 Well ID MW-7

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 50F

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|-----------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | <u>Sampling equipment</u> | | |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <u>NA</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1/AP-2
 Field Technician C. CAIN
 Well ID MW-8

Date (mm/dd/yyyy) 1/23/23
 Field Conditions 50°F Sunny

| | Yes | No | Comments |
|---|-------------------------------------|-------------------------------------|-----------|
| 1 Location/Identification | | | |
| a | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a | <input type="checkbox"/> | | <u>NA</u> |
| b | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| c | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| d | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| e | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| f | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1
 Field Technician C. CAIN
 Well ID MW-19

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 50F

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|-----------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | <u>Sampling equipment</u> | | |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1
 Field Technician C. CAIN
 Well ID MW-20

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 50F

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|--------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | | | <u>Bladder equipment</u> |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond / A.D-1
 Field Technician A. Swast
 Well ID MW-24D

Date (mm/dd/yyyy) 01/23/2023
 Field Conditions SUNNY, 45°F

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | | | <u>dedicated sampling equipment</u> |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1
 Field Technician C. CAIN
 Well ID MW-25D

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 50

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|-------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | | | <u>sample equipment</u> |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-1
 Field Technician A. Szwest
 Well ID MW-26D

Date (mm/dd/yyyy) 01/23/2023
 Field Conditions sunny, 45°F

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | | | <u>dedicated sampling equipment</u> |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-1
 Field Technician A. Swast
 Well ID MW-27D

Date (mm/dd/yyyy) 01/23/2023
 Field Conditions Sunny, 45°F

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | | | <u>dedicated sampling equipment</u> |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <u>N/A (1-23-2023)</u> |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond
 Field Technician C. GAIN
 Well ID MW-28D

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 50F

| | Yes | No | Comments |
|---|--|-------------------------------------|---------------------------|
| 1 Location/Identification | | | |
| a | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d | <input type="checkbox"/> | <input type="checkbox"/> | |
| e | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a | Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | | |
| b | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <u>Sampling equipment</u> |
| c | <input type="checkbox"/> | <input type="checkbox"/> | |
| d | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> <u>NA</u> |
| e | <input type="checkbox"/> | <input type="checkbox"/> | |
| f | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| g | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1
 Field Technician C. GAIN
 Well ID MW-29

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 50F

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|---------------------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | | | <u>Sampling equipment</u> |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1
 Field Technician C. CAIN
 Well ID MW-30D

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 52F

| | Yes | No | Comments |
|---|-------------------------------------|-------------------------------------|-----------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger. | <u>NA</u> | | |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| f Does the well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1
 Field Technician C. CAIN
 Well ID MW-40D

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny SOF

| | Yes | No | Comments |
|---|-------------------------------------|-------------------------------------|-----------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger. | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| f Does the well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <u>NA</u> |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |
| | | | |
| | | | |

August 2023

MEMORANDUM

DATE: November 3, 2023

TO: Kristen Jurinko, P.G., Southern Company Services, Inc.

CC: Ben Hodges, P.G. Georgia Power Company

FROM: Geosyntec Consultants

SUBJECT: Plant Hammond Ash Pond 1 (AP-1) – Well Maintenance and Repair Documentation, Georgia Power Company

Geosyntec Consultants has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at Plant Hammond Ash Pond 1 (AP-1) during the August 2023 sampling event. All repairs and maintenance were completed in accordance with the Georgia Environmental Protection Division (GA EPD) guidance on routine visual inspections of groundwater monitoring wells. Documentation of the well inspections are provided as an attachment to this memorandum.

| Georgia Power Site/Unit | Date Performed | Well ID | Maintenance/ Repair Performed |
|--------------------------------|-----------------------|----------------|---|
| Hammond/AP-1 | 8/7/2023 -8/8/2023 | All Wells | Checked and cleared weep holes of debris. |

ATTACHMENT

Well Inspection Summary

Well Inspection

Site Name: Plant Hammond AP-1

Date: 08/07/2023

Permit Number: 057-023D(CCR)

Field Conditions: Sunny, 70° F

| | Location/Identification | | | |
|-----------------|-------------------------|--|---|--|
| | Visible and accessible | Properly identified with correct well ID | Located in high traffic area; does the well require protection from traffic | Acceptable drainage around well (no standing water, not located in obvious drainage flow path) |
| Well ID: | | | | |
| HGWA-1 | Yes | Yes | No | Yes |
| HGWA-2 | Yes | Yes | No | Yes |
| HGWA-3 | Yes | Yes | No | Yes |
| HGWA-43D | Yes | Yes | No | Yes |
| HGWA-44D | Yes | Yes | No | Yes |
| HGWC-7 | Yes | Yes | No | Yes |
| HGWC-8 | Yes | Yes | No | Yes |
| HGWC-9 | Yes | Yes | No | Yes |
| HGWC-10 | Yes | Yes | No | Yes |
| HGWC-11 | Yes | Yes | No | Yes |
| HGWC-12 | Yes | Yes | No | Yes |
| HGWC-13 | Yes | Yes | No | Yes |
| AP1A-1 | Yes | Yes | No | Yes |
| MW-1 | Yes | Yes | No | Yes |
| MW-5 | Yes | Yes | No | Yes |
| MW-6 | Yes | Yes | No | Yes |
| MW-7 | Yes | Yes | No | Yes |
| MW-8 | Yes | Yes | No | Yes |
| MW-19 | Yes | Yes | No | Yes |
| MW-20 | Yes | Yes | No | Yes |
| MW-24D | Yes | Yes | No | Yes |
| MW-25D | Yes | Yes | No | Yes |
| MW-26D | Yes | Yes | No | Yes |
| MW-27D | Yes | Yes | No | Yes |
| MW-28D | Yes | Yes | No | Yes |
| MW-29 | Yes | Yes | No | Yes |
| MW-30D | Yes | Yes | No | Yes |
| MW-40D | Yes | Yes | No | Yes |

Well Inspection

Site Name: Plant Hammond AP-1

Date: 08/07/2023

Permit Number: 057-023D(CCR)

Field Conditions: Sunny, 70° F

| Well ID: | Protective Casing | | | | |
|----------|--|---------------------------------|-----------------------|---|--|
| | Free from apparent damage and able to be secured | No degradation or deterioration | Functioning weep hole | Annular space clear of debris and water, or filled with pea gravel/sand | Locked and is the lock in good condition |
| HGWA-1 | Yes | Yes | Yes | Yes | Yes |
| HGWA-2 | Yes | Yes | Yes | Yes | Yes |
| HGWA-3 | Yes | Yes | Yes | Yes | Yes |
| HGWA-43D | Yes | Yes | Yes | Yes | Yes |
| HGWA-44D | Yes | Yes | Yes | Yes | Yes |
| HGWC-7 | Yes | Yes | Yes | Yes | Yes |
| HGWC-8 | Yes | Yes | Yes | Yes | Yes |
| HGWC-9 | Yes | Yes | Yes | Yes | Yes |
| HGWC-10 | Yes | Yes | Yes | Yes | Yes |
| HGWC-11 | Yes | Yes | Yes | Yes | Yes |
| HGWC-12 | Yes | Yes | Yes | Yes | Yes |
| HGWC-13 | Yes | Yes | Yes | Yes | Yes |
| AP1A-1 | Yes | Yes | Yes | Yes | Yes |
| MW-1 | Yes | Yes | Yes | Yes | Yes |
| MW-5 | Yes | Yes | Yes | Yes | Yes |
| MW-6 | Yes | Yes | Yes | Yes | Yes |
| MW-7 | Yes | Yes | Yes | Yes | Yes |
| MW-8 | Yes | Yes | Yes | Yes | Yes |
| MW-19 | Yes | Yes | Yes | Yes | Yes |
| MW-20 | Yes | Yes | Yes | Yes | Yes |
| MW-24D | Yes | Yes | Yes | Yes | Yes |
| MW-25D | Yes | Yes | Yes | Yes | Yes |
| MW-26D | Yes | Yes | Yes | Yes | Yes |
| MW-27D | Yes | Yes | Yes | Yes | Yes |
| MW-28D | Yes | Yes | Yes | Yes | Yes |
| MW-29 | Yes | Yes | Yes | Yes | Yes |
| MW-30D | Yes | Yes | Yes | Yes | Yes |
| MW-40D | Yes | Yes | Yes | Yes | Yes |

Well Inspection

Site Name: Plant Hammond AP-1

Date: 08/07/2023

Permit Number: 057-023D(CCR)

Field Conditions: Sunny, 70° F

| | Surface Pad | | | Internal Casing | | |
|-----------------|--|--|---|---|--|---|
| | Good condition (not cracked/ broken) | Sloped away from the protective casing | In complete contact with the ground surface and stable | Cap prevents entry of foreign material into the well | Free of kinks/bends, or any obstructions from foreign objects (such as bailers) | Properly vented for equilibration of air pressure |
| Well ID: | | | | | | |
| HGWA-1 | Yes | Yes | Yes | Yes | Yes | Yes |
| HGWA-2 | Yes | Yes | Yes | Yes | Yes | Yes |
| HGWA-3 | Yes | Yes | Yes | Yes | Yes | Yes |
| HGWA-43D | Yes | Yes | Yes | Yes | Yes | Yes |
| HGWA-44D | Yes | Yes | Yes | Yes | Yes | Yes |
| HGWC-7 | Yes | Yes | Yes | Yes | Yes | Yes |
| HGWC-8 | Yes | Yes | Yes | Yes | Yes | Yes |
| HGWC-9 | Yes | Yes | Yes | Yes | Yes | Yes |
| HGWC-10 | Yes | Yes | Yes | Yes | Yes | Yes |
| HGWC-11 | Yes | Yes | Yes | Yes | Yes | Yes |
| HGWC-12 | Yes | Yes | Yes | Yes | Yes | Yes |
| HGWC-13 | Yes | Yes | Yes | Yes | Yes | Yes |
| AP1A-1 | Yes | Yes | Yes | Yes | Yes | Yes |
| MW-1 | Yes | Yes | Yes | Yes | Yes | Yes |
| MW-5 | Yes | Yes | Yes | Yes | Yes | Yes |
| MW-6 | Yes | Yes | Yes | Yes | Yes | Yes |
| MW-7 | Yes | Yes | Yes | Yes | Yes | Yes |
| MW-8 | Yes | Yes | Yes | Yes | Yes | Yes |
| MW-19 | Yes | Yes | Yes | Yes | Yes | Yes |
| MW-20 | Yes | Yes | Yes | Yes | Yes | Yes |
| MW-24D | Yes | Yes | Yes | Yes | Yes | Yes |
| MW-25D | Yes | Yes | Yes | Yes | Yes | Yes |
| MW-26D | Yes | Yes | Yes | Yes | Yes | Yes |
| MW-27D | Yes | Yes | Yes | Yes | Yes | Yes |
| MW-28D | Yes | Yes | Yes | Yes | Yes | Yes |
| MW-29 | Yes | Yes | Yes | Yes | Yes | Yes |
| MW-30D | Yes | Yes | Yes | Yes | Yes | Yes |
| MW-40D | Yes | Yes | Yes | Yes | Yes | Yes |

Well Inspection

Site Name: Plant Hammond AP-1

Date: 08/07/2023

Permit Number: 057-023D(CCR)

Field Conditions: Sunny, 70° F

| Well ID: | Corrective actions as needed, by date: |
|----------|--|
| HGWA-1 | N/A |
| HGWA-2 | N/A |
| HGWA-3 | N/A |
| HGWA-43D | N/A |
| HGWA-44D | N/A |
| HGWC-7 | N/A |
| HGWC-8 | N/A |
| HGWC-9 | N/A |
| HGWC-10 | N/A |
| HGWC-11 | N/A |
| HGWC-12 | N/A |
| HGWC-13 | N/A |
| AP1A-1 | N/A |
| MW-1 | N/A |
| MW-5 | N/A |
| MW-6 | N/A |
| MW-7 | N/A |
| MW-8 | N/A |
| MW-19 | N/A |
| MW-20 | N/A |
| MW-24D | N/A |
| MW-25D | N/A |
| MW-26D | N/A |
| MW-27D | N/A |
| MW-28D | N/A |
| MW-29 | N/A |
| MW-30D | N/A |
| MW-40D | N/A |

APPENDIX C

Laboratory Analytical and Field Sampling Reports

LABORATORY ANALYTICAL REPORTS

January 2023

April 27, 2023

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: Hammond AP-1
Pace Project No.: 92649377

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between January 30, 2023 and February 03, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Stephanie Knott for
Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Noelia Gangi, Georgia Power
Ben Hodges, Georgia Power-CCR
Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Laura Midkiff, Georgia Power
Michael Smilley, Georgia Power
Tina Sullivan, ERM

Anthony Szwast, Geosyntec



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: Hammond AP-1

Pace Project No.: 92649377

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92649377

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|----------------|--------|----------------|----------------|
| 92649377001 | HAM-HGWC-9 | Water | 01/26/23 15:24 | 01/30/23 11:58 |
| 92649377002 | HAM-HGWC-11 | Water | 01/26/23 14:27 | 01/30/23 11:58 |
| 92649377003 | HAM-HGWC-12 | Water | 01/26/23 12:25 | 01/30/23 11:58 |
| 92649377004 | HAM-HGWC-13 | Water | 01/26/23 13:30 | 01/30/23 11:58 |
| 92649377005 | HAM-MW-5 | Water | 01/26/23 11:14 | 01/30/23 11:58 |
| 92649377006 | HAM-MW-6 | Water | 01/26/23 12:40 | 01/30/23 11:58 |
| 92649377007 | HAM-MW-7 | Water | 01/26/23 14:04 | 01/30/23 11:58 |
| 92649377008 | HAM-MW-19 | Water | 01/26/23 16:05 | 01/30/23 11:58 |
| 92649377009 | HAM-MW-20 | Water | 01/26/23 09:49 | 01/30/23 11:58 |
| 92649377010 | HAM-MW-24D | Water | 01/26/23 11:31 | 01/30/23 11:58 |
| 92649377011 | HAM-MW-25D | Water | 01/26/23 10:14 | 01/30/23 11:58 |
| 92649377012 | HAM-MW-26D | Water | 01/26/23 16:32 | 01/30/23 11:58 |
| 92649377013 | HAM-MW-28D | Water | 01/26/23 17:33 | 01/30/23 11:58 |
| 92649377014 | HAM-MW-29 | Water | 01/26/23 15:19 | 01/30/23 11:58 |
| 92649377015 | HAM-AP-1-FD-01 | Water | 01/26/23 14:48 | 01/30/23 11:58 |
| 92649377016 | HAM-HGWC-7 | Water | 01/27/23 13:15 | 01/30/23 11:58 |
| 92649377017 | HAM-HGWC-10 | Water | 01/27/23 15:01 | 01/30/23 11:58 |
| 92649377018 | HAM-MW-27D | Water | 01/27/23 17:35 | 01/30/23 11:58 |
| 92649377019 | HAM-HGWC-8 | Water | 02/01/23 10:02 | 02/03/23 12:50 |
| 92649377020 | HAM-AP-1-EB-01 | Water | 02/01/23 14:50 | 02/03/23 12:50 |
| 92649377021 | HAM-AP-1-FB-01 | Water | 02/01/23 14:40 | 02/03/23 12:50 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92649377

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-------------|------------------------|----------|-------------------|
| 92649377001 | HAM-HGWC-9 | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92649377002 | HAM-HGWC-11 | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92649377003 | HAM-HGWC-12 | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92649377004 | HAM-HGWC-13 | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92649377005 | HAM-MW-5 | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92649377006 | HAM-MW-6 | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92649377007 | HAM-MW-7 | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92649377008 | HAM-MW-19 | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92649377

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|----------------|------------------------|----------|-------------------|
| 92649377009 | HAM-MW-20 | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| 92649377010 | HAM-MW-24D | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| 92649377011 | HAM-MW-25D | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92649377012 | HAM-MW-26D | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| | | EPA 6010D | DRB | 1 |
| 92649377013 | HAM-MW-28D | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| 92649377014 | HAM-MW-29 | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| 92649377015 | HAM-AP-1-FD-01 | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1

Pace Project No.: 92649377

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|----------------|------------------------|----------|-------------------|
| 92649377016 | HAM-HGWC-7 | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| 92649377017 | HAM-HGWC-10 | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| 92649377018 | HAM-MW-27D | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| | | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| 92649377019 | HAM-HGWC-8 | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| | | EPA 6010D | MS | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| 92649377020 | HAM-AP-1-EB-01 | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| | | EPA 6010D | MS | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| 92649377021 | HAM-AP-1-FB-01 | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| | | EPA 6010D | MS | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92649377

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|------------------------|----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92649377001 | HAM-HGWC-9 | | | | | |
| | Performed by | Customer | | | 01/30/23 16:42 | |
| | pH | 7.07 | Std. Units | | 01/30/23 16:42 | |
| EPA 6010D | Calcium | 173 | mg/L | 1.0 | 03/21/23 16:21 | |
| EPA 6020B | Antimony | 0.00092J | mg/L | 0.0030 | 02/03/23 20:20 | |
| EPA 6020B | Barium | 0.069 | mg/L | 0.0050 | 02/03/23 20:20 | |
| EPA 6020B | Boron | 1.9 | mg/L | 0.040 | 02/03/23 20:20 | |
| EPA 6020B | Chromium | 0.0013J | mg/L | 0.0050 | 02/06/23 13:32 | |
| EPA 6020B | Cobalt | 0.00068J | mg/L | 0.0050 | 02/03/23 20:20 | |
| EPA 6020B | Lithium | 0.0032J | mg/L | 0.030 | 02/03/23 20:20 | |
| EPA 6020B | Molybdenum | 0.021 | mg/L | 0.010 | 02/03/23 20:20 | |
| SM 2540C-2015 | Total Dissolved Solids | 745 | mg/L | 25.0 | 01/31/23 12:43 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 86.9 | mg/L | 1.0 | 02/01/23 11:20 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.11 | mg/L | 0.10 | 02/01/23 11:20 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 217 | mg/L | 4.0 | 02/04/23 14:55 | |
| 92649377002 | HAM-HGWC-11 | | | | | |
| | Performed by | Customer | | | 01/30/23 16:43 | |
| | pH | 6.23 | Std. Units | | 01/30/23 16:43 | |
| EPA 6010D | Calcium | 113 | mg/L | 1.0 | 03/21/23 16:26 | |
| EPA 6020B | Barium | 0.031 | mg/L | 0.0050 | 02/03/23 20:26 | |
| EPA 6020B | Boron | 0.50 | mg/L | 0.040 | 02/03/23 20:26 | |
| EPA 6020B | Chromium | 0.0012J | mg/L | 0.0050 | 02/06/23 13:38 | |
| EPA 6020B | Molybdenum | 0.022 | mg/L | 0.010 | 02/03/23 20:26 | |
| EPA 6020B | Selenium | 0.010 | mg/L | 0.0050 | 02/03/23 20:26 | |
| SM 2540C-2015 | Total Dissolved Solids | 429 | mg/L | 25.0 | 01/31/23 12:44 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 8.8 | mg/L | 1.0 | 02/01/23 11:37 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.20 | mg/L | 0.10 | 02/01/23 11:37 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 209 | mg/L | 4.0 | 02/04/23 11:43 | |
| 92649377003 | HAM-HGWC-12 | | | | | |
| | Performed by | Customer | | | 01/30/23 16:43 | |
| | pH | 7.10 | Std. Units | | 01/30/23 16:43 | |
| EPA 6010D | Calcium | 154 | mg/L | 1.0 | 03/21/23 16:31 | |
| EPA 6020B | Arsenic | 0.0025J | mg/L | 0.0050 | 02/03/23 20:32 | |
| EPA 6020B | Barium | 0.076 | mg/L | 0.0050 | 02/03/23 20:32 | |
| EPA 6020B | Boron | 1.5 | mg/L | 0.040 | 02/03/23 20:32 | |
| EPA 6020B | Cobalt | 0.0012J | mg/L | 0.0050 | 02/03/23 20:32 | |
| EPA 6020B | Lithium | 0.0058J | mg/L | 0.030 | 02/03/23 20:32 | |
| EPA 6020B | Molybdenum | 0.048 | mg/L | 0.010 | 02/03/23 20:32 | |
| SM 2540C-2015 | Total Dissolved Solids | 624 | mg/L | 25.0 | 01/31/23 12:44 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 34.6 | mg/L | 1.0 | 02/01/23 11:54 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.21 | mg/L | 0.10 | 02/01/23 11:54 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 228 | mg/L | 4.0 | 02/04/23 11:57 | |
| 92649377004 | HAM-HGWC-13 | | | | | |
| | Performed by | Customer | | | 01/30/23 16:43 | |
| | pH | 6.90 | Std. Units | | 01/30/23 16:43 | |
| EPA 6010D | Calcium | 234 | mg/L | 1.0 | 03/21/23 16:36 | |
| EPA 6020B | Arsenic | 0.53 | mg/L | 0.0050 | 02/03/23 20:49 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92649377

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|------------------------|-----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92649377004 | HAM-HGWC-13 | | | | | |
| EPA 6020B | Barium | 0.079 | mg/L | 0.0050 | 02/03/23 20:49 | |
| EPA 6020B | Beryllium | 0.000099J | mg/L | 0.00050 | 02/06/23 14:02 | |
| EPA 6020B | Boron | 0.83 | mg/L | 0.040 | 02/06/23 14:02 | |
| EPA 6020B | Cobalt | 0.012 | mg/L | 0.0050 | 02/03/23 20:49 | |
| EPA 6020B | Lithium | 0.040 | mg/L | 0.030 | 02/03/23 20:49 | |
| EPA 6020B | Molybdenum | 0.023 | mg/L | 0.010 | 02/03/23 20:49 | |
| EPA 6020B | Thallium | 0.00031J | mg/L | 0.0010 | 02/03/23 20:49 | |
| SM 2540C-2015 | Total Dissolved Solids | 962 | mg/L | 25.0 | 01/31/23 12:45 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 12.5 | mg/L | 1.0 | 02/01/23 12:12 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.40 | mg/L | 0.10 | 02/01/23 12:12 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 495 | mg/L | 10.0 | 02/04/23 12:12 | |
| 92649377005 | HAM-MW-5 | | | | | |
| | Performed by | Customer | | | 01/30/23 16:44 | |
| | pH | 6.07 | Std. Units | | 01/30/23 16:44 | |
| EPA 6010D | Calcium | 76.1 | mg/L | 1.0 | 03/21/23 17:15 | |
| EPA 6020B | Barium | 0.050 | mg/L | 0.0050 | 02/03/23 20:55 | |
| EPA 6020B | Boron | 0.044 | mg/L | 0.040 | 02/06/23 14:08 | |
| EPA 6020B | Chromium | 0.0032J | mg/L | 0.0050 | 02/06/23 14:08 | |
| EPA 6020B | Selenium | 0.0045J | mg/L | 0.0050 | 02/03/23 20:55 | |
| SM 2540C-2015 | Total Dissolved Solids | 363 | mg/L | 25.0 | 01/31/23 12:45 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 0.86J | mg/L | 1.0 | 02/01/23 12:29 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.087J | mg/L | 0.10 | 02/01/23 12:29 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 137 | mg/L | 3.0 | 02/04/23 12:27 | |
| 92649377006 | HAM-MW-6 | | | | | |
| | Performed by | Customer | | | 01/30/23 16:44 | |
| | pH | 6.90 | Std. Units | | 01/30/23 16:44 | |
| EPA 6010D | Calcium | 180 | mg/L | 1.0 | 03/21/23 17:20 | |
| EPA 6020B | Barium | 0.079 | mg/L | 0.0050 | 02/03/23 21:01 | |
| EPA 6020B | Boron | 0.71 | mg/L | 0.040 | 02/06/23 14:14 | |
| EPA 6020B | Chromium | 0.0014J | mg/L | 0.0050 | 02/06/23 14:14 | |
| EPA 6020B | Cobalt | 0.00044J | mg/L | 0.0050 | 02/03/23 21:01 | |
| EPA 6020B | Molybdenum | 0.0029J | mg/L | 0.010 | 02/03/23 21:01 | |
| SM 2540C-2015 | Total Dissolved Solids | 646 | mg/L | 25.0 | 01/31/23 12:46 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 30.5 | mg/L | 1.0 | 02/01/23 12:47 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.088J | mg/L | 0.10 | 02/01/23 12:47 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 203 | mg/L | 4.0 | 02/04/23 12:41 | |
| 92649377007 | HAM-MW-7 | | | | | |
| | Performed by | Customer | | | 01/30/23 16:46 | |
| | pH | 6.23 | Std. Units | | 01/30/23 16:46 | |
| EPA 6010D | Calcium | 21.6 | mg/L | 1.0 | 03/21/23 17:25 | |
| EPA 6020B | Barium | 0.044 | mg/L | 0.0050 | 02/03/23 21:07 | |
| EPA 6020B | Boron | 0.033J | mg/L | 0.040 | 02/06/23 14:20 | |
| EPA 6020B | Chromium | 0.0017J | mg/L | 0.0050 | 02/06/23 14:20 | |
| SM 2540C-2015 | Total Dissolved Solids | 89.0 | mg/L | 25.0 | 01/31/23 12:47 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 1.2 | mg/L | 1.0 | 02/01/23 13:56 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.060J | mg/L | 0.10 | 02/01/23 13:56 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92649377

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|------------------------|----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92649377007 | HAM-MW-7 | | | | | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 26.0 | mg/L | 1.0 | 02/01/23 13:56 | |
| 92649377008 | HAM-MW-19 | | | | | |
| | Performed by | Customer | | | 01/30/23 16:46 | |
| | pH | 6.13 | Std. Units | | 01/30/23 16:46 | |
| EPA 6010D | Calcium | 118 | mg/L | 1.0 | 03/21/23 17:30 | M1 |
| EPA 6020B | Barium | 0.039 | mg/L | 0.0050 | 02/03/23 21:13 | |
| EPA 6020B | Boron | 0.36 | mg/L | 0.040 | 02/06/23 14:26 | |
| EPA 6020B | Chromium | 0.0011J | mg/L | 0.0050 | 02/06/23 14:26 | |
| EPA 6020B | Cobalt | 0.022 | mg/L | 0.0050 | 02/03/23 21:13 | |
| EPA 6020B | Lithium | 0.0038J | mg/L | 0.030 | 02/03/23 21:13 | |
| EPA 6020B | Molybdenum | 0.012 | mg/L | 0.010 | 02/03/23 21:13 | |
| EPA 6020B | Selenium | 0.0056 | mg/L | 0.0050 | 02/03/23 21:13 | |
| SM 2540C-2015 | Total Dissolved Solids | 490 | mg/L | 25.0 | 01/31/23 12:48 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 7.7 | mg/L | 1.0 | 02/01/23 14:14 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.098J | mg/L | 0.10 | 02/01/23 14:14 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 214 | mg/L | 5.0 | 02/04/23 13:41 | |
| 92649377009 | HAM-MW-20 | | | | | |
| | Performed by | Customer | | | 01/30/23 16:46 | |
| | pH | 6.95 | Std. Units | | 01/30/23 16:46 | |
| EPA 6010D | Calcium | 122 | mg/L | 1.0 | 03/21/23 17:49 | |
| EPA 6020B | Barium | 0.097 | mg/L | 0.0050 | 02/03/23 21:19 | |
| EPA 6020B | Boron | 0.099 | mg/L | 0.040 | 02/06/23 14:32 | |
| SM 2540C-2015 | Total Dissolved Solids | 482 | mg/L | 25.0 | 01/31/23 12:48 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 30.0 | mg/L | 1.0 | 02/01/23 15:06 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.081J | mg/L | 0.10 | 02/01/23 15:06 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 109 | mg/L | 2.0 | 02/04/23 14:25 | |
| 92649377010 | HAM-MW-24D | | | | | |
| | Performed by | Customer | | | 01/30/23 16:46 | |
| | pH | 7.60 | Std. Units | | 01/30/23 16:46 | |
| EPA 6010D | Calcium | 107 | mg/L | 1.0 | 03/21/23 17:54 | |
| EPA 6020B | Barium | 0.054 | mg/L | 0.0050 | 02/03/23 21:25 | |
| EPA 6020B | Boron | 0.47 | mg/L | 0.040 | 02/06/23 14:37 | |
| EPA 6020B | Lithium | 0.0025J | mg/L | 0.030 | 02/03/23 21:25 | |
| EPA 6020B | Molybdenum | 0.0012J | mg/L | 0.010 | 02/03/23 21:25 | |
| SM 2540C-2015 | Total Dissolved Solids | 412 | mg/L | 25.0 | 01/31/23 12:49 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 38.0 | mg/L | 1.0 | 02/01/23 15:23 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.083J | mg/L | 0.10 | 02/01/23 15:23 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 152 | mg/L | 3.0 | 02/04/23 14:40 | |
| 92649377011 | HAM-MW-25D | | | | | |
| | Performed by | Customer | | | 01/30/23 16:48 | |
| | pH | 7.74 | Std. Units | | 01/30/23 16:48 | |
| EPA 6010D | Calcium | 21.8 | mg/L | 1.0 | 03/21/23 17:58 | |
| EPA 6020B | Barium | 0.65 | mg/L | 0.0050 | 02/03/23 21:31 | |
| EPA 6020B | Boron | 0.30 | mg/L | 0.040 | 02/06/23 14:43 | |
| EPA 6020B | Chromium | 0.0012J | mg/L | 0.0050 | 02/06/23 14:43 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92649377

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|------------------------|----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92649377011 | HAM-MW-25D | | | | | |
| EPA 6020B | Lithium | 0.036 | mg/L | 0.030 | 02/03/23 21:31 | |
| SM 2540C-2015 | Total Dissolved Solids | 346 | mg/L | 25.0 | 01/31/23 12:49 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 17.2 | mg/L | 1.0 | 02/02/23 13:14 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 1.6 | mg/L | 0.10 | 02/02/23 13:14 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 0.59J | mg/L | 1.0 | 02/02/23 13:14 | |
| 92649377012 | HAM-MW-26D | | | | | |
| | Performed by | Customer | | | 01/30/23 16:48 | |
| | pH | 7.14 | Std. Units | | 01/30/23 16:48 | |
| EPA 6010D | Calcium | 179 | mg/L | 1.0 | 03/21/23 18:13 | |
| EPA 6020B | Barium | 0.065 | mg/L | 0.0050 | 02/03/23 21:37 | |
| EPA 6020B | Boron | 1.8 | mg/L | 0.040 | 02/06/23 14:49 | |
| EPA 6020B | Cobalt | 0.00051J | mg/L | 0.0050 | 02/03/23 21:37 | |
| EPA 6020B | Lithium | 0.0031J | mg/L | 0.030 | 02/03/23 21:37 | |
| EPA 6020B | Molybdenum | 0.028 | mg/L | 0.010 | 02/03/23 21:37 | |
| SM 2540C-2015 | Total Dissolved Solids | 741 | mg/L | 25.0 | 01/31/23 12:49 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 83.6 | mg/L | 1.0 | 02/02/23 13:33 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.11 | mg/L | 0.10 | 02/02/23 13:33 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 240 | mg/L | 5.0 | 02/02/23 16:23 | |
| 92649377013 | HAM-MW-28D | | | | | |
| | Performed by | Customer | | | 02/15/23 12:06 | |
| | pH | 7.67 | Std. Units | | 02/15/23 12:06 | |
| EPA 6010D | Calcium | 64.4 | mg/L | 1.0 | 03/21/23 18:18 | |
| EPA 6020B | Barium | 0.80 | mg/L | 0.0050 | 02/03/23 21:43 | |
| EPA 6020B | Boron | 0.29 | mg/L | 0.040 | 02/06/23 14:55 | |
| EPA 6020B | Lithium | 0.011J | mg/L | 0.030 | 02/03/23 21:43 | |
| EPA 6020B | Molybdenum | 0.0025J | mg/L | 0.010 | 02/03/23 21:43 | |
| SM 2540C-2015 | Total Dissolved Solids | 349 | mg/L | 25.0 | 01/31/23 12:50 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 27.7 | mg/L | 1.0 | 02/02/23 13:51 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.22 | mg/L | 0.10 | 02/02/23 13:51 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 40.8 | mg/L | 1.0 | 02/02/23 13:51 | |
| 92649377014 | HAM-MW-29 | | | | | |
| | Performed by | Customer | | | 01/30/23 16:48 | |
| | pH | 7.22 | Std. Units | | 01/30/23 16:48 | |
| EPA 6010D | Calcium | 146 | mg/L | 1.0 | 03/21/23 18:23 | |
| EPA 6020B | Barium | 0.076 | mg/L | 0.0050 | 02/03/23 22:01 | |
| EPA 6020B | Boron | 1.0 | mg/L | 0.040 | 02/06/23 15:13 | |
| EPA 6020B | Cobalt | 0.00056J | mg/L | 0.0050 | 02/03/23 22:01 | |
| EPA 6020B | Lithium | 0.0019J | mg/L | 0.030 | 02/03/23 22:01 | |
| EPA 6020B | Molybdenum | 0.0029J | mg/L | 0.010 | 02/03/23 22:01 | |
| SM 2540C-2015 | Total Dissolved Solids | 632 | mg/L | 25.0 | 01/31/23 12:51 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 62.4 | mg/L | 1.0 | 02/02/23 14:10 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.068J | mg/L | 0.10 | 02/02/23 14:10 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 161 | mg/L | 3.0 | 02/02/23 17:00 | |
| 92649377015 | HAM-AP-1-FD-01 | | | | | |
| EPA 6010D | Calcium | 113 | mg/L | 1.0 | 03/21/23 18:28 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92649377

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|------------------------|----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92649377015 | HAM-AP-1-FD-01 | | | | | |
| EPA 6020B | Barium | 0.031 | mg/L | 0.0050 | 02/03/23 22:07 | |
| EPA 6020B | Boron | 0.51 | mg/L | 0.040 | 02/06/23 15:19 | |
| EPA 6020B | Molybdenum | 0.022 | mg/L | 0.010 | 02/03/23 22:07 | |
| EPA 6020B | Selenium | 0.0095 | mg/L | 0.0050 | 02/03/23 22:07 | |
| SM 2540C-2015 | Total Dissolved Solids | 509 | mg/L | 25.0 | 01/31/23 12:51 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 9.2 | mg/L | 1.0 | 02/02/23 14:29 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.20 | mg/L | 0.10 | 02/02/23 14:29 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 221 | mg/L | 4.0 | 02/02/23 17:19 | |
| 92649377016 | HAM-HGWC-7 | | | | | |
| | Performed by | Customer | | | 01/30/23 16:50 | |
| | pH | 7.25 | Std. Units | | 01/30/23 16:50 | |
| EPA 6010D | Calcium | 124 | mg/L | 1.0 | 03/21/23 18:32 | |
| EPA 6020B | Barium | 0.065 | mg/L | 0.0050 | 02/03/23 22:13 | |
| EPA 6020B | Boron | 0.93 | mg/L | 0.040 | 02/06/23 15:25 | |
| EPA 6020B | Cadmium | 0.00019J | mg/L | 0.00050 | 02/03/23 22:13 | |
| EPA 6020B | Chromium | 0.0014J | mg/L | 0.0050 | 02/06/23 15:25 | |
| EPA 6020B | Cobalt | 0.00067J | mg/L | 0.0050 | 02/03/23 22:13 | |
| EPA 6020B | Lithium | 0.0018J | mg/L | 0.030 | 02/03/23 22:13 | |
| EPA 6020B | Molybdenum | 0.039 | mg/L | 0.010 | 02/03/23 22:13 | |
| SM 2540C-2015 | Total Dissolved Solids | 473 | mg/L | 25.0 | 01/31/23 12:52 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 40.0 | mg/L | 1.0 | 02/02/23 14:48 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.10 | mg/L | 0.10 | 02/02/23 14:48 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 119 | mg/L | 2.0 | 02/02/23 17:38 | |
| 92649377017 | HAM-HGWC-10 | | | | | |
| | Performed by | Customer | | | 01/30/23 16:50 | |
| | pH | 6.89 | Std. Units | | 01/30/23 16:50 | |
| EPA 6010D | Calcium | 60.4 | mg/L | 1.0 | 03/21/23 18:37 | |
| EPA 6020B | Barium | 0.041 | mg/L | 0.0050 | 02/03/23 22:19 | |
| EPA 6020B | Boron | 0.065 | mg/L | 0.040 | 02/06/23 15:31 | |
| EPA 6020B | Chromium | 0.0012J | mg/L | 0.0050 | 02/06/23 15:31 | |
| EPA 6020B | Selenium | 0.0035J | mg/L | 0.0050 | 02/03/23 22:19 | |
| SM 2540C-2015 | Total Dissolved Solids | 188 | mg/L | 25.0 | 02/02/23 19:15 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 1.6 | mg/L | 1.0 | 02/02/23 15:07 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.16 | mg/L | 0.10 | 02/02/23 15:07 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 37.3 | mg/L | 1.0 | 02/02/23 15:07 | |
| 92649377018 | HAM-MW-27D | | | | | |
| | Performed by | Customer | | | 01/30/23 16:50 | |
| | pH | 7.80 | Std. Units | | 01/30/23 16:50 | |
| EPA 6010D | Calcium | 28.1 | mg/L | 1.0 | 03/21/23 18:42 | |
| EPA 6020B | Barium | 0.94 | mg/L | 0.0050 | 02/03/23 22:25 | |
| EPA 6020B | Boron | 0.12 | mg/L | 0.040 | 02/06/23 15:37 | |
| EPA 6020B | Lithium | 0.0072J | mg/L | 0.030 | 02/03/23 22:25 | |
| EPA 6020B | Molybdenum | 0.0014J | mg/L | 0.010 | 02/03/23 22:25 | |
| SM 2540C-2015 | Total Dissolved Solids | 255 | mg/L | 25.0 | 02/02/23 19:16 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 32.5 | mg/L | 1.0 | 02/03/23 15:41 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.30 | mg/L | 0.10 | 02/03/23 15:41 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92649377

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|-----------|------------|--------------|----------------|------------|
| 92649377018 | HAM-MW-27D | | | | | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 9.1 | mg/L | 1.0 | 02/03/23 15:41 | |
| 92649377019 | HAM-HGWC-8 | | | | | |
| | Performed by | Customer | | | 02/15/23 12:07 | |
| | pH | 6.60 | Std. Units | | 02/15/23 12:07 | |
| EPA 6010D | Calcium | 110 | mg/L | 1.0 | 02/14/23 20:38 | |
| EPA 6020B | Barium | 0.058 | mg/L | 0.0050 | 02/16/23 21:20 | |
| EPA 6020B | Beryllium | 0.000056J | mg/L | 0.00050 | 02/16/23 21:20 | |
| EPA 6020B | Boron | 1.9 | mg/L | 0.040 | 02/16/23 21:20 | |
| EPA 6020B | Cadmium | 0.00014J | mg/L | 0.00050 | 02/16/23 21:20 | |
| EPA 6020B | Lithium | 0.0015J | mg/L | 0.030 | 02/16/23 21:20 | |
| EPA 6020B | Molybdenum | 0.29 | mg/L | 0.010 | 02/16/23 21:20 | |
| SM 2540C-2015 | Total Dissolved Solids | 528 | mg/L | 25.0 | 02/07/23 18:40 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 52.4 | mg/L | 1.0 | 02/07/23 22:32 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.40 | mg/L | 0.10 | 02/07/23 22:32 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 179 | mg/L | 4.0 | 02/08/23 11:47 | |
| 92649377020 | HAM-AP-1-EB-01 | | | | | |
| EPA 6020B | Boron | 0.022J | mg/L | 0.040 | 02/16/23 21:26 | |
| 92649377021 | HAM-AP-1-FB-01 | | | | | |
| EPA 6020B | Boron | 0.011J | mg/L | 0.040 | 02/16/23 21:32 | |
| SM 2540C-2015 | Total Dissolved Solids | 28.0 | mg/L | 25.0 | 02/07/23 18:41 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

| Sample: HAM-HGWC-9 | | Lab ID: 92649377001 | | Collected: 01/26/23 15:24 | | Received: 01/30/23 11:58 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 01/30/23 16:42 | | |
| pH | 7.07 | Std. Units | | | 1 | | 01/30/23 16:42 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 173 | mg/L | 1.0 | 0.12 | 1 | 03/20/23 12:41 | 03/21/23 16:21 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | 0.00092J | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 12:06 | 02/03/23 20:20 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 12:06 | 02/03/23 20:20 | 7440-38-2 | |
| Barium | 0.069 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 12:06 | 02/03/23 20:20 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 12:06 | 02/06/23 13:32 | 7440-41-7 | |
| Boron | 1.9 | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 12:06 | 02/03/23 20:20 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 12:06 | 02/03/23 20:20 | 7440-43-9 | |
| Chromium | 0.0013J | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 12:06 | 02/06/23 13:32 | 7440-47-3 | |
| Cobalt | 0.00068J | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 12:06 | 02/03/23 20:20 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 12:06 | 02/03/23 20:20 | 7439-92-1 | |
| Lithium | 0.0032J | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 12:06 | 02/03/23 20:20 | 7439-93-2 | |
| Molybdenum | 0.021 | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 12:06 | 02/03/23 20:20 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 12:06 | 02/03/23 20:20 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 12:06 | 02/03/23 20:20 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/08/23 15:40 | 02/09/23 11:46 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 745 | mg/L | 25.0 | 25.0 | 1 | | 01/31/23 12:43 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 86.9 | mg/L | 1.0 | 0.60 | 1 | | 02/01/23 11:20 | 16887-00-6 | |
| Fluoride | 0.11 | mg/L | 0.10 | 0.050 | 1 | | 02/01/23 11:20 | 16984-48-8 | |
| Sulfate | 217 | mg/L | 4.0 | 2.0 | 4 | | 02/04/23 14:55 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

| Sample: HAM-HGWC-11 | | Lab ID: 92649377002 | | Collected: 01/26/23 14:27 | | Received: 01/30/23 11:58 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 01/30/23 16:43 | | |
| pH | 6.23 | Std. Units | | | 1 | | 01/30/23 16:43 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 113 | mg/L | 1.0 | 0.12 | 1 | 03/20/23 12:41 | 03/21/23 16:26 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 12:06 | 02/03/23 20:26 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 12:06 | 02/03/23 20:26 | 7440-38-2 | |
| Barium | 0.031 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 12:06 | 02/03/23 20:26 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 12:06 | 02/06/23 13:38 | 7440-41-7 | |
| Boron | 0.50 | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 12:06 | 02/03/23 20:26 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 12:06 | 02/03/23 20:26 | 7440-43-9 | |
| Chromium | 0.0012J | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 12:06 | 02/06/23 13:38 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 12:06 | 02/03/23 20:26 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 12:06 | 02/03/23 20:26 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 12:06 | 02/03/23 20:26 | 7439-93-2 | |
| Molybdenum | 0.022 | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 12:06 | 02/03/23 20:26 | 7439-98-7 | |
| Selenium | 0.010 | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 12:06 | 02/03/23 20:26 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 12:06 | 02/03/23 20:26 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/08/23 15:40 | 02/09/23 11:57 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 429 | mg/L | 25.0 | 25.0 | 1 | | 01/31/23 12:44 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 8.8 | mg/L | 1.0 | 0.60 | 1 | | 02/01/23 11:37 | 16887-00-6 | |
| Fluoride | 0.20 | mg/L | 0.10 | 0.050 | 1 | | 02/01/23 11:37 | 16984-48-8 | |
| Sulfate | 209 | mg/L | 4.0 | 2.0 | 4 | | 02/04/23 11:43 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

| Sample: HAM-HGWC-12 | | Lab ID: 92649377003 | | Collected: 01/26/23 12:25 | | Received: 01/30/23 11:58 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 01/30/23 16:43 | | |
| pH | 7.10 | Std. Units | | | 1 | | 01/30/23 16:43 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 154 | mg/L | 1.0 | 0.12 | 1 | 03/20/23 12:41 | 03/21/23 16:31 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 12:06 | 02/03/23 20:32 | 7440-36-0 | |
| Arsenic | 0.0025J | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 12:06 | 02/03/23 20:32 | 7440-38-2 | |
| Barium | 0.076 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 12:06 | 02/03/23 20:32 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 12:06 | 02/06/23 13:44 | 7440-41-7 | |
| Boron | 1.5 | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 12:06 | 02/03/23 20:32 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 12:06 | 02/03/23 20:32 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 12:06 | 02/06/23 13:44 | 7440-47-3 | |
| Cobalt | 0.0012J | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 12:06 | 02/03/23 20:32 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 12:06 | 02/03/23 20:32 | 7439-92-1 | |
| Lithium | 0.0058J | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 12:06 | 02/03/23 20:32 | 7439-93-2 | |
| Molybdenum | 0.048 | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 12:06 | 02/03/23 20:32 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 12:06 | 02/03/23 20:32 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 12:06 | 02/03/23 20:32 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/08/23 15:40 | 02/09/23 12:00 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 624 | mg/L | 25.0 | 25.0 | 1 | | 01/31/23 12:44 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 34.6 | mg/L | 1.0 | 0.60 | 1 | | 02/01/23 11:54 | 16887-00-6 | |
| Fluoride | 0.21 | mg/L | 0.10 | 0.050 | 1 | | 02/01/23 11:54 | 16984-48-8 | |
| Sulfate | 228 | mg/L | 4.0 | 2.0 | 4 | | 02/04/23 11:57 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

| Sample: HAM-HGWC-13 | | Lab ID: 92649377004 | | Collected: 01/26/23 13:30 | | Received: 01/30/23 11:58 | | Matrix: Water | |
|--|------------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 01/30/23 16:43 | | |
| pH | 6.90 | Std. Units | | | 1 | | 01/30/23 16:43 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 234 | mg/L | 1.0 | 0.12 | 1 | 03/20/23 12:41 | 03/21/23 16:36 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 12:06 | 02/03/23 20:49 | 7440-36-0 | |
| Arsenic | 0.53 | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 12:06 | 02/03/23 20:49 | 7440-38-2 | |
| Barium | 0.079 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 12:06 | 02/03/23 20:49 | 7440-39-3 | |
| Beryllium | 0.000099J | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 12:06 | 02/06/23 14:02 | 7440-41-7 | |
| Boron | 0.83 | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 12:06 | 02/06/23 14:02 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 12:06 | 02/03/23 20:49 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 12:06 | 02/06/23 14:02 | 7440-47-3 | |
| Cobalt | 0.012 | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 12:06 | 02/03/23 20:49 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 12:06 | 02/03/23 20:49 | 7439-92-1 | |
| Lithium | 0.040 | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 12:06 | 02/03/23 20:49 | 7439-93-2 | |
| Molybdenum | 0.023 | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 12:06 | 02/03/23 20:49 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 12:06 | 02/03/23 20:49 | 7782-49-2 | |
| Thallium | 0.00031J | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 12:06 | 02/03/23 20:49 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/08/23 15:40 | 02/09/23 12:03 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 962 | mg/L | 25.0 | 25.0 | 1 | | 01/31/23 12:45 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 12.5 | mg/L | 1.0 | 0.60 | 1 | | 02/01/23 12:12 | 16887-00-6 | |
| Fluoride | 0.40 | mg/L | 0.10 | 0.050 | 1 | | 02/01/23 12:12 | 16984-48-8 | |
| Sulfate | 495 | mg/L | 10.0 | 5.0 | 10 | | 02/04/23 12:12 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

| Sample: HAM-MW-5 | | Lab ID: 92649377005 | | Collected: 01/26/23 11:14 | | Received: 01/30/23 11:58 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 01/30/23 16:44 | | |
| pH | 6.07 | Std. Units | | | 1 | | 01/30/23 16:44 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 76.1 | mg/L | 1.0 | 0.12 | 1 | 03/20/23 12:41 | 03/21/23 17:15 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 12:06 | 02/03/23 20:55 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 12:06 | 02/03/23 20:55 | 7440-38-2 | |
| Barium | 0.050 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 12:06 | 02/03/23 20:55 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 12:06 | 02/06/23 14:08 | 7440-41-7 | |
| Boron | 0.044 | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 12:06 | 02/06/23 14:08 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 12:06 | 02/03/23 20:55 | 7440-43-9 | |
| Chromium | 0.0032J | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 12:06 | 02/06/23 14:08 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 12:06 | 02/03/23 20:55 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 12:06 | 02/03/23 20:55 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 12:06 | 02/03/23 20:55 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 12:06 | 02/03/23 20:55 | 7439-98-7 | |
| Selenium | 0.0045J | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 12:06 | 02/03/23 20:55 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 12:06 | 02/03/23 20:55 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/08/23 15:40 | 02/09/23 12:05 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 363 | mg/L | 25.0 | 25.0 | 1 | | 01/31/23 12:45 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 0.86J | mg/L | 1.0 | 0.60 | 1 | | 02/01/23 12:29 | 16887-00-6 | |
| Fluoride | 0.087J | mg/L | 0.10 | 0.050 | 1 | | 02/01/23 12:29 | 16984-48-8 | |
| Sulfate | 137 | mg/L | 3.0 | 1.5 | 3 | | 02/04/23 12:27 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

| Sample: HAM-MW-6 | | Lab ID: 92649377006 | | Collected: 01/26/23 12:40 | | Received: 01/30/23 11:58 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 01/30/23 16:44 | | |
| pH | 6.90 | Std. Units | | | 1 | | 01/30/23 16:44 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 180 | mg/L | 1.0 | 0.12 | 1 | 03/20/23 12:41 | 03/21/23 17:20 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 12:06 | 02/03/23 21:01 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 12:06 | 02/03/23 21:01 | 7440-38-2 | |
| Barium | 0.079 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 12:06 | 02/03/23 21:01 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 12:06 | 02/06/23 14:14 | 7440-41-7 | |
| Boron | 0.71 | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 12:06 | 02/06/23 14:14 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 12:06 | 02/03/23 21:01 | 7440-43-9 | |
| Chromium | 0.0014J | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 12:06 | 02/06/23 14:14 | 7440-47-3 | |
| Cobalt | 0.00044J | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 12:06 | 02/03/23 21:01 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 12:06 | 02/03/23 21:01 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 12:06 | 02/03/23 21:01 | 7439-93-2 | |
| Molybdenum | 0.0029J | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 12:06 | 02/03/23 21:01 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 12:06 | 02/03/23 21:01 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 12:06 | 02/03/23 21:01 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/08/23 15:40 | 02/09/23 12:13 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 646 | mg/L | 25.0 | 25.0 | 1 | | 01/31/23 12:46 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 30.5 | mg/L | 1.0 | 0.60 | 1 | | 02/01/23 12:47 | 16887-00-6 | |
| Fluoride | 0.088J | mg/L | 0.10 | 0.050 | 1 | | 02/01/23 12:47 | 16984-48-8 | |
| Sulfate | 203 | mg/L | 4.0 | 2.0 | 4 | | 02/04/23 12:41 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

| Sample: HAM-MW-7 | | Lab ID: 92649377007 | | Collected: 01/26/23 14:04 | | Received: 01/30/23 11:58 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 01/30/23 16:46 | | |
| pH | 6.23 | Std. Units | | | 1 | | 01/30/23 16:46 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 21.6 | mg/L | 1.0 | 0.12 | 1 | 03/20/23 12:41 | 03/21/23 17:25 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 12:06 | 02/03/23 21:07 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 12:06 | 02/03/23 21:07 | 7440-38-2 | |
| Barium | 0.044 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 12:06 | 02/03/23 21:07 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 12:06 | 02/06/23 14:20 | 7440-41-7 | |
| Boron | 0.033J | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 12:06 | 02/06/23 14:20 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 12:06 | 02/03/23 21:07 | 7440-43-9 | |
| Chromium | 0.0017J | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 12:06 | 02/06/23 14:20 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 12:06 | 02/03/23 21:07 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 12:06 | 02/03/23 21:07 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 12:06 | 02/03/23 21:07 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 12:06 | 02/03/23 21:07 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 12:06 | 02/03/23 21:07 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 12:06 | 02/03/23 21:07 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/08/23 15:40 | 02/09/23 12:16 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 89.0 | mg/L | 25.0 | 25.0 | 1 | | 01/31/23 12:47 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 1.2 | mg/L | 1.0 | 0.60 | 1 | | 02/01/23 13:56 | 16887-00-6 | |
| Fluoride | 0.060J | mg/L | 0.10 | 0.050 | 1 | | 02/01/23 13:56 | 16984-48-8 | |
| Sulfate | 26.0 | mg/L | 1.0 | 0.50 | 1 | | 02/01/23 13:56 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

| Sample: HAM-MW-19 | | Lab ID: 92649377008 | | Collected: 01/26/23 16:05 | | Received: 01/30/23 11:58 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 01/30/23 16:46 | | |
| pH | 6.13 | Std. Units | | | 1 | | 01/30/23 16:46 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 118 | mg/L | 1.0 | 0.12 | 1 | 03/20/23 12:41 | 03/21/23 17:30 | 7440-70-2 | M1 |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 12:06 | 02/03/23 21:13 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 12:06 | 02/03/23 21:13 | 7440-38-2 | |
| Barium | 0.039 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 12:06 | 02/03/23 21:13 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 12:06 | 02/06/23 14:26 | 7440-41-7 | |
| Boron | 0.36 | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 12:06 | 02/06/23 14:26 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 12:06 | 02/03/23 21:13 | 7440-43-9 | |
| Chromium | 0.0011J | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 12:06 | 02/06/23 14:26 | 7440-47-3 | |
| Cobalt | 0.022 | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 12:06 | 02/03/23 21:13 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 12:06 | 02/03/23 21:13 | 7439-92-1 | |
| Lithium | 0.0038J | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 12:06 | 02/03/23 21:13 | 7439-93-2 | |
| Molybdenum | 0.012 | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 12:06 | 02/03/23 21:13 | 7439-98-7 | |
| Selenium | 0.0056 | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 12:06 | 02/03/23 21:13 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 12:06 | 02/03/23 21:13 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/08/23 15:40 | 02/09/23 12:18 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 490 | mg/L | 25.0 | 25.0 | 1 | | 01/31/23 12:48 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 7.7 | mg/L | 1.0 | 0.60 | 1 | | 02/01/23 14:14 | 16887-00-6 | |
| Fluoride | 0.098J | mg/L | 0.10 | 0.050 | 1 | | 02/01/23 14:14 | 16984-48-8 | |
| Sulfate | 214 | mg/L | 5.0 | 2.5 | 5 | | 02/04/23 13:41 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

| Sample: HAM-MW-20 | | Lab ID: 92649377009 | | Collected: 01/26/23 09:49 | | Received: 01/30/23 11:58 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 01/30/23 16:46 | | |
| pH | 6.95 | Std. Units | | | 1 | | 01/30/23 16:46 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 122 | mg/L | 1.0 | 0.12 | 1 | 03/20/23 12:41 | 03/21/23 17:49 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 12:06 | 02/03/23 21:19 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 12:06 | 02/03/23 21:19 | 7440-38-2 | |
| Barium | 0.097 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 12:06 | 02/03/23 21:19 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 12:06 | 02/06/23 14:32 | 7440-41-7 | |
| Boron | 0.099 | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 12:06 | 02/06/23 14:32 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 12:06 | 02/03/23 21:19 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 12:06 | 02/06/23 14:32 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 12:06 | 02/03/23 21:19 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 12:06 | 02/03/23 21:19 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 12:06 | 02/03/23 21:19 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 12:06 | 02/03/23 21:19 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 12:06 | 02/03/23 21:19 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 12:06 | 02/03/23 21:19 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/08/23 15:40 | 02/09/23 12:21 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 482 | mg/L | 25.0 | 25.0 | 1 | | 01/31/23 12:48 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 30.0 | mg/L | 1.0 | 0.60 | 1 | | 02/01/23 15:06 | 16887-00-6 | |
| Fluoride | 0.081J | mg/L | 0.10 | 0.050 | 1 | | 02/01/23 15:06 | 16984-48-8 | |
| Sulfate | 109 | mg/L | 2.0 | 1.0 | 2 | | 02/04/23 14:25 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

| Sample: HAM-MW-24D | | Lab ID: 92649377010 | | Collected: 01/26/23 11:31 | | Received: 01/30/23 11:58 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 01/30/23 16:46 | | |
| pH | 7.60 | Std. Units | | | 1 | | 01/30/23 16:46 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 107 | mg/L | 1.0 | 0.12 | 1 | 03/20/23 12:41 | 03/21/23 17:54 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 12:06 | 02/03/23 21:25 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 12:06 | 02/03/23 21:25 | 7440-38-2 | |
| Barium | 0.054 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 12:06 | 02/03/23 21:25 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 12:06 | 02/06/23 14:37 | 7440-41-7 | |
| Boron | 0.47 | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 12:06 | 02/06/23 14:37 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 12:06 | 02/03/23 21:25 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 12:06 | 02/06/23 14:37 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 12:06 | 02/03/23 21:25 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 12:06 | 02/03/23 21:25 | 7439-92-1 | |
| Lithium | 0.0025J | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 12:06 | 02/03/23 21:25 | 7439-93-2 | |
| Molybdenum | 0.0012J | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 12:06 | 02/03/23 21:25 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 12:06 | 02/03/23 21:25 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 12:06 | 02/03/23 21:25 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/08/23 15:40 | 02/09/23 12:24 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 412 | mg/L | 25.0 | 25.0 | 1 | | 01/31/23 12:49 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 38.0 | mg/L | 1.0 | 0.60 | 1 | | 02/01/23 15:23 | 16887-00-6 | |
| Fluoride | 0.083J | mg/L | 0.10 | 0.050 | 1 | | 02/01/23 15:23 | 16984-48-8 | |
| Sulfate | 152 | mg/L | 3.0 | 1.5 | 3 | | 02/04/23 14:40 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

| Sample: HAM-MW-25D | | Lab ID: 92649377011 | | Collected: 01/26/23 10:14 | | Received: 01/30/23 11:58 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 01/30/23 16:48 | | |
| pH | 7.74 | Std. Units | | | 1 | | 01/30/23 16:48 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 21.8 | mg/L | 1.0 | 0.12 | 1 | 03/20/23 12:41 | 03/21/23 17:58 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 12:06 | 02/03/23 21:31 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 12:06 | 02/03/23 21:31 | 7440-38-2 | |
| Barium | 0.65 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 12:06 | 02/03/23 21:31 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 12:06 | 02/06/23 14:43 | 7440-41-7 | |
| Boron | 0.30 | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 12:06 | 02/06/23 14:43 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 12:06 | 02/03/23 21:31 | 7440-43-9 | |
| Chromium | 0.0012J | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 12:06 | 02/06/23 14:43 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 12:06 | 02/03/23 21:31 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 12:06 | 02/03/23 21:31 | 7439-92-1 | |
| Lithium | 0.036 | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 12:06 | 02/03/23 21:31 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 12:06 | 02/03/23 21:31 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 12:06 | 02/03/23 21:31 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 12:06 | 02/03/23 21:31 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/08/23 15:40 | 02/09/23 12:26 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 346 | mg/L | 25.0 | 25.0 | 1 | | 01/31/23 12:49 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 17.2 | mg/L | 1.0 | 0.60 | 1 | | 02/02/23 13:14 | 16887-00-6 | |
| Fluoride | 1.6 | mg/L | 0.10 | 0.050 | 1 | | 02/02/23 13:14 | 16984-48-8 | |
| Sulfate | 0.59J | mg/L | 1.0 | 0.50 | 1 | | 02/02/23 13:14 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

| Sample: HAM-MW-26D | | Lab ID: 92649377012 | | Collected: 01/26/23 16:32 | | Received: 01/30/23 11:58 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 01/30/23 16:48 | | |
| pH | 7.14 | Std. Units | | | 1 | | 01/30/23 16:48 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 179 | mg/L | 1.0 | 0.12 | 1 | 03/20/23 12:41 | 03/21/23 18:13 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 12:06 | 02/03/23 21:37 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 12:06 | 02/03/23 21:37 | 7440-38-2 | |
| Barium | 0.065 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 12:06 | 02/03/23 21:37 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 12:06 | 02/06/23 14:49 | 7440-41-7 | |
| Boron | 1.8 | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 12:06 | 02/06/23 14:49 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 12:06 | 02/03/23 21:37 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 12:06 | 02/06/23 14:49 | 7440-47-3 | |
| Cobalt | 0.00051J | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 12:06 | 02/03/23 21:37 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 12:06 | 02/03/23 21:37 | 7439-92-1 | |
| Lithium | 0.0031J | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 12:06 | 02/03/23 21:37 | 7439-93-2 | |
| Molybdenum | 0.028 | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 12:06 | 02/03/23 21:37 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 12:06 | 02/03/23 21:37 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 12:06 | 02/03/23 21:37 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/08/23 15:40 | 02/09/23 12:29 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 741 | mg/L | 25.0 | 25.0 | 1 | | 01/31/23 12:49 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 83.6 | mg/L | 1.0 | 0.60 | 1 | | 02/02/23 13:33 | 16887-00-6 | |
| Fluoride | 0.11 | mg/L | 0.10 | 0.050 | 1 | | 02/02/23 13:33 | 16984-48-8 | |
| Sulfate | 240 | mg/L | 5.0 | 2.5 | 5 | | 02/02/23 16:23 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

| Sample: HAM-MW-28D | | Lab ID: 92649377013 | | Collected: 01/26/23 17:33 | | Received: 01/30/23 11:58 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 02/15/23 12:06 | | |
| pH | 7.67 | Std. Units | | | 1 | | 02/15/23 12:06 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 64.4 | mg/L | 1.0 | 0.12 | 1 | 03/20/23 12:41 | 03/21/23 18:18 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 12:06 | 02/03/23 21:43 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 12:06 | 02/03/23 21:43 | 7440-38-2 | |
| Barium | 0.80 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 12:06 | 02/03/23 21:43 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 12:06 | 02/06/23 14:55 | 7440-41-7 | |
| Boron | 0.29 | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 12:06 | 02/06/23 14:55 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 12:06 | 02/03/23 21:43 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 12:06 | 02/06/23 14:55 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 12:06 | 02/03/23 21:43 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 12:06 | 02/03/23 21:43 | 7439-92-1 | |
| Lithium | 0.011J | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 12:06 | 02/03/23 21:43 | 7439-93-2 | |
| Molybdenum | 0.0025J | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 12:06 | 02/03/23 21:43 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 12:06 | 02/03/23 21:43 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 12:06 | 02/03/23 21:43 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/14/23 08:15 | 02/14/23 11:41 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 349 | mg/L | 25.0 | 25.0 | 1 | | 01/31/23 12:50 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 27.7 | mg/L | 1.0 | 0.60 | 1 | | 02/02/23 13:51 | 16887-00-6 | |
| Fluoride | 0.22 | mg/L | 0.10 | 0.050 | 1 | | 02/02/23 13:51 | 16984-48-8 | |
| Sulfate | 40.8 | mg/L | 1.0 | 0.50 | 1 | | 02/02/23 13:51 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

| Sample: HAM-MW-29 | | Lab ID: 92649377014 | | Collected: 01/26/23 15:19 | | Received: 01/30/23 11:58 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 01/30/23 16:48 | | |
| pH | 7.22 | Std. Units | | | 1 | | 01/30/23 16:48 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 146 | mg/L | 1.0 | 0.12 | 1 | 03/20/23 12:41 | 03/21/23 18:23 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 12:06 | 02/03/23 22:01 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 12:06 | 02/03/23 22:01 | 7440-38-2 | |
| Barium | 0.076 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 12:06 | 02/03/23 22:01 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 12:06 | 02/06/23 15:13 | 7440-41-7 | |
| Boron | 1.0 | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 12:06 | 02/06/23 15:13 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 12:06 | 02/03/23 22:01 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 12:06 | 02/06/23 15:13 | 7440-47-3 | |
| Cobalt | 0.00056J | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 12:06 | 02/03/23 22:01 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 12:06 | 02/03/23 22:01 | 7439-92-1 | |
| Lithium | 0.0019J | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 12:06 | 02/03/23 22:01 | 7439-93-2 | |
| Molybdenum | 0.0029J | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 12:06 | 02/03/23 22:01 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 12:06 | 02/03/23 22:01 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 12:06 | 02/03/23 22:01 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/14/23 08:15 | 02/14/23 11:52 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 632 | mg/L | 25.0 | 25.0 | 1 | | 01/31/23 12:51 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 62.4 | mg/L | 1.0 | 0.60 | 1 | | 02/02/23 14:10 | 16887-00-6 | |
| Fluoride | 0.068J | mg/L | 0.10 | 0.050 | 1 | | 02/02/23 14:10 | 16984-48-8 | |
| Sulfate | 161 | mg/L | 3.0 | 1.5 | 3 | | 02/02/23 17:00 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92649377

| Sample: HAM-AP-1-FD-01 | | Lab ID: 92649377015 | | Collected: 01/26/23 14:48 | | Received: 01/30/23 11:58 | | Matrix: Water | | |
|-------------------------------------|---------|--|---------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Calcium | 113 | mg/L | 1.0 | 0.12 | 1 | 03/20/23 12:41 | 03/21/23 18:28 | 7440-70-2 | | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 12:06 | 02/03/23 22:07 | 7440-36-0 | | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 12:06 | 02/03/23 22:07 | 7440-38-2 | | |
| Barium | 0.031 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 12:06 | 02/03/23 22:07 | 7440-39-3 | | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 12:06 | 02/06/23 15:19 | 7440-41-7 | | |
| Boron | 0.51 | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 12:06 | 02/06/23 15:19 | 7440-42-8 | | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 12:06 | 02/03/23 22:07 | 7440-43-9 | | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 12:06 | 02/06/23 15:19 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 12:06 | 02/03/23 22:07 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 12:06 | 02/03/23 22:07 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 12:06 | 02/03/23 22:07 | 7439-93-2 | | |
| Molybdenum | 0.022 | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 12:06 | 02/03/23 22:07 | 7439-98-7 | | |
| Selenium | 0.0095 | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 12:06 | 02/03/23 22:07 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 12:06 | 02/03/23 22:07 | 7440-28-0 | | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/14/23 08:15 | 02/14/23 11:54 | 7439-97-6 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | 509 | mg/L | 25.0 | 25.0 | 1 | | 01/31/23 12:51 | | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | 9.2 | mg/L | 1.0 | 0.60 | 1 | | 02/02/23 14:29 | 16887-00-6 | | |
| Fluoride | 0.20 | mg/L | 0.10 | 0.050 | 1 | | 02/02/23 14:29 | 16984-48-8 | | |
| Sulfate | 221 | mg/L | 4.0 | 2.0 | 4 | | 02/02/23 17:19 | 14808-79-8 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

| Sample: HAM-HGWC-7 | | Lab ID: 92649377016 | | Collected: 01/27/23 13:15 | | Received: 01/30/23 11:58 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 01/30/23 16:50 | | |
| pH | 7.25 | Std. Units | | | 1 | | 01/30/23 16:50 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 124 | mg/L | 1.0 | 0.12 | 1 | 03/20/23 12:41 | 03/21/23 18:32 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 12:06 | 02/03/23 22:13 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 12:06 | 02/03/23 22:13 | 7440-38-2 | |
| Barium | 0.065 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 12:06 | 02/03/23 22:13 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 12:06 | 02/06/23 15:25 | 7440-41-7 | |
| Boron | 0.93 | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 12:06 | 02/06/23 15:25 | 7440-42-8 | |
| Cadmium | 0.00019J | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 12:06 | 02/03/23 22:13 | 7440-43-9 | |
| Chromium | 0.0014J | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 12:06 | 02/06/23 15:25 | 7440-47-3 | |
| Cobalt | 0.00067J | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 12:06 | 02/03/23 22:13 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 12:06 | 02/03/23 22:13 | 7439-92-1 | |
| Lithium | 0.0018J | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 12:06 | 02/03/23 22:13 | 7439-93-2 | |
| Molybdenum | 0.039 | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 12:06 | 02/03/23 22:13 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 12:06 | 02/03/23 22:13 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 12:06 | 02/03/23 22:13 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/14/23 08:15 | 02/14/23 11:57 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 473 | mg/L | 25.0 | 25.0 | 1 | | 01/31/23 12:52 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 40.0 | mg/L | 1.0 | 0.60 | 1 | | 02/02/23 14:48 | 16887-00-6 | |
| Fluoride | 0.10 | mg/L | 0.10 | 0.050 | 1 | | 02/02/23 14:48 | 16984-48-8 | |
| Sulfate | 119 | mg/L | 2.0 | 1.0 | 2 | | 02/02/23 17:38 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

| Sample: HAM-HGWC-10 | | Lab ID: 92649377017 | | Collected: 01/27/23 15:01 | | Received: 01/30/23 11:58 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 01/30/23 16:50 | | |
| pH | 6.89 | Std. Units | | | 1 | | 01/30/23 16:50 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 60.4 | mg/L | 1.0 | 0.12 | 1 | 03/20/23 12:41 | 03/21/23 18:37 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 12:06 | 02/03/23 22:19 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 12:06 | 02/03/23 22:19 | 7440-38-2 | |
| Barium | 0.041 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 12:06 | 02/03/23 22:19 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 12:06 | 02/06/23 15:31 | 7440-41-7 | |
| Boron | 0.065 | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 12:06 | 02/06/23 15:31 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 12:06 | 02/03/23 22:19 | 7440-43-9 | |
| Chromium | 0.0012J | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 12:06 | 02/06/23 15:31 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 12:06 | 02/03/23 22:19 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 12:06 | 02/03/23 22:19 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 12:06 | 02/03/23 22:19 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 12:06 | 02/03/23 22:19 | 7439-98-7 | |
| Selenium | 0.0035J | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 12:06 | 02/03/23 22:19 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 12:06 | 02/03/23 22:19 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/14/23 08:15 | 02/14/23 11:59 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 188 | mg/L | 25.0 | 25.0 | 1 | | 02/02/23 19:15 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 1.6 | mg/L | 1.0 | 0.60 | 1 | | 02/02/23 15:07 | 16887-00-6 | |
| Fluoride | 0.16 | mg/L | 0.10 | 0.050 | 1 | | 02/02/23 15:07 | 16984-48-8 | |
| Sulfate | 37.3 | mg/L | 1.0 | 0.50 | 1 | | 02/02/23 15:07 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

| Sample: HAM-MW-27D | | Lab ID: 92649377018 | | Collected: 01/27/23 17:35 | | Received: 01/30/23 11:58 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 01/30/23 16:50 | | |
| pH | 7.80 | Std. Units | | | 1 | | 01/30/23 16:50 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 28.1 | mg/L | 1.0 | 0.12 | 1 | 03/20/23 12:41 | 03/21/23 18:42 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 12:06 | 02/03/23 22:25 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 12:06 | 02/03/23 22:25 | 7440-38-2 | |
| Barium | 0.94 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 12:06 | 02/03/23 22:25 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 12:06 | 02/06/23 15:37 | 7440-41-7 | |
| Boron | 0.12 | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 12:06 | 02/06/23 15:37 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 12:06 | 02/03/23 22:25 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 12:06 | 02/06/23 15:37 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 12:06 | 02/03/23 22:25 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 12:06 | 02/03/23 22:25 | 7439-92-1 | |
| Lithium | 0.0072J | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 12:06 | 02/03/23 22:25 | 7439-93-2 | |
| Molybdenum | 0.0014J | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 12:06 | 02/03/23 22:25 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 12:06 | 02/03/23 22:25 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 12:06 | 02/03/23 22:25 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/14/23 08:15 | 02/14/23 12:07 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 255 | mg/L | 25.0 | 25.0 | 1 | | 02/02/23 19:16 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 32.5 | mg/L | 1.0 | 0.60 | 1 | | 02/03/23 15:41 | 16887-00-6 | |
| Fluoride | 0.30 | mg/L | 0.10 | 0.050 | 1 | | 02/03/23 15:41 | 16984-48-8 | |
| Sulfate | 9.1 | mg/L | 1.0 | 0.50 | 1 | | 02/03/23 15:41 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

| Sample: HAM-HGWC-8 | | Lab ID: 92649377019 | | Collected: 02/01/23 10:02 | | Received: 02/03/23 12:50 | | Matrix: Water | |
|--|------------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 02/15/23 12:07 | | |
| pH | 6.60 | Std. Units | | | 1 | | 02/15/23 12:07 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 110 | mg/L | 1.0 | 0.12 | 1 | 02/13/23 17:06 | 02/14/23 20:38 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/14/23 17:00 | 02/16/23 21:20 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/14/23 17:00 | 02/16/23 21:20 | 7440-38-2 | |
| Barium | 0.058 | mg/L | 0.0050 | 0.00067 | 1 | 02/14/23 17:00 | 02/16/23 21:20 | 7440-39-3 | |
| Beryllium | 0.000056J | mg/L | 0.00050 | 0.000054 | 1 | 02/14/23 17:00 | 02/16/23 21:20 | 7440-41-7 | |
| Boron | 1.9 | mg/L | 0.040 | 0.0086 | 1 | 02/14/23 17:00 | 02/16/23 21:20 | 7440-42-8 | |
| Cadmium | 0.00014J | mg/L | 0.00050 | 0.00011 | 1 | 02/14/23 17:00 | 02/16/23 21:20 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.025 | 0.0055 | 5 | 02/14/23 17:00 | 02/17/23 18:36 | 7440-47-3 | D3 |
| Cobalt | ND | mg/L | 0.025 | 0.0020 | 5 | 02/14/23 17:00 | 02/17/23 18:36 | 7440-48-4 | D3 |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/14/23 17:00 | 02/16/23 21:20 | 7439-92-1 | |
| Lithium | 0.0015J | mg/L | 0.030 | 0.00073 | 1 | 02/14/23 17:00 | 02/16/23 21:20 | 7439-93-2 | |
| Molybdenum | 0.29 | mg/L | 0.010 | 0.00074 | 1 | 02/14/23 17:00 | 02/16/23 21:20 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 02/14/23 17:00 | 02/16/23 21:20 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/14/23 17:00 | 02/16/23 21:20 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/14/23 08:15 | 02/14/23 12:10 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 528 | mg/L | 25.0 | 25.0 | 1 | | 02/07/23 18:40 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 52.4 | mg/L | 1.0 | 0.60 | 1 | | 02/07/23 22:32 | 16887-00-6 | |
| Fluoride | 0.40 | mg/L | 0.10 | 0.050 | 1 | | 02/07/23 22:32 | 16984-48-8 | |
| Sulfate | 179 | mg/L | 4.0 | 2.0 | 4 | | 02/08/23 11:47 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

| Sample: HAM-AP-1-EB-01 | | Lab ID: 92649377020 | | Collected: 02/01/23 14:50 | | Received: 02/03/23 12:50 | | Matrix: Water | |
|--|---------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 02/13/23 17:06 | 02/14/23 20:48 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/14/23 17:00 | 02/16/23 21:26 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/14/23 17:00 | 02/16/23 21:26 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00067 | 1 | 02/14/23 17:00 | 02/16/23 21:26 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/14/23 17:00 | 02/16/23 21:26 | 7440-41-7 | |
| Boron | 0.022J | mg/L | 0.040 | 0.0086 | 1 | 02/14/23 17:00 | 02/16/23 21:26 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/14/23 17:00 | 02/16/23 21:26 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 02/14/23 17:00 | 02/17/23 17:01 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 02/14/23 17:00 | 02/17/23 17:01 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/14/23 17:00 | 02/16/23 21:26 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 02/14/23 17:00 | 02/16/23 21:26 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 02/14/23 17:00 | 02/16/23 21:26 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 02/14/23 17:00 | 02/16/23 21:26 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/14/23 17:00 | 02/16/23 21:26 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/14/23 08:15 | 02/14/23 12:13 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 02/07/23 18:41 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 02/07/23 22:48 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 02/07/23 22:48 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 02/07/23 22:48 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

| Sample: HAM-AP-1-FB-01 | | Lab ID: 92649377021 | | Collected: 02/01/23 14:40 | | Received: 02/03/23 12:50 | | Matrix: Water | |
|--|---------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 02/13/23 17:06 | 02/14/23 20:53 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/14/23 17:00 | 02/16/23 21:32 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/14/23 17:00 | 02/16/23 21:32 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00067 | 1 | 02/14/23 17:00 | 02/16/23 21:32 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/14/23 17:00 | 02/16/23 21:32 | 7440-41-7 | |
| Boron | 0.011J | mg/L | 0.040 | 0.0086 | 1 | 02/14/23 17:00 | 02/16/23 21:32 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/14/23 17:00 | 02/16/23 21:32 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 02/14/23 17:00 | 02/17/23 17:07 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 02/14/23 17:00 | 02/17/23 17:07 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/14/23 17:00 | 02/16/23 21:32 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 02/14/23 17:00 | 02/16/23 21:32 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 02/14/23 17:00 | 02/16/23 21:32 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 02/14/23 17:00 | 02/16/23 21:32 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/14/23 17:00 | 02/16/23 21:32 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/14/23 08:15 | 02/14/23 12:15 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 28.0 | mg/L | 25.0 | 25.0 | 1 | | 02/07/23 18:41 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 02/07/23 23:04 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 02/07/23 23:04 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 02/07/23 23:04 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92649377

QC Batch: 755531 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92649377019, 92649377020, 92649377021

METHOD BLANK: 3925569 Matrix: Water
Associated Lab Samples: 92649377019, 92649377020, 92649377021

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 02/14/23 18:47 | |

LABORATORY CONTROL SAMPLE: 3925570

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 1 | 0.97J | 97 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925571 3925572

| Parameter | Units | 3925571 | | 3925572 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|-------|
| | | 92648451003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | |
| Calcium | mg/L | 286 | 1 | 1 | 295 | 304 | 925 | 1800 | 75-125 | 3 | 20 M1 |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92649377

| | | | |
|-------------------------|--|-----------------------|--|
| QC Batch: | 762460 | Analysis Method: | EPA 6010D |
| QC Batch Method: | EPA 3010A | Analysis Description: | 6010D ATL |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |
| Associated Lab Samples: | 92649377001, 92649377002, 92649377003, 92649377004, 92649377005, 92649377006, 92649377007, 92649377008, 92649377009, 92649377010, 92649377011, 92649377012, 92649377013, 92649377014, 92649377015, 92649377016, 92649377017, 92649377018 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | 3959969 | Matrix: | Water |
| Associated Lab Samples: | 92649377001, 92649377002, 92649377003, 92649377004, 92649377005, 92649377006, 92649377007, 92649377008, 92649377009, 92649377010, 92649377011, 92649377012, 92649377013, 92649377014, 92649377015, 92649377016, 92649377017, 92649377018 | | |

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 03/21/23 16:12 | |

| LABORATORY CONTROL SAMPLE: | 3959970 | | | | | |
|----------------------------|---------|-------------|------------|-----------|--------------|------------|
| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
| Calcium | mg/L | 1 | 1.0 | 102 | 80-120 | |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: | 3959971 | | | 3959972 | | | | | | | | |
|--|---------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Parameter | Units | 92649377008 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
| Calcium | mg/L | 118 | 1 | 1 | 122 | 124 | 345 | 602 | 75-125 | 2 | 20 | M1 |

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92649377

QC Batch: 753122 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92649377001, 92649377002, 92649377003, 92649377004, 92649377005, 92649377006, 92649377007, 92649377008, 92649377009, 92649377010, 92649377011, 92649377012, 92649377013, 92649377014, 92649377015, 92649377016, 92649377017, 92649377018

METHOD BLANK: 3912997 Matrix: Water
Associated Lab Samples: 92649377001, 92649377002, 92649377003, 92649377004, 92649377005, 92649377006, 92649377007, 92649377008, 92649377009, 92649377010, 92649377011, 92649377012, 92649377013, 92649377014, 92649377015, 92649377016, 92649377017, 92649377018

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00078 | 02/03/23 19:38 | |
| Arsenic | mg/L | ND | 0.0050 | 0.0022 | 02/03/23 19:38 | |
| Barium | mg/L | ND | 0.0050 | 0.00067 | 02/03/23 19:38 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000054 | 02/06/23 12:56 | |
| Boron | mg/L | ND | 0.040 | 0.0086 | 02/03/23 19:38 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00011 | 02/03/23 19:38 | |
| Chromium | mg/L | ND | 0.0050 | 0.0011 | 02/06/23 12:56 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00039 | 02/03/23 19:38 | |
| Lead | mg/L | ND | 0.0010 | 0.00089 | 02/03/23 19:38 | |
| Lithium | mg/L | ND | 0.030 | 0.00073 | 02/03/23 19:38 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00074 | 02/03/23 19:38 | |
| Selenium | mg/L | ND | 0.0050 | 0.0014 | 02/03/23 19:38 | |
| Thallium | mg/L | ND | 0.0010 | 0.00018 | 02/03/23 19:38 | |

LABORATORY CONTROL SAMPLE: 3912998

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.12 | 117 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Boron | mg/L | 1 | 0.93 | 93 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.11 | 106 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Lead | mg/L | 0.1 | 0.11 | 108 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.096 | 96 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.11 | 107 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.11 | 107 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.11 | 108 | 80-120 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92649377

| Parameter | Units | 3912999 | | 3913000 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 92649235012 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.12 | 0.12 | 119 | 118 | 75-125 | 2 | 20 | | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 105 | 102 | 75-125 | 3 | 20 | | |
| Barium | mg/L | 0.034 | 0.1 | 0.1 | 0.13 | 0.13 | 100 | 99 | 75-125 | 1 | 20 | | |
| Beryllium | mg/L | 0.00010J | 0.1 | 0.1 | 0.10 | 0.099 | 100 | 99 | 75-125 | 1 | 20 | | |
| Boron | mg/L | 0.45 | 1 | 1 | 1.3 | 1.4 | 89 | 97 | 75-125 | 5 | 20 | | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.098 | 100 | 98 | 75-125 | 2 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.10 | 106 | 103 | 75-125 | 3 | 20 | | |
| Cobalt | mg/L | ND | 0.1 | 0.1 | 0.094 | 0.095 | 94 | 95 | 75-125 | 0 | 20 | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.10 | 105 | 104 | 75-125 | 1 | 20 | | |
| Lithium | mg/L | ND | 0.1 | 0.1 | 0.096 | 0.10 | 96 | 100 | 75-125 | 4 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 105 | 104 | 75-125 | 1 | 20 | | |
| Selenium | mg/L | 0.0022J | 0.1 | 0.1 | 0.11 | 0.11 | 106 | 103 | 75-125 | 3 | 20 | | |
| Thallium | mg/L | 0.00019J | 0.1 | 0.1 | 0.11 | 0.10 | 105 | 105 | 75-125 | 1 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92649377

QC Batch: 755827 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92649377019, 92649377020, 92649377021

METHOD BLANK: 3926998 Matrix: Water
Associated Lab Samples: 92649377019, 92649377020, 92649377021

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00078 | 02/16/23 19:33 | |
| Arsenic | mg/L | ND | 0.0050 | 0.0022 | 02/16/23 19:33 | |
| Barium | mg/L | ND | 0.0050 | 0.00067 | 02/16/23 19:33 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000054 | 02/16/23 19:33 | |
| Boron | mg/L | ND | 0.040 | 0.0086 | 02/16/23 19:33 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00011 | 02/16/23 19:33 | |
| Chromium | mg/L | ND | 0.0050 | 0.0011 | 02/17/23 16:37 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00039 | 02/16/23 19:33 | |
| Lead | mg/L | ND | 0.0010 | 0.00089 | 02/16/23 19:33 | |
| Lithium | mg/L | ND | 0.030 | 0.00073 | 02/16/23 19:33 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00074 | 02/16/23 19:33 | |
| Selenium | mg/L | ND | 0.0050 | 0.0014 | 02/16/23 19:33 | |
| Thallium | mg/L | ND | 0.0010 | 0.00018 | 02/16/23 19:33 | |

LABORATORY CONTROL SAMPLE: 3926999

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.11 | 111 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.11 | 112 | 80-120 | |
| Boron | mg/L | 1 | 1.1 | 111 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Lead | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.12 | 117 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.11 | 109 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.11 | 105 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3927000 3927001

| Parameter | Units | 92648451007 Result | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-----------|-------------|------------|----------|-----------|--------------|-----|---------|------|
| | | | Spike Conc. | MS Result | Spike Conc. | MSD Result | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 108 | 106 | 75-125 | 1 | 20 | |
| Arsenic | mg/L | 0.0040J | 0.1 | 0.1 | 0.11 | 0.11 | 109 | 109 | 75-125 | 0 | 20 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92649377

| Parameter | Units | 3927000 | | 3927001 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 92648451007 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Barium | mg/L | 0.017 | 0.1 | 0.1 | 0.12 | 0.12 | 104 | 102 | 75-125 | 2 | 20 | | |
| Beryllium | mg/L | 0.00039J | 0.1 | 0.1 | 0.086 | 0.084 | 85 | 83 | 75-125 | 2 | 20 | | |
| Boron | mg/L | 7.7 | 1 | 1 | 8.4 | 8.4 | 75 | 74 | 75-125 | 0 | 20 | | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.094 | 0.093 | 94 | 93 | 75-125 | 1 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 102 | 75-125 | 1 | 20 | | |
| Cobalt | mg/L | 0.035 | 0.1 | 0.1 | 0.13 | 0.13 | 92 | 90 | 75-125 | 1 | 20 | | |
| Lead | mg/L | 0.0011 | 0.1 | 0.1 | 0.093 | 0.091 | 92 | 90 | 75-125 | 3 | 20 | | |
| Lithium | mg/L | ND | 0.1 | 0.1 | 0.093 | 0.091 | 93 | 91 | 75-125 | 2 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 103 | 101 | 75-125 | 3 | 20 | | |
| Selenium | mg/L | 0.0036J | 0.1 | 0.1 | 0.11 | 0.11 | 110 | 108 | 75-125 | 2 | 20 | | |
| Thallium | mg/L | 0.00047J | 0.1 | 0.1 | 0.096 | 0.093 | 95 | 93 | 75-125 | 3 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92649377

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 754635 | Analysis Method: | EPA 7470A |
| QC Batch Method: | EPA 7470A | Analysis Description: | 7470 Mercury |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92649377001, 92649377002, 92649377003, 92649377004, 92649377005, 92649377006, 92649377007, 92649377008, 92649377009, 92649377010, 92649377011, 92649377012

METHOD BLANK: 3920549 Matrix: Water

Associated Lab Samples: 92649377001, 92649377002, 92649377003, 92649377004, 92649377005, 92649377006, 92649377007, 92649377008, 92649377009, 92649377010, 92649377011, 92649377012

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00020 | 0.00013 | 02/09/23 11:41 | |

LABORATORY CONTROL SAMPLE: 3920550

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0023 | 92 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3920551 3920552

| Parameter | Units | 92649377001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Mercury | mg/L | ND | 0.0025 | 0.0025 | 0.0025 | 0.0025 | 101 | 98 | 75-125 | 3 | 20 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92649377

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 755636 | Analysis Method: | EPA 7470A |
| QC Batch Method: | EPA 7470A | Analysis Description: | 7470 Mercury |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92649377013, 92649377014, 92649377015, 92649377016, 92649377017, 92649377018, 92649377019, 92649377020, 92649377021

METHOD BLANK: 3925965 Matrix: Water

Associated Lab Samples: 92649377013, 92649377014, 92649377015, 92649377016, 92649377017, 92649377018, 92649377019, 92649377020, 92649377021

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00020 | 0.00013 | 02/14/23 11:36 | |

LABORATORY CONTROL SAMPLE: 3925966

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0025 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925967 3925968

| Parameter | Units | 92649377013 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Mercury | mg/L | ND | 0.0025 | 0.0025 | 0.0023 | 0.0024 | 93 | 95 | 75-125 | 2 | 20 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92649377

QC Batch: 752849

Analysis Method: SM 2540C-2015

QC Batch Method: SM 2540C-2015

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92649377001, 92649377002, 92649377003, 92649377004, 92649377005, 92649377006, 92649377007, 92649377008, 92649377009, 92649377010, 92649377011, 92649377012, 92649377013, 92649377014, 92649377015, 92649377016

METHOD BLANK: 3911476

Matrix: Water

Associated Lab Samples: 92649377001, 92649377002, 92649377003, 92649377004, 92649377005, 92649377006, 92649377007, 92649377008, 92649377009, 92649377010, 92649377011, 92649377012, 92649377013, 92649377014, 92649377015, 92649377016

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 01/31/23 12:38 | |

LABORATORY CONTROL SAMPLE: 3911477

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 394 | 98 | 80-120 | |

SAMPLE DUPLICATE: 3911478

| Parameter | Units | 92649235011 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 396 | 414 | 4 | 10 | |

SAMPLE DUPLICATE: 3911479

| Parameter | Units | 92649377007 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 89.0 | 93.0 | 4 | 10 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92649377

QC Batch: 753439

Analysis Method: SM 2540C-2015

QC Batch Method: SM 2540C-2015

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92649377017, 92649377018

METHOD BLANK: 3914561

Matrix: Water

Associated Lab Samples: 92649377017, 92649377018

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 02/02/23 19:13 | |

LABORATORY CONTROL SAMPLE: 3914562

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 427 | 107 | 80-120 | |

SAMPLE DUPLICATE: 3914563

| Parameter | Units | 92649377017 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 188 | 204 | 8 | 10 | |

SAMPLE DUPLICATE: 3914564

| Parameter | Units | 92649235025 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 433 | 458 | 6 | 10 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92649377

QC Batch: 754118 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92649377019, 92649377020, 92649377021

METHOD BLANK: 3917651 Matrix: Water
Associated Lab Samples: 92649377019, 92649377020, 92649377021

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 02/07/23 18:37 | |

LABORATORY CONTROL SAMPLE: 3917652

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 408 | 102 | 80-120 | |

SAMPLE DUPLICATE: 3917653

| Parameter | Units | 92648451007 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 1950 | 2030 | 4 | 10 | 1g |

SAMPLE DUPLICATE: 3917654

| Parameter | Units | 92649377019 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 528 | 540 | 2 | 10 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92649377

QC Batch: 752813 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92649377001, 92649377002, 92649377003, 92649377004, 92649377005, 92649377006, 92649377007, 92649377008, 92649377009, 92649377010, 92649377011, 92649377012, 92649377013, 92649377014, 92649377015, 92649377016, 92649377017

METHOD BLANK: 3911193 Matrix: Water
Associated Lab Samples: 92649377001, 92649377002, 92649377003, 92649377004, 92649377005, 92649377006, 92649377007, 92649377008, 92649377009, 92649377010, 92649377011, 92649377012, 92649377013, 92649377014, 92649377015, 92649377016, 92649377017

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 02/01/23 08:25 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 02/01/23 08:25 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 02/01/23 08:25 | |

LABORATORY CONTROL SAMPLE: 3911194

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 49.5 | 99 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.6 | 102 | 90-110 | |
| Sulfate | mg/L | 50 | 48.2 | 96 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3911195 3911196

| Parameter | Units | 92649235018 Result | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-----------|------------|------|----------|-----------|--------------|-----|---------|------|
| | | | Spike Conc. | MS Result | MSD Result | | | | | | | |
| Chloride | mg/L | ND | 50 | 50 | 51.2 | 51.7 | 102 | 103 | 90-110 | 1 | 10 | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.5 | 2.6 | 102 | 103 | 90-110 | 1 | 10 | |
| Sulfate | mg/L | 0.57J | 50 | 50 | 49.3 | 50.0 | 97 | 99 | 90-110 | 1 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3911197 3911198

| Parameter | Units | 92649377008 Result | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-----------|------------|------|----------|-----------|--------------|-----|---------|------|
| | | | Spike Conc. | MS Result | MSD Result | | | | | | | |
| Chloride | mg/L | 7.7 | 50 | 50 | 59.0 | 59.3 | 103 | 103 | 90-110 | 0 | 10 | |
| Fluoride | mg/L | 0.098J | 2.5 | 2.5 | 2.6 | 2.6 | 99 | 101 | 90-110 | 1 | 10 | |
| Sulfate | mg/L | 214 | 50 | 50 | 262 | 265 | 96 | 101 | 90-110 | 1 | 10 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92649377

QC Batch: 753396 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92649377018

METHOD BLANK: 3914289 Matrix: Water
Associated Lab Samples: 92649377018

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 02/03/23 10:31 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 02/03/23 10:31 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 02/03/23 10:31 | |

LABORATORY CONTROL SAMPLE: 3914290

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 52.2 | 104 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.7 | 106 | 90-110 | |
| Sulfate | mg/L | 50 | 52.3 | 105 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3914291 3914292

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|--------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92649872013 Result | Spike Conc. | Spike Conc. | Result | | | | | | | | |
| Chloride | mg/L | 4.1 | 50 | 50 | 54.2 | 54.6 | 100 | 101 | 90-110 | 1 | 10 | | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.6 | 2.6 | 100 | 101 | 90-110 | 1 | 10 | | |
| Sulfate | mg/L | 2.8 | 50 | 50 | 52.9 | 53.3 | 100 | 101 | 90-110 | 1 | 10 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3914293 3914294

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|--------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92649378004 Result | Spike Conc. | Spike Conc. | Result | | | | | | | | |
| Chloride | mg/L | 83.4 | 50 | 50 | 124 | 123 | 80 | 80 | 90-110 | 0 | 10 | M1 | |
| Fluoride | mg/L | 0.087J | 2.5 | 2.5 | 2.6 | 2.6 | 101 | 101 | 90-110 | 0 | 10 | | |
| Sulfate | mg/L | 895 | 50 | 50 | 936 | 932 | 82 | 75 | 90-110 | 0 | 10 | M1 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92649377

QC Batch: 754257 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92649377019, 92649377020, 92649377021

METHOD BLANK: 3918313 Matrix: Water
 Associated Lab Samples: 92649377019, 92649377020, 92649377021

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 02/07/23 15:10 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 02/07/23 15:10 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 02/07/23 15:10 | |

LABORATORY CONTROL SAMPLE: 3918314

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 50.7 | 101 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.5 | 102 | 90-110 | |
| Sulfate | mg/L | 50 | 50.4 | 101 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918315 3918316

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92650071001 Result | Spike Conc. | Spike Conc. | Conc. | | | | | | | | |
| Chloride | mg/L | ND | 50 | 50 | 50 | 49.4 | 50.9 | 99 | 102 | 90-110 | 3 | 10 | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.5 | 2.4 | 2.5 | 94 | 96 | 90-110 | 3 | 10 | |
| Sulfate | mg/L | ND | 50 | 50 | 50 | 48.4 | 50.1 | 97 | 100 | 90-110 | 3 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918317 3918318

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92648451012 Result | Spike Conc. | Spike Conc. | Conc. | | | | | | | | |
| Chloride | mg/L | 189 | 50 | 50 | 50 | 233 | 235 | 88 | 91 | 90-110 | 1 | 10 M1 | |
| Fluoride | mg/L | 0.10 | 2.5 | 2.5 | 2.5 | 2.7 | 2.9 | 106 | 112 | 90-110 | 5 | 10 M1 | |
| Sulfate | mg/L | 1190 | 50 | 50 | 50 | 1220 | 1230 | 62 | 80 | 90-110 | 1 | 10 M1 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Hammond AP-1

Pace Project No.: 92649377

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1g Sample residue exceeded method SM 2540C recommended 200 mg.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92649377

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|----------------|-----------------|----------|-------------------|------------------|
| 92649377001 | HAM-HGWC-9 | | | | |
| 92649377002 | HAM-HGWC-11 | | | | |
| 92649377003 | HAM-HGWC-12 | | | | |
| 92649377004 | HAM-HGWC-13 | | | | |
| 92649377005 | HAM-MW-5 | | | | |
| 92649377006 | HAM-MW-6 | | | | |
| 92649377007 | HAM-MW-7 | | | | |
| 92649377008 | HAM-MW-19 | | | | |
| 92649377009 | HAM-MW-20 | | | | |
| 92649377010 | HAM-MW-24D | | | | |
| 92649377011 | HAM-MW-25D | | | | |
| 92649377012 | HAM-MW-26D | | | | |
| 92649377013 | HAM-MW-28D | | | | |
| 92649377014 | HAM-MW-29 | | | | |
| 92649377016 | HAM-HGWC-7 | | | | |
| 92649377017 | HAM-HGWC-10 | | | | |
| 92649377018 | HAM-MW-27D | | | | |
| 92649377019 | HAM-HGWC-8 | | | | |
| 92649377001 | HAM-HGWC-9 | EPA 3010A | 762460 | EPA 6010D | 762514 |
| 92649377002 | HAM-HGWC-11 | EPA 3010A | 762460 | EPA 6010D | 762514 |
| 92649377003 | HAM-HGWC-12 | EPA 3010A | 762460 | EPA 6010D | 762514 |
| 92649377004 | HAM-HGWC-13 | EPA 3010A | 762460 | EPA 6010D | 762514 |
| 92649377005 | HAM-MW-5 | EPA 3010A | 762460 | EPA 6010D | 762514 |
| 92649377006 | HAM-MW-6 | EPA 3010A | 762460 | EPA 6010D | 762514 |
| 92649377007 | HAM-MW-7 | EPA 3010A | 762460 | EPA 6010D | 762514 |
| 92649377008 | HAM-MW-19 | EPA 3010A | 762460 | EPA 6010D | 762514 |
| 92649377009 | HAM-MW-20 | EPA 3010A | 762460 | EPA 6010D | 762514 |
| 92649377010 | HAM-MW-24D | EPA 3010A | 762460 | EPA 6010D | 762514 |
| 92649377011 | HAM-MW-25D | EPA 3010A | 762460 | EPA 6010D | 762514 |
| 92649377012 | HAM-MW-26D | EPA 3010A | 762460 | EPA 6010D | 762514 |
| 92649377013 | HAM-MW-28D | EPA 3010A | 762460 | EPA 6010D | 762514 |
| 92649377014 | HAM-MW-29 | EPA 3010A | 762460 | EPA 6010D | 762514 |
| 92649377015 | HAM-AP-1-FD-01 | EPA 3010A | 762460 | EPA 6010D | 762514 |
| 92649377016 | HAM-HGWC-7 | EPA 3010A | 762460 | EPA 6010D | 762514 |
| 92649377017 | HAM-HGWC-10 | EPA 3010A | 762460 | EPA 6010D | 762514 |
| 92649377018 | HAM-MW-27D | EPA 3010A | 762460 | EPA 6010D | 762514 |
| 92649377019 | HAM-HGWC-8 | EPA 3010A | 755531 | EPA 6010D | 755685 |
| 92649377020 | HAM-AP-1-EB-01 | EPA 3010A | 755531 | EPA 6010D | 755685 |
| 92649377021 | HAM-AP-1-FB-01 | EPA 3010A | 755531 | EPA 6010D | 755685 |
| 92649377001 | HAM-HGWC-9 | EPA 3005A | 753122 | EPA 6020B | 753262 |
| 92649377002 | HAM-HGWC-11 | EPA 3005A | 753122 | EPA 6020B | 753262 |
| 92649377003 | HAM-HGWC-12 | EPA 3005A | 753122 | EPA 6020B | 753262 |
| 92649377004 | HAM-HGWC-13 | EPA 3005A | 753122 | EPA 6020B | 753262 |
| 92649377005 | HAM-MW-5 | EPA 3005A | 753122 | EPA 6020B | 753262 |
| 92649377006 | HAM-MW-6 | EPA 3005A | 753122 | EPA 6020B | 753262 |
| 92649377007 | HAM-MW-7 | EPA 3005A | 753122 | EPA 6020B | 753262 |
| 92649377008 | HAM-MW-19 | EPA 3005A | 753122 | EPA 6020B | 753262 |

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92649377

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|----------------|-----------------|----------|-------------------|------------------|
| 92649377009 | HAM-MW-20 | EPA 3005A | 753122 | EPA 6020B | 753262 |
| 92649377010 | HAM-MW-24D | EPA 3005A | 753122 | EPA 6020B | 753262 |
| 92649377011 | HAM-MW-25D | EPA 3005A | 753122 | EPA 6020B | 753262 |
| 92649377012 | HAM-MW-26D | EPA 3005A | 753122 | EPA 6020B | 753262 |
| 92649377013 | HAM-MW-28D | EPA 3005A | 753122 | EPA 6020B | 753262 |
| 92649377014 | HAM-MW-29 | EPA 3005A | 753122 | EPA 6020B | 753262 |
| 92649377015 | HAM-AP-1-FD-01 | EPA 3005A | 753122 | EPA 6020B | 753262 |
| 92649377016 | HAM-HGWC-7 | EPA 3005A | 753122 | EPA 6020B | 753262 |
| 92649377017 | HAM-HGWC-10 | EPA 3005A | 753122 | EPA 6020B | 753262 |
| 92649377018 | HAM-MW-27D | EPA 3005A | 753122 | EPA 6020B | 753262 |
| 92649377019 | HAM-HGWC-8 | EPA 3005A | 755827 | EPA 6020B | 755853 |
| 92649377020 | HAM-AP-1-EB-01 | EPA 3005A | 755827 | EPA 6020B | 755853 |
| 92649377021 | HAM-AP-1-FB-01 | EPA 3005A | 755827 | EPA 6020B | 755853 |
| 92649377001 | HAM-HGWC-9 | EPA 7470A | 754635 | EPA 7470A | 754885 |
| 92649377002 | HAM-HGWC-11 | EPA 7470A | 754635 | EPA 7470A | 754885 |
| 92649377003 | HAM-HGWC-12 | EPA 7470A | 754635 | EPA 7470A | 754885 |
| 92649377004 | HAM-HGWC-13 | EPA 7470A | 754635 | EPA 7470A | 754885 |
| 92649377005 | HAM-MW-5 | EPA 7470A | 754635 | EPA 7470A | 754885 |
| 92649377006 | HAM-MW-6 | EPA 7470A | 754635 | EPA 7470A | 754885 |
| 92649377007 | HAM-MW-7 | EPA 7470A | 754635 | EPA 7470A | 754885 |
| 92649377008 | HAM-MW-19 | EPA 7470A | 754635 | EPA 7470A | 754885 |
| 92649377009 | HAM-MW-20 | EPA 7470A | 754635 | EPA 7470A | 754885 |
| 92649377010 | HAM-MW-24D | EPA 7470A | 754635 | EPA 7470A | 754885 |
| 92649377011 | HAM-MW-25D | EPA 7470A | 754635 | EPA 7470A | 754885 |
| 92649377012 | HAM-MW-26D | EPA 7470A | 754635 | EPA 7470A | 754885 |
| 92649377013 | HAM-MW-28D | EPA 7470A | 755636 | EPA 7470A | 755687 |
| 92649377014 | HAM-MW-29 | EPA 7470A | 755636 | EPA 7470A | 755687 |
| 92649377015 | HAM-AP-1-FD-01 | EPA 7470A | 755636 | EPA 7470A | 755687 |
| 92649377016 | HAM-HGWC-7 | EPA 7470A | 755636 | EPA 7470A | 755687 |
| 92649377017 | HAM-HGWC-10 | EPA 7470A | 755636 | EPA 7470A | 755687 |
| 92649377018 | HAM-MW-27D | EPA 7470A | 755636 | EPA 7470A | 755687 |
| 92649377019 | HAM-HGWC-8 | EPA 7470A | 755636 | EPA 7470A | 755687 |
| 92649377020 | HAM-AP-1-EB-01 | EPA 7470A | 755636 | EPA 7470A | 755687 |
| 92649377021 | HAM-AP-1-FB-01 | EPA 7470A | 755636 | EPA 7470A | 755687 |
| 92649377001 | HAM-HGWC-9 | SM 2540C-2015 | 752849 | | |
| 92649377002 | HAM-HGWC-11 | SM 2540C-2015 | 752849 | | |
| 92649377003 | HAM-HGWC-12 | SM 2540C-2015 | 752849 | | |
| 92649377004 | HAM-HGWC-13 | SM 2540C-2015 | 752849 | | |
| 92649377005 | HAM-MW-5 | SM 2540C-2015 | 752849 | | |
| 92649377006 | HAM-MW-6 | SM 2540C-2015 | 752849 | | |
| 92649377007 | HAM-MW-7 | SM 2540C-2015 | 752849 | | |
| 92649377008 | HAM-MW-19 | SM 2540C-2015 | 752849 | | |
| 92649377009 | HAM-MW-20 | SM 2540C-2015 | 752849 | | |
| 92649377010 | HAM-MW-24D | SM 2540C-2015 | 752849 | | |
| 92649377011 | HAM-MW-25D | SM 2540C-2015 | 752849 | | |
| 92649377012 | HAM-MW-26D | SM 2540C-2015 | 752849 | | |
| 92649377013 | HAM-MW-28D | SM 2540C-2015 | 752849 | | |

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1

Pace Project No.: 92649377

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|----------------|------------------------|----------|-------------------|------------------|
| 92649377014 | HAM-MW-29 | SM 2540C-2015 | 752849 | | |
| 92649377015 | HAM-AP-1-FD-01 | SM 2540C-2015 | 752849 | | |
| 92649377016 | HAM-HGWC-7 | SM 2540C-2015 | 752849 | | |
| 92649377017 | HAM-HGWC-10 | SM 2540C-2015 | 753439 | | |
| 92649377018 | HAM-MW-27D | SM 2540C-2015 | 753439 | | |
| 92649377019 | HAM-HGWC-8 | SM 2540C-2015 | 754118 | | |
| 92649377020 | HAM-AP-1-EB-01 | SM 2540C-2015 | 754118 | | |
| 92649377021 | HAM-AP-1-FB-01 | SM 2540C-2015 | 754118 | | |
| 92649377001 | HAM-HGWC-9 | EPA 300.0 Rev 2.1 1993 | 752813 | | |
| 92649377002 | HAM-HGWC-11 | EPA 300.0 Rev 2.1 1993 | 752813 | | |
| 92649377003 | HAM-HGWC-12 | EPA 300.0 Rev 2.1 1993 | 752813 | | |
| 92649377004 | HAM-HGWC-13 | EPA 300.0 Rev 2.1 1993 | 752813 | | |
| 92649377005 | HAM-MW-5 | EPA 300.0 Rev 2.1 1993 | 752813 | | |
| 92649377006 | HAM-MW-6 | EPA 300.0 Rev 2.1 1993 | 752813 | | |
| 92649377007 | HAM-MW-7 | EPA 300.0 Rev 2.1 1993 | 752813 | | |
| 92649377008 | HAM-MW-19 | EPA 300.0 Rev 2.1 1993 | 752813 | | |
| 92649377009 | HAM-MW-20 | EPA 300.0 Rev 2.1 1993 | 752813 | | |
| 92649377010 | HAM-MW-24D | EPA 300.0 Rev 2.1 1993 | 752813 | | |
| 92649377011 | HAM-MW-25D | EPA 300.0 Rev 2.1 1993 | 752813 | | |
| 92649377012 | HAM-MW-26D | EPA 300.0 Rev 2.1 1993 | 752813 | | |
| 92649377013 | HAM-MW-28D | EPA 300.0 Rev 2.1 1993 | 752813 | | |
| 92649377014 | HAM-MW-29 | EPA 300.0 Rev 2.1 1993 | 752813 | | |
| 92649377015 | HAM-AP-1-FD-01 | EPA 300.0 Rev 2.1 1993 | 752813 | | |
| 92649377016 | HAM-HGWC-7 | EPA 300.0 Rev 2.1 1993 | 752813 | | |
| 92649377017 | HAM-HGWC-10 | EPA 300.0 Rev 2.1 1993 | 752813 | | |
| 92649377018 | HAM-MW-27D | EPA 300.0 Rev 2.1 1993 | 753396 | | |
| 92649377019 | HAM-HGWC-8 | EPA 300.0 Rev 2.1 1993 | 754257 | | |
| 92649377020 | HAM-AP-1-EB-01 | EPA 300.0 Rev 2.1 1993 | 754257 | | |
| 92649377021 | HAM-AP-1-FB-01 | EPA 300.0 Rev 2.1 1993 | 754257 | | |

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA power

Project #:

WO#: 92649377



Courier: Commercial Fed Ex Pace UPS USPS Other: Client

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer:

IR Gun ID: 230

Type of Ice: Wet Blue None

Cooler Temp: 4.1 Correction Factor: Add/Subtract (°C) +0

Cooler Temp Corrected (°C): 4.1

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Comments/Discrepancy:

| | | |
|---|--|-----|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: WG | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO# : 92649377

Project #

PM: BV

Due Date: 02/13/23

CLIENT: GA-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic 2N Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG9A-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|---|
| 1 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 3 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 4 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 6 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 7 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 8 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 9 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 11 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 12 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt
 Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # **WO# : 92649377**
 PM: BV Due Date: 02/13/23
 CLIENT: GA-GA Power

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9 3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | V5GU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|---|
| 1 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 3 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 4 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 6 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 7 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 8 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 9 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 11 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 12 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document

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

Collected 1/26/23

Section A Required Client Information: Company: GA Power Address: Atlanta, GA

Section B Required Project Information: Report To: SCS Contacts Copy To: Geosyntec Contacts

Section C Invoice Information: Attention: Southern CO. Company Name: Address: State: GA

Page: 1 of 2

Section D Required Client Information: Matrix Codes: DW, KT, WW, P, BL, MG, AN, OT, TS

Valid Matrix Codes: DW, KT, WW, P, BL, MG, AN, OT, TS

Sample IDs MUST BE UNIQUE

Requested Due Date/TAT: 10 Day

Requested Analysis Filtered (Y/N)

REGULATORY AGENCY: NPDES GROUND WATER DRINKING WATER UST ROPA OTHER

| ITEM # | MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | DATE | TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | Analysis Test | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) | |
|--------|-------------|-----------------------------|-----------|-----------|-----------|------|---------------------------|-----------------|--------------------------------|------------------|---------------|-----------------------------------|-------------------------|------------|-----------------------|-----------------------------|----------------------|-----|
| | | | COMPOSITE | CAMPURITE | | | | | H ₂ SO ₄ | HNO ₃ | | | | | | | | HCl |
| 1 | HAM-HGWC-9 | WG G | | | 1/26/2023 | 1524 | 17 | 5 | 2 | 3 | X | X | X | X | X | X | X | |
| 2 | HAM-HGWC-11 | WG G | | | 1/26/2023 | 1427 | 16 | 5 | 2 | 3 | X | X | X | X | X | X | X | |
| 3 | HAM-HGWC-12 | WG G | | | 1/26/2023 | 1225 | 17 | 5 | 2 | 3 | X | X | X | X | X | X | X | |
| 4 | HAM-HGWC-13 | WG G | | | 1/26/2023 | 1330 | 18 | 5 | 2 | 3 | X | X | X | X | X | X | X | |
| 5 | HAM-MM-5 | WG G | | | 1/26/2023 | 1114 | 17 | 5 | 2 | 3 | X | X | X | X | X | X | X | |
| 6 | HAM-MM-6 | WG G | | | 1/26/2023 | 1240 | 18 | 5 | 2 | 3 | X | X | X | X | X | X | X | |
| 7 | HAM-MM-7 | WG G | | | 1/26/2023 | 1404 | 16 | 5 | 2 | 3 | X | X | X | X | X | X | X | |
| 8 | HAM-MM-19 | WG G | | | 1/26/2023 | 1605 | 17 | 5 | 2 | 3 | X | X | X | X | X | X | X | |
| 9 | HAM-MM-20 | WG G | | | 1/26/2023 | 0949 | 17 | 5 | 2 | 3 | X | X | X | X | X | X | X | |
| 10 | HAM-MM-24D | WG G | | | 1/26/2023 | 1131 | 17 | 5 | 2 | 3 | X | X | X | X | X | X | X | |
| 11 | HAM-MM-25D | WG G | | | 1/26/2023 | 1014 | 15 | 5 | 2 | 3 | X | X | X | X | X | X | X | |
| 12 | HAM-MM-26D | WG G | | | 1/26/2023 | 1632 | 17 | 5 | 2 | 3 | X | X | X | X | X | X | X | |

Additional Comments: Requisitioned by / Affiliation: Date: 1/30/2023 Time: 11:50 AM

Accepted by / Affiliation: Date: 1/30/2023 Time: 11:50 AM

Signature: [Signatures]

Signature of Sampler: [Signature]

Date Signed: 01/30/2023

Temp in °C: [Blank]

Received on Ice (Y/N): [Blank]

Custody Sealed Cooler (Y/N): [Blank]

Samples Intact (Y/N): [Blank]

Important Note: By signing this form you are accepting Face's NET 30 day Payment Terms and agreeing to late charges of 1.5% per month for any late payments not paid within 30 days.

F ALL-Q-020 Rev 07 15-Feb-2007



CHAIN-OF-CUSTODY / Analytical Request Document

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

| | | |
|--|--|--|
| Section A Required Client Information: | Section B Required Project Information | Section C Invoice Information |
| Company: GA Power | Report To: SCS Contacts | Attention: Southern Co. |
| Address: Atlanta, GA | Copy To: Geosyntec Contacts | Company Name: |
| Email To: SCS Contacts | Purchase Order No.: | Address: |
| Phone: Fac | Project Name: Hammond AP-1 | Pace Quote Reference: Pace Project Manager: Pace Profile #: 10839 |
| Requested Due Date/TAT: 10 Day | Project Number: | Requested Analysis Filtered (Y/N) |
| REGULATORY AGENCY | | <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER CCR |
| Site Location STATE: GA | | Temp in °C |

| ITEM # | Section D Required Client Information | Valid Matrix Codes Section B Requester Client Information | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | Analysis Test | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|--------|--|---|---------------------------------------|-----------------------------|-----------|------|---------------------------|-----------------|---------------|---------------|-----------------------------------|-------------------------|----------------------------|
| | | | | | DATE | TIME | | | | | | | |
| 1 | HAM-HGWC-8 | DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID OK WPE MPE OTHER TISSE | WG G | G | 2/1/2023 | 1022 | 16 | 5 2 | | | | | pH = 6.60 |
| 2 | HAM-AP-1-EB-01 | | WG G | G | 2/1/2023 | 1450 | 16 | 5 2 | | | | | N/A |
| 3 | HAM-AP-1-FB-01 | | WG G | G | 2/1/2023 | 1440 | 16 | 5 2 | | | | | N/A |
| 4 | | | | | | | | | | | | | Last sample |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | | | | RELINQUISHED BY / AFFILIATION | | | | ACCEPTED BY / AFFILIATION | | | | SAMPLE CONDITIONS | | | |
|----------------------------------|--|--|--|-------------------------------|--|--|--|---------------------------|--|--|--|-----------------------------|--|--|--|
| Task Code: HAM-COR-ASSMT-2023ST0 | | | | Meredith Hester / Geosyntec | | | | Cristen Heg / Geosyntec | | | | Temp in °C | | | |
| | | | | Christine Heg / Geosyntec | | | | Ryan William / Pace | | | | Received on Ice (Y/N) | | | |
| | | | | Ryan William / Pace | | | | | | | | Custody Sealed Cooler (Y/N) | | | |
| | | | | | | | | | | | | Samples Intact (Y/N) | | | |

| | |
|----------------------------|-----------------------------|
| SAMPLER NAME AND SIGNATURE | |
| PRINT Name of SAMPLER: | Meredith Hester / Geosyntec |
| SIGNATURE of SAMPLER: | <i>[Signature]</i> |
| DATE Signed (MANDATORY): | 01/01/2023 |



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Project #:

GA Power

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/3/23 *COH*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 23 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.4

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | Comments/Discrepancy: |
|--|-----------------------|
| Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.?) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: <i>W</i> | |
| Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

| Item# | BP41U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic Zn Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2SO3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|-------|--|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|-----------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|---|
| 1 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 3 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 4 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 6 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 7 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 8 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 9 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 11 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 12 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

April 27, 2023

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between January 24, 2023 and January 26, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Stephanie Knott for
Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Noelia Gangi, Georgia Power
Ben Hodges, Georgia Power-CCR
Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Laura Midkiff, Georgia Power
Michael Smilley, Georgia Power
Tina Sullivan, ERM

Anthony Szwast, Geosyntec



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|--------------|--------|----------------|----------------|
| 92648446001 | HAM-HGWA-3 | Water | 01/23/23 16:49 | 01/24/23 12:38 |
| 92648446002 | HAM-HGWA-2 | Water | 01/24/23 09:35 | 01/26/23 11:15 |
| 92648446003 | HAM-HGWA-43D | Water | 01/24/23 10:55 | 01/26/23 11:15 |
| 92648446004 | HAM-HGWA-44D | Water | 01/24/23 10:57 | 01/26/23 11:15 |
| 92648446005 | HAM-HGWA-1 | Water | 01/24/23 09:35 | 01/26/23 11:15 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|--------------|------------------------|----------|-------------------|
| 92648446001 | HAM-HGWA-3 | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92648446002 | HAM-HGWA-2 | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| 92648446003 | HAM-HGWA-43D | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| 92648446004 | HAM-HGWA-44D | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92648446005 | HAM-HGWA-1 | EPA 6010D | DRB | 1 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|------------------------|----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92648446001 | HAM-HGWA-3 | | | | | |
| | Performed by | Customer | | | 02/15/23 10:56 | |
| | pH | 7.32 | Std. Units | | 02/15/23 10:56 | |
| EPA 6010D | Calcium | 85.0 | mg/L | 1.0 | 01/30/23 23:50 | M1 |
| EPA 6020B | Barium | 0.13 | mg/L | 0.0050 | 02/02/23 18:47 | |
| EPA 6020B | Boron | 0.012J | mg/L | 0.040 | 02/02/23 18:47 | |
| EPA 6020B | Lithium | 0.0030J | mg/L | 0.030 | 02/02/23 18:47 | |
| SM 2540C-2015 | Total Dissolved Solids | 293 | mg/L | 25.0 | 01/27/23 14:04 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 5.6 | mg/L | 1.0 | 01/25/23 23:05 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.061J | mg/L | 0.10 | 01/25/23 23:05 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 39.5 | mg/L | 1.0 | 01/25/23 23:05 | |
| 92648446002 | HAM-HGWA-2 | | | | | |
| | Performed by | Customer | | | 02/15/23 10:56 | |
| | pH | 5.22 | Std. Units | | 02/15/23 10:56 | |
| EPA 6010D | Calcium | 29.4 | mg/L | 1.0 | 02/02/23 21:19 | |
| EPA 6020B | Barium | 0.088 | mg/L | 0.0050 | 02/01/23 18:48 | |
| EPA 6020B | Beryllium | 0.00016J | mg/L | 0.00050 | 02/01/23 18:48 | |
| EPA 6020B | Boron | 0.046 | mg/L | 0.040 | 02/01/23 18:48 | |
| EPA 6020B | Cadmium | 0.00021J | mg/L | 0.00050 | 02/01/23 18:48 | |
| EPA 6020B | Cobalt | 0.024 | mg/L | 0.0050 | 02/01/23 18:48 | |
| EPA 6020B | Lithium | 0.0014J | mg/L | 0.030 | 02/01/23 18:48 | |
| SM 2540C-2015 | Total Dissolved Solids | 164 | mg/L | 25.0 | 01/27/23 14:08 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 7.1 | mg/L | 1.0 | 01/29/23 17:10 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.053J | mg/L | 0.10 | 01/29/23 17:10 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 79.7 | mg/L | 1.0 | 01/29/23 17:10 | |
| 92648446003 | HAM-HGWA-43D | | | | | |
| | Performed by | Customer | | | 02/15/23 10:57 | |
| | pH | 7.56 | Std. Units | | 02/15/23 10:57 | |
| EPA 6010D | Calcium | 56.6 | mg/L | 1.0 | 02/02/23 21:33 | |
| EPA 6020B | Barium | 0.28 | mg/L | 0.0050 | 02/01/23 18:54 | |
| EPA 6020B | Boron | 0.037J | mg/L | 0.040 | 02/01/23 18:54 | |
| EPA 6020B | Lithium | 0.0020J | mg/L | 0.030 | 02/01/23 18:54 | |
| EPA 6020B | Molybdenum | 0.0027J | mg/L | 0.010 | 02/01/23 18:54 | |
| SM 2540C-2015 | Total Dissolved Solids | 271 | mg/L | 25.0 | 01/27/23 14:08 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 4.3 | mg/L | 1.0 | 01/29/23 17:34 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.23 | mg/L | 0.10 | 01/29/23 17:34 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 34.7 | mg/L | 1.0 | 01/29/23 17:34 | |
| 92648446004 | HAM-HGWA-44D | | | | | |
| | Performed by | Customer | | | 02/15/23 10:57 | |
| | pH | 8.22 | Std. Units | | 02/15/23 10:57 | |
| EPA 6010D | Calcium | 13.2 | mg/L | 1.0 | 02/02/23 21:38 | |
| EPA 6020B | Arsenic | 0.0027J | mg/L | 0.0050 | 02/01/23 19:00 | |
| EPA 6020B | Barium | 0.18 | mg/L | 0.0050 | 02/01/23 19:00 | |
| EPA 6020B | Boron | 0.44 | mg/L | 0.040 | 02/01/23 19:00 | |
| EPA 6020B | Lithium | 0.064 | mg/L | 0.030 | 02/01/23 19:00 | |
| EPA 6020B | Molybdenum | 0.0026J | mg/L | 0.010 | 02/01/23 19:00 | |
| SM 2540C-2015 | Total Dissolved Solids | 363 | mg/L | 25.0 | 01/27/23 14:08 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|----------|------------|--------------|----------------|------------|
| 92648446004 | HAM-HGWA-44D | | | | | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 24.9 | mg/L | 1.0 | 01/31/23 01:07 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 1.3 | mg/L | 0.10 | 01/31/23 01:07 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 10.1 | mg/L | 1.0 | 01/31/23 01:07 | |
| 92648446005 | HAM-HGWA-1 | | | | | |
| | Performed by | Customer | | | 02/15/23 10:58 | |
| | pH | 6.76 | Std. Units | | 02/15/23 10:58 | |
| EPA 6010D | Calcium | 117 | mg/L | 1.0 | 02/02/23 21:43 | |
| EPA 6020B | Barium | 0.033 | mg/L | 0.0050 | 02/01/23 19:06 | |
| EPA 6020B | Boron | 0.015J | mg/L | 0.040 | 02/01/23 19:06 | |
| EPA 6020B | Lithium | 0.00092J | mg/L | 0.030 | 02/01/23 19:06 | |
| SM 2540C-2015 | Total Dissolved Solids | 369 | mg/L | 25.0 | 01/27/23 14:08 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 9.0 | mg/L | 1.0 | 01/31/23 01:33 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.089J | mg/L | 0.10 | 01/31/23 01:33 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 48.3 | mg/L | 1.0 | 01/31/23 01:33 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

| Sample: HAM-HGWA-3 | | Lab ID: 92648446001 | | Collected: 01/23/23 16:49 | | Received: 01/24/23 12:38 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 02/15/23 10:56 | | |
| pH | 7.32 | Std. Units | | | 1 | | 02/15/23 10:56 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 85.0 | mg/L | 1.0 | 0.12 | 1 | 01/30/23 15:10 | 01/30/23 23:50 | 7440-70-2 | M1 |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 01/30/23 12:30 | 02/02/23 18:47 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 01/30/23 12:30 | 02/02/23 18:47 | 7440-38-2 | |
| Barium | 0.13 | mg/L | 0.0050 | 0.00067 | 1 | 01/30/23 12:30 | 02/02/23 18:47 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 01/30/23 12:30 | 02/02/23 18:47 | 7440-41-7 | |
| Boron | 0.012J | mg/L | 0.040 | 0.0086 | 1 | 01/30/23 12:30 | 02/02/23 18:47 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 01/30/23 12:30 | 02/02/23 18:47 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 01/30/23 12:30 | 02/02/23 18:47 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 01/30/23 12:30 | 02/02/23 18:47 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 01/30/23 12:30 | 02/02/23 18:47 | 7439-92-1 | |
| Lithium | 0.0030J | mg/L | 0.030 | 0.00073 | 1 | 01/30/23 12:30 | 02/02/23 18:47 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 01/30/23 12:30 | 02/02/23 18:47 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 01/30/23 12:30 | 02/02/23 18:47 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 01/30/23 12:30 | 02/02/23 18:47 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/01/23 08:00 | 02/01/23 13:37 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 293 | mg/L | 25.0 | 25.0 | 1 | | 01/27/23 14:04 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 5.6 | mg/L | 1.0 | 0.60 | 1 | | 01/25/23 23:05 | 16887-00-6 | |
| Fluoride | 0.061J | mg/L | 0.10 | 0.050 | 1 | | 01/25/23 23:05 | 16984-48-8 | |
| Sulfate | 39.5 | mg/L | 1.0 | 0.50 | 1 | | 01/25/23 23:05 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

| Sample: HAM-HGWA-2 | | Lab ID: 92648446002 | | Collected: 01/24/23 09:35 | | Received: 01/26/23 11:15 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 02/15/23 10:56 | | |
| pH | 5.22 | Std. Units | | | 1 | | 02/15/23 10:56 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 29.4 | mg/L | 1.0 | 0.12 | 1 | 01/31/23 17:09 | 02/02/23 21:19 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 10:17 | 02/01/23 18:48 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 10:17 | 02/01/23 18:48 | 7440-38-2 | |
| Barium | 0.088 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 10:17 | 02/01/23 18:48 | 7440-39-3 | |
| Beryllium | 0.00016J | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 10:17 | 02/01/23 18:48 | 7440-41-7 | |
| Boron | 0.046 | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 10:17 | 02/01/23 18:48 | 7440-42-8 | |
| Cadmium | 0.00021J | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 10:17 | 02/01/23 18:48 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 10:17 | 02/01/23 18:48 | 7440-47-3 | |
| Cobalt | 0.024 | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 10:17 | 02/01/23 18:48 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 10:17 | 02/01/23 18:48 | 7439-92-1 | |
| Lithium | 0.0014J | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 10:17 | 02/01/23 18:48 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 10:17 | 02/01/23 18:48 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 10:17 | 02/01/23 18:48 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 10:17 | 02/01/23 18:48 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/01/23 08:00 | 02/01/23 13:40 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 164 | mg/L | 25.0 | 25.0 | 1 | | 01/27/23 14:08 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 7.1 | mg/L | 1.0 | 0.60 | 1 | | 01/29/23 17:10 | 16887-00-6 | |
| Fluoride | 0.053J | mg/L | 0.10 | 0.050 | 1 | | 01/29/23 17:10 | 16984-48-8 | |
| Sulfate | 79.7 | mg/L | 1.0 | 0.50 | 1 | | 01/29/23 17:10 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

| Sample: HAM-HGWA-43D | | Lab ID: 92648446003 | | Collected: 01/24/23 10:55 | | Received: 01/26/23 11:15 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 02/15/23 10:57 | | |
| pH | 7.56 | Std. Units | | | 1 | | 02/15/23 10:57 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 56.6 | mg/L | 1.0 | 0.12 | 1 | 01/31/23 17:09 | 02/02/23 21:33 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 10:17 | 02/01/23 18:54 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 10:17 | 02/01/23 18:54 | 7440-38-2 | |
| Barium | 0.28 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 10:17 | 02/01/23 18:54 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 10:17 | 02/01/23 18:54 | 7440-41-7 | |
| Boron | 0.037J | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 10:17 | 02/01/23 18:54 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 10:17 | 02/01/23 18:54 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 10:17 | 02/01/23 18:54 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 10:17 | 02/01/23 18:54 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 10:17 | 02/01/23 18:54 | 7439-92-1 | |
| Lithium | 0.0020J | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 10:17 | 02/01/23 18:54 | 7439-93-2 | |
| Molybdenum | 0.0027J | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 10:17 | 02/01/23 18:54 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 10:17 | 02/01/23 18:54 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 10:17 | 02/01/23 18:54 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/01/23 08:00 | 02/01/23 13:42 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 271 | mg/L | 25.0 | 25.0 | 1 | | 01/27/23 14:08 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 4.3 | mg/L | 1.0 | 0.60 | 1 | | 01/29/23 17:34 | 16887-00-6 | |
| Fluoride | 0.23 | mg/L | 0.10 | 0.050 | 1 | | 01/29/23 17:34 | 16984-48-8 | |
| Sulfate | 34.7 | mg/L | 1.0 | 0.50 | 1 | | 01/29/23 17:34 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Sample: HAM-HGWA-44D **Lab ID: 92648446004** Collected: 01/24/23 10:57 Received: 01/26/23 11:15 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

Field Data

Analytical Method:
Pace Analytical Services - Charlotte

| | | | | | | | | | |
|--------------|-----------------|------------|--|--|---|--|----------------|--|--|
| Performed by | Customer | | | | 1 | | 02/15/23 10:57 | | |
| pH | 8.22 | Std. Units | | | 1 | | 02/15/23 10:57 | | |

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|---------|-------------|------|-----|------|---|----------------|----------------|-----------|--|
| Calcium | 13.2 | mg/L | 1.0 | 0.12 | 1 | 01/31/23 17:09 | 02/02/23 21:38 | 7440-70-2 | |
|---------|-------------|------|-----|------|---|----------------|----------------|-----------|--|

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|------------|----------------|------|---------|----------|---|----------------|----------------|-----------|--|
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 10:17 | 02/01/23 19:00 | 7440-36-0 | |
| Arsenic | 0.0027J | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 10:17 | 02/01/23 19:00 | 7440-38-2 | |
| Barium | 0.18 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 10:17 | 02/01/23 19:00 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 10:17 | 02/01/23 19:00 | 7440-41-7 | |
| Boron | 0.44 | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 10:17 | 02/01/23 19:00 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 10:17 | 02/01/23 19:00 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 10:17 | 02/01/23 19:00 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 10:17 | 02/01/23 19:00 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 10:17 | 02/01/23 19:00 | 7439-92-1 | |
| Lithium | 0.064 | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 10:17 | 02/01/23 19:00 | 7439-93-2 | |
| Molybdenum | 0.0026J | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 10:17 | 02/01/23 19:00 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 10:17 | 02/01/23 19:00 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 10:17 | 02/01/23 19:00 | 7440-28-0 | |

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|---------|----|------|---------|---------|---|----------------|----------------|-----------|--|
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/01/23 08:00 | 02/01/23 13:45 | 7439-97-6 | |
|---------|----|------|---------|---------|---|----------------|----------------|-----------|--|

2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|------------------------|------------|------|------|------|---|--|----------------|--|--|
| Total Dissolved Solids | 363 | mg/L | 25.0 | 25.0 | 1 | | 01/27/23 14:08 | | |
|------------------------|------------|------|------|------|---|--|----------------|--|--|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Chloride | 24.9 | mg/L | 1.0 | 0.60 | 1 | | 01/31/23 01:07 | 16887-00-6 | |
| Fluoride | 1.3 | mg/L | 0.10 | 0.050 | 1 | | 01/31/23 01:07 | 16984-48-8 | |
| Sulfate | 10.1 | mg/L | 1.0 | 0.50 | 1 | | 01/31/23 01:07 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

| Sample: HAM-HGWA-1 | | Lab ID: 92648446005 | | Collected: 01/24/23 09:35 | | Received: 01/26/23 11:15 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 02/15/23 10:58 | | |
| pH | 6.76 | Std. Units | | | 1 | | 02/15/23 10:58 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | 117 | mg/L | 1.0 | 0.12 | 1 | 01/31/23 17:09 | 02/02/23 21:43 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 02/01/23 10:17 | 02/01/23 19:06 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 02/01/23 10:17 | 02/01/23 19:06 | 7440-38-2 | |
| Barium | 0.033 | mg/L | 0.0050 | 0.00067 | 1 | 02/01/23 10:17 | 02/01/23 19:06 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 02/01/23 10:17 | 02/01/23 19:06 | 7440-41-7 | |
| Boron | 0.015J | mg/L | 0.040 | 0.0086 | 1 | 02/01/23 10:17 | 02/01/23 19:06 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 02/01/23 10:17 | 02/01/23 19:06 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 02/01/23 10:17 | 02/01/23 19:06 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 02/01/23 10:17 | 02/01/23 19:06 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 02/01/23 10:17 | 02/01/23 19:06 | 7439-92-1 | |
| Lithium | 0.00092J | mg/L | 0.030 | 0.00073 | 1 | 02/01/23 10:17 | 02/01/23 19:06 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 02/01/23 10:17 | 02/01/23 19:06 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 02/01/23 10:17 | 02/01/23 19:06 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 02/01/23 10:17 | 02/01/23 19:06 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 02/01/23 08:00 | 02/01/23 13:47 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 369 | mg/L | 25.0 | 25.0 | 1 | | 01/27/23 14:08 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 9.0 | mg/L | 1.0 | 0.60 | 1 | | 01/31/23 01:33 | 16887-00-6 | |
| Fluoride | 0.089J | mg/L | 0.10 | 0.050 | 1 | | 01/31/23 01:33 | 16984-48-8 | |
| Sulfate | 48.3 | mg/L | 1.0 | 0.50 | 1 | | 01/31/23 01:33 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

QC Batch: 752651 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92648446001

METHOD BLANK: 3910594 Matrix: Water
Associated Lab Samples: 92648446001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 01/30/23 23:40 | |

LABORATORY CONTROL SAMPLE: 3910595

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 1 | 0.99J | 99 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3910596 3910597

| Parameter | Units | 3910596 | | 3910597 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Calcium | mg/L | 85.0 | 1 | 80.4 | 83.9 | -467 | -112 | 75-125 | 4 | 20 | M1 |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

QC Batch: 752956

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92648446002, 92648446003, 92648446004, 92648446005

METHOD BLANK: 3912342

Matrix: Water

Associated Lab Samples: 92648446002, 92648446003, 92648446004, 92648446005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 02/02/23 20:40 | |

LABORATORY CONTROL SAMPLE: 3912343

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 1 | 1.1 | 105 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3912344 3912345

| Parameter | Units | 3912344 | | 3912345 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Calcium | mg/L | 1 | 1 | 4.1 | 4.3 | 96 | 117 | 75-125 | 5 | 20 | |

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

QC Batch: 752599 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92648446001

METHOD BLANK: 3910295 Matrix: Water
Associated Lab Samples: 92648446001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00078 | 02/02/23 18:35 | |
| Arsenic | mg/L | ND | 0.0050 | 0.0022 | 02/02/23 18:35 | |
| Barium | mg/L | ND | 0.0050 | 0.00067 | 02/02/23 18:35 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000054 | 02/02/23 18:35 | |
| Boron | mg/L | ND | 0.040 | 0.0086 | 02/02/23 18:35 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00011 | 02/02/23 18:35 | |
| Chromium | mg/L | ND | 0.0050 | 0.0011 | 02/02/23 18:35 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00039 | 02/02/23 18:35 | |
| Lead | mg/L | ND | 0.0010 | 0.00089 | 02/02/23 18:35 | |
| Lithium | mg/L | ND | 0.030 | 0.00073 | 02/02/23 18:35 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00074 | 02/02/23 18:35 | |
| Selenium | mg/L | ND | 0.0050 | 0.0014 | 02/02/23 18:35 | |
| Thallium | mg/L | ND | 0.0010 | 0.00018 | 02/02/23 18:35 | |

LABORATORY CONTROL SAMPLE: 3910296

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Barium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Boron | mg/L | 1 | 1.0 | 104 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Lead | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.097 | 97 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.096 | 96 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3910297 3910298

| Parameter | Units | 92648446001 Result | MS | | MSD | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------|-------------|--------|--------|-------|-------|--------------|-----|---------|------|
| | | | Conc. | Spike Conc. | Result | Result | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 100 | 75-125 | 1 | 20 | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 101 | 75-125 | 0 | 20 | |

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

| Parameter | Units | 3910297 | | 3910298 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 92648446001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Barium | mg/L | 0.13 | 0.1 | 0.1 | 0.22 | 0.22 | 97 | 90 | 75-125 | 3 | 20 | | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.089 | 0.089 | 89 | 89 | 75-125 | 0 | 20 | | |
| Boron | mg/L | 0.012J | 1 | 1 | 0.92 | 0.93 | 91 | 92 | 75-125 | 2 | 20 | | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.097 | 100 | 97 | 75-125 | 3 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.096 | 99 | 96 | 75-125 | 3 | 20 | | |
| Cobalt | mg/L | ND | 0.1 | 0.1 | 0.098 | 0.097 | 98 | 97 | 75-125 | 1 | 20 | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.097 | 0.095 | 97 | 95 | 75-125 | 2 | 20 | | |
| Lithium | mg/L | 0.0030J | 0.1 | 0.1 | 0.092 | 0.091 | 89 | 88 | 75-125 | 1 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.098 | 99 | 98 | 75-125 | 1 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 100 | 75-125 | 2 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.096 | 0.096 | 96 | 96 | 75-125 | 0 | 20 | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

QC Batch: 753097 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92648446002, 92648446003, 92648446004, 92648446005

METHOD BLANK: 3912787 Matrix: Water
Associated Lab Samples: 92648446002, 92648446003, 92648446004, 92648446005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00078 | 02/01/23 17:13 | |
| Arsenic | mg/L | ND | 0.0050 | 0.0022 | 02/01/23 17:13 | |
| Barium | mg/L | ND | 0.0050 | 0.00067 | 02/01/23 17:13 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000054 | 02/01/23 17:13 | |
| Boron | mg/L | ND | 0.040 | 0.0086 | 02/01/23 17:13 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00011 | 02/01/23 17:13 | |
| Chromium | mg/L | ND | 0.0050 | 0.0011 | 02/01/23 17:13 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00039 | 02/01/23 17:13 | |
| Lead | mg/L | ND | 0.0010 | 0.00089 | 02/01/23 17:13 | |
| Lithium | mg/L | ND | 0.030 | 0.00073 | 02/01/23 17:13 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00074 | 02/01/23 17:13 | |
| Selenium | mg/L | ND | 0.0050 | 0.0014 | 02/01/23 17:13 | |
| Thallium | mg/L | ND | 0.0010 | 0.00018 | 02/01/23 17:13 | |

LABORATORY CONTROL SAMPLE: 3912788

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.11 | 107 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Boron | mg/L | 1 | 1.0 | 101 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.096 | 96 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.094 | 94 | 80-120 | |
| Lead | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.10 | 104 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3912789 3912790

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92649067001 | Spike Conc. | Spike Conc. | Conc. | | | | | | | | |
| Antimony | mg/L | 3.4 ug/L | 0.1 | 0.1 | 0.11 | 0.11 | 105 | 102 | 75-125 | 2 | 20 | | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 100 | 99 | 75-125 | 1 | 20 | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

| Parameter | Units | 3912789 | | 3912790 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|------------|-----|------|
| | | 92649067001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Barium | mg/L | 47.9 ug/L | 0.1 | 0.1 | 0.15 | 0.15 | 104 | 99 | 75-125 | 3 | 20 | | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 100 | 101 | 75-125 | 1 | 20 | | |
| Boron | mg/L | ND | 1 | 1 | 1.0 | 1.0 | 103 | 102 | 75-125 | 1 | 20 | | |
| Cadmium | mg/L | 1.2 ug/L | 0.1 | 0.1 | 0.10 | 0.097 | 99 | 96 | 75-125 | 3 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 104 | 100 | 75-125 | 4 | 20 | | |
| Cobalt | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 98 | 75-125 | 3 | 20 | | |
| Lead | mg/L | 81.8 ug/L | 0.1 | 0.1 | 0.19 | 0.18 | 105 | 101 | 75-125 | 2 | 20 | | |
| Lithium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 104 | 103 | 75-125 | 1 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 104 | 101 | 75-125 | 2 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 100 | 100 | 75-125 | 0 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 103 | 101 | 75-125 | 2 | 20 | | |

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 752854 | Analysis Method: | EPA 7470A |
| QC Batch Method: | EPA 7470A | Analysis Description: | 7470 Mercury |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92648446001, 92648446002, 92648446003, 92648446004, 92648446005

METHOD BLANK: 3911513 Matrix: Water
Associated Lab Samples: 92648446001, 92648446002, 92648446003, 92648446004, 92648446005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00020 | 0.00013 | 02/01/23 12:44 | |

LABORATORY CONTROL SAMPLE: 3911514

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0024 | 94 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3911518 3911519

| Parameter | Units | 3911518 | | 3911519 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Mercury | mg/L | ND | 0.0025 | 0.0022 | 0.0022 | 88 | 88 | 75-125 | 0 | 20 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

QC Batch: 752254

Analysis Method: SM 2540C-2015

QC Batch Method: SM 2540C-2015

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92648446001, 92648446002, 92648446003, 92648446004, 92648446005

METHOD BLANK: 3908925

Matrix: Water

Associated Lab Samples: 92648446001, 92648446002, 92648446003, 92648446004, 92648446005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 01/27/23 14:00 | |

LABORATORY CONTROL SAMPLE: 3908926

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 371 | 93 | 80-120 | |

SAMPLE DUPLICATE: 3908927

| Parameter | Units | 92648636001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | ND | 71.0 | | 10 | |

SAMPLE DUPLICATE: 3908928

| Parameter | Units | 92649038017 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 146 | 147 | 1 | 10 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

QC Batch: 751618 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92648446001

METHOD BLANK: 3905644 Matrix: Water
Associated Lab Samples: 92648446001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 01/25/23 18:08 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 01/25/23 18:08 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 01/25/23 18:08 | |

LABORATORY CONTROL SAMPLE: 3905645

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 53.2 | 106 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.7 | 110 | 90-110 | |
| Sulfate | mg/L | 50 | 53.3 | 107 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3905646 3905647

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92648208001 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Chloride | mg/L | 8.7 | 50 | 50 | 57.0 | 59.0 | 97 | 100 | 90-110 | 3 | 10 | | |
| Fluoride | mg/L | 0.47 | 2.5 | 2.5 | 2.9 | 3.0 | 98 | 102 | 90-110 | 3 | 10 | | |
| Sulfate | mg/L | 3.9 | 50 | 50 | 52.2 | 54.1 | 97 | 100 | 90-110 | 4 | 10 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3905648 3905649

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92648324002 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Chloride | mg/L | 16.9 | 50 | 50 | 66.5 | 67.2 | 99 | 101 | 90-110 | 1 | 10 | | |
| Fluoride | mg/L | 0.066J | 2.5 | 2.5 | 2.6 | 2.6 | 101 | 101 | 90-110 | 0 | 10 | | |
| Sulfate | mg/L | 19.0 | 50 | 50 | 69.4 | 69.8 | 101 | 102 | 90-110 | 1 | 10 | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

QC Batch: 752456 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92648446002, 92648446003

METHOD BLANK: 3909761 Matrix: Water
Associated Lab Samples: 92648446002, 92648446003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 01/29/23 05:16 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 01/29/23 05:16 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 01/29/23 05:16 | |

LABORATORY CONTROL SAMPLE: 3909762

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 50.7 | 101 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.6 | 103 | 90-110 | |
| Sulfate | mg/L | 50 | 50.7 | 101 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3909763 3909764

| Parameter | Units | 92649224020 | | MS | | MSD | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------|-------------|-------------|--------|--------|-------|--------|--------------|-----|---------|------|
| | | Result | Conc. | Spike Conc. | Spike Conc. | Result | Result | | | | | | |
| Chloride | mg/L | ND | 50 | 50 | 50.7 | 51.2 | 101 | 102 | 90-110 | 1 | 10 | | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.6 | 2.6 | 105 | 105 | 90-110 | 0 | 10 | | |
| Sulfate | mg/L | ND | 50 | 50 | 50.3 | 50.7 | 101 | 101 | 90-110 | 1 | 10 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3909765 3909766

| Parameter | Units | 92649038010 | | MS | | MSD | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------|-------------|-------------|--------|--------|-------|--------|--------------|-------|---------|------|
| | | Result | Conc. | Spike Conc. | Spike Conc. | Result | Result | | | | | | |
| Chloride | mg/L | 6.0 | 50 | 50 | 57.0 | 57.6 | 102 | 103 | 90-110 | 1 | 10 | | |
| Fluoride | mg/L | 0.052J | 2.5 | 2.5 | 2.6 | 2.6 | 100 | 102 | 90-110 | 1 | 10 | | |
| Sulfate | mg/L | 228 | 50 | 50 | 269 | 270 | 83 | 84 | 90-110 | 0 | 10 M1 | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

QC Batch: 752690 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92648446004, 92648446005

METHOD BLANK: 3910852 Matrix: Water

Associated Lab Samples: 92648446004, 92648446005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 01/30/23 22:32 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 01/30/23 22:32 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 01/30/23 22:32 | |

LABORATORY CONTROL SAMPLE: 3910853

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 49.6 | 99 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.6 | 104 | 90-110 | |
| Sulfate | mg/L | 50 | 49.7 | 99 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3910854 3910855

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92648913001 Result | Spike Conc. | Spike Conc. | Conc. | | | | | | | | |
| Chloride | mg/L | 2.7 | 50 | 50 | 52.0 | 52.7 | 99 | 100 | 90-110 | 1 | 10 | | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.5 | 2.5 | 98 | 100 | 90-110 | 1 | 10 | | |
| Sulfate | mg/L | ND | 50 | 50 | 48.5 | 49.4 | 97 | 99 | 90-110 | 2 | 10 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3910856 3910857

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92649042009 Result | Spike Conc. | Spike Conc. | Conc. | | | | | | | | |
| Chloride | mg/L | ND | 50 | 50 | 51.0 | 51.2 | 102 | 102 | 90-110 | 0 | 10 | | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.6 | 2.6 | 103 | 104 | 90-110 | 1 | 10 | | |
| Sulfate | mg/L | ND | 50 | 50 | 50.4 | 50.7 | 101 | 101 | 90-110 | 1 | 10 | | |

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QUALIFIERS

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------|------------------------|----------|-------------------|------------------|
| 92648446001 | HAM-HGWA-3 | | | | |
| 92648446002 | HAM-HGWA-2 | | | | |
| 92648446003 | HAM-HGWA-43D | | | | |
| 92648446004 | HAM-HGWA-44D | | | | |
| 92648446005 | HAM-HGWA-1 | | | | |
| 92648446001 | HAM-HGWA-3 | EPA 3010A | 752651 | EPA 6010D | 752696 |
| 92648446002 | HAM-HGWA-2 | EPA 3010A | 752956 | EPA 6010D | 753082 |
| 92648446003 | HAM-HGWA-43D | EPA 3010A | 752956 | EPA 6010D | 753082 |
| 92648446004 | HAM-HGWA-44D | EPA 3010A | 752956 | EPA 6010D | 753082 |
| 92648446005 | HAM-HGWA-1 | EPA 3010A | 752956 | EPA 6010D | 753082 |
| 92648446001 | HAM-HGWA-3 | EPA 3005A | 752599 | EPA 6020B | 752695 |
| 92648446002 | HAM-HGWA-2 | EPA 3005A | 753097 | EPA 6020B | 753234 |
| 92648446003 | HAM-HGWA-43D | EPA 3005A | 753097 | EPA 6020B | 753234 |
| 92648446004 | HAM-HGWA-44D | EPA 3005A | 753097 | EPA 6020B | 753234 |
| 92648446005 | HAM-HGWA-1 | EPA 3005A | 753097 | EPA 6020B | 753234 |
| 92648446001 | HAM-HGWA-3 | EPA 7470A | 752854 | EPA 7470A | 753068 |
| 92648446002 | HAM-HGWA-2 | EPA 7470A | 752854 | EPA 7470A | 753068 |
| 92648446003 | HAM-HGWA-43D | EPA 7470A | 752854 | EPA 7470A | 753068 |
| 92648446004 | HAM-HGWA-44D | EPA 7470A | 752854 | EPA 7470A | 753068 |
| 92648446005 | HAM-HGWA-1 | EPA 7470A | 752854 | EPA 7470A | 753068 |
| 92648446001 | HAM-HGWA-3 | SM 2540C-2015 | 752254 | | |
| 92648446002 | HAM-HGWA-2 | SM 2540C-2015 | 752254 | | |
| 92648446003 | HAM-HGWA-43D | SM 2540C-2015 | 752254 | | |
| 92648446004 | HAM-HGWA-44D | SM 2540C-2015 | 752254 | | |
| 92648446005 | HAM-HGWA-1 | SM 2540C-2015 | 752254 | | |
| 92648446001 | HAM-HGWA-3 | EPA 300.0 Rev 2.1 1993 | 751618 | | |
| 92648446002 | HAM-HGWA-2 | EPA 300.0 Rev 2.1 1993 | 752456 | | |
| 92648446003 | HAM-HGWA-43D | EPA 300.0 Rev 2.1 1993 | 752456 | | |
| 92648446004 | HAM-HGWA-44D | EPA 300.0 Rev 2.1 1993 | 752690 | | |
| 92648446005 | HAM-HGWA-1 | EPA 300.0 Rev 2.1 1993 | 752690 | | |

REPORT OF LABORATORY ANALYSIS

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



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Knoxville

Sample Condition Upon Receipt

Client Name:

E A Power

Project #:

WO#: 92648446



Courier: Commercial Fed Ex Pace UPS USPS Other: Client

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *1/24/23*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer:

IR Gun ID: *230* Type of Ice: Wet Blue None

Cooler Temp: *4.4* Correction Factor: Add/Subtract (°C) *0.0*

Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *4.4*

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | | | Comments/Discrepancy: |
|--|---|--|---|-----------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: <i>W</i> | | | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

WO#: 92648446

PM: BV

Due Date: 02/07/23

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: GA-GA Power

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFLU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|--|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|--|
| 1 | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document

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

| | |
|---|---|
| Section A Required Client Information: Company: GA Power Address: Atlanta, GA Email To: SCS Contacts Phone: _____ Fax: _____ Requested Due Date/TAT: 10 Day | Section B Required Project Information: Report To: SCS Contacts Copy To: Geosynlec Contacts Task Code: HAM-CCR-ASSMNT-2023S1 Purchase Order No.: _____ Project Name: Plant Hammond Pooled Upgradient Project Number: _____ |
| Section C Invoice Information: Attention: Southern Co. Company Name Address: _____ P.O. Box: _____ Reference: _____ Project Manager: _____ Pace Profile #: 10839 | REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER CCR Site Location: _____ STATE: GA |

| ITEM # | Section D Required Client Information | Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WATER WW WASTE WATER P PRODUCT S.L. SOLUTION O.L. OIL W.P. AIR W.P. AIR W.P. OTHER W.P. T.S. | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | Analysis Test | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. | |
|--------|--|--|---------------------------------------|-----------------------------|-----------|-----------|---------------------------|-----------------|--------------------------------|------------------|-----|---------------|-----------------------------------|-------------------------|----------------------------|------|
| | | | | | COMPOSITE | COMPOSITE | | | H ₂ SO ₄ | HNO ₃ | HCl | | | | | NaOH |
| 1 | HAM-HGWA-3 | | WG | G | DATE | TIME | DATE | TIME | 17 | 5 | 2 | 3 | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | | REMOVED BY / AFFILIATION | | DATE | | TIME | | ACCEPTED BY / AFFILIATION | | DATE | | TIME | | SAMPLE CONDITIONS | |
|-----------------------|--|--------------------------|--|-----------|--|------|--|---------------------------|--|-----------|--|------|--|-------------------|--|
| HAM-CCR-ASSMNT-2023S1 | | Kwan Hoedter/Geosynlec | | 1/21/2023 | | 1236 | | Lyan Williams/Pace | | 1/21/2023 | | 1040 | | | |
| | | Lyan Williams/Pace | | 1/21/2023 | | 1236 | | Lyan Williams/Pace | | 1/21/2023 | | 1040 | | | |

| | | | |
|--|--|---|--|
| SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: _____ SIGNATURE of SAMPLER: _____ | | DATE Signed (MM/DD/YY): 1/23/23 (SAMPLER): _____ | |
| SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: _____ SIGNATURE of SAMPLER: _____ | | DATE Signed (MM/DD/YY): 1/23/23 (SAMPLER): _____ | |

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to the charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020/rev 07, 15-Feb-2007



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mecklenburg

WO#: 92648446

PM: BV Due Date: 02/07/23
CLIENT: GA-GA Power

Sample Condition Upon Receipt

Client Name: Georgia Power Project #:

Courier: Fed Ex UPS USPS Client Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 1.3 Correction Factor: Add/Subtract (°C) 0 0

Cooler Temp Corrected (°C): 1.3

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Date/Initials Person Examining Contents: 1/26/23 Jm

Biological Tissue Frozen? Yes No N/A

Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun

| | | | Comments/Discrepancy: |
|---|--|-----|-----------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. | |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. | |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 3. | |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. | |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. | |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. | |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. | |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. | |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. | |
| -Includes Date/Time/ID/Analysis Matrix: W6/W6 | | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. | |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. | |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92648446

PM: BV

Due Date: 02/07/23

CLIENT: GA-GA Power

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG9A-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BPIA | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG6U-100 mL Amber Unpreserved (N/A) (Cl-) | V5GU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|------|---|---|--------------------------------------|--|
| 1 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 3 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 4 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 6 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 7 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 8 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 9 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 11 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 12 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: GA Power, Address: Atlanta, GA, Project Name: Plant Hammond Pooled Upgradient, Requested Due Date/TIME: 10 Day

Section B Required Project Information: Report to: SCS Contacts, Copy to: Geosyntec Contacts, Project Name: Plant Hammond Pooled Upgradient, Project Number: 10839

Section C Invoice Information: Company Name: Southern Co., Address: Reference: Bonnie Vang, Pace Project Manager: Pace Profile # 10839, REGULATORY AGENCY: NPDES, UST, RCRA, OTHER

Main data table with columns: ITEM #, Section D Required Client Information (SAMPLE ID, VOID Matrix Codes), MATRIX CODE, SAMPLE TYPE, DATE, TIME, SAMPLE TEMP AT COLLECTION, # OF CONTAINERS, Preservatives, Analysis Test, Requested Analysis Filtered (Y/N), Residual Chlorine (Y/N), and SAMPLE CONDITIONS.

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days

March 23, 2023

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: Hammond AP-1 - RADS
Pace Project No.: 92649924

Dear Joju Abraham:

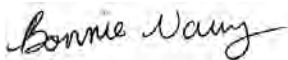
Enclosed are the analytical results for sample(s) received by the laboratory between January 30, 2023 and February 03, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Noelia Gangi, Georgia Power
Ben Hodges, Georgia Power-CCR
Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Laura Midkiff, Georgia Power
Michael Smilley, Georgia Power
Tina Sullivan, ERM
Anthony Szwast, Geosyntec



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: Hammond AP-1 - RADS
Pace Project No.: 92649924

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: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------|--------|----------------|----------------|
| 92649924001 | HAM-HGWC-9 | Water | 01/26/23 15:24 | 01/30/23 14:38 |
| 92649924002 | HAM-HGWC-11 | Water | 01/26/23 14:27 | 01/30/23 14:38 |
| 92649924003 | HAM-HGWC-12 | Water | 01/26/23 12:25 | 01/30/23 14:38 |
| 92649924004 | HAM-HGWC-13 | Water | 01/26/23 13:30 | 01/30/23 14:38 |
| 92649924005 | HAM-MW-5 | Water | 01/26/23 11:14 | 01/30/23 14:38 |
| 92649924006 | HAM-MW-6 | Water | 01/26/23 12:40 | 01/30/23 14:38 |
| 92649924007 | HAM-MW-7 | Water | 01/26/23 14:04 | 01/30/23 14:38 |
| 92649924008 | HAM-MW-19 | Water | 01/26/23 16:05 | 01/30/23 14:38 |
| 92649924009 | HAM-MW-20 | Water | 01/26/23 09:49 | 01/30/23 14:38 |
| 92649924010 | HAM-MW-24D | Water | 01/26/23 11:31 | 01/30/23 14:38 |
| 92649924011 | HAM-MW-25D | Water | 01/26/23 10:14 | 01/30/23 14:38 |
| 92649924012 | HAM-MW-26D | Water | 01/26/23 16:32 | 01/30/23 14:38 |
| 92649924013 | HAM-MW-28D | Water | 01/26/23 17:33 | 01/30/23 14:38 |
| 92649924014 | HAM-MW-29 | Water | 01/26/23 15:19 | 01/30/23 14:38 |
| 92649924015 | HAM-AP1-FD-01 | Water | 01/26/23 14:48 | 01/30/23 14:38 |
| 92649924016 | HAM-HGWC-7 | Water | 01/27/23 13:15 | 01/30/23 14:38 |
| 92649924017 | HAM-HGWC-10 | Water | 01/27/23 15:01 | 01/30/23 14:38 |
| 92649924018 | HAM-MW-27D | Water | 01/27/23 17:35 | 01/30/23 14:38 |
| 92649924019 | HAM-HGWC-8 | Water | 02/01/23 10:02 | 02/03/23 12:50 |
| 92649924020 | HAM-AP1-EB-01 | Water | 02/01/23 14:50 | 02/03/23 12:50 |
| 92649924021 | HAM-AP1-FB-01 | Water | 02/01/23 14:40 | 02/03/23 12:50 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-------------|--------------------------|----------|-------------------|------------|
| 92649924001 | HAM-HGWC-9 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92649924002 | HAM-HGWC-11 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92649924003 | HAM-HGWC-12 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92649924004 | HAM-HGWC-13 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92649924005 | HAM-MW-5 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92649924006 | HAM-MW-6 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92649924007 | HAM-MW-7 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92649924008 | HAM-MW-19 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92649924009 | HAM-MW-20 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92649924010 | HAM-MW-24D | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92649924011 | HAM-MW-25D | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92649924012 | HAM-MW-26D | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92649924013 | HAM-MW-28D | EPA 9315 | RMS | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 - RADS
Pace Project No.: 92649924

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|---------------|--------------------------|----------|-------------------|------------|
| 92649924014 | HAM-MW-29 | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | ZPC | 1 | PASI-PA |
| 92649924015 | HAM-AP1-FD-01 | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92649924016 | HAM-HGWC-7 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 92649924017 | HAM-HGWC-10 | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | ZPC | 1 | PASI-PA |
| 92649924018 | HAM-MW-27D | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92649924019 | HAM-HGWC-8 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| 92649924020 | HAM-AP1-EB-01 | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| 92649924021 | HAM-AP1-FB-01 | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------|--------------------------------|---|-------|--------------|----------------|------------|
| 92649924001 | HAM-HGWC-9 | | | | | |
| EPA 9315 | Radium-226 | 0.0570 ± 0.0782 (0.164) C:93% T:NA | pCi/L | | 02/16/23 10:17 | |
| EPA 9320 | Radium-228 | 0.459 ± 0.279 (0.500) C:82% T:86% | pCi/L | | 02/10/23 12:01 | |
| Total Radium Calculation | Total Radium | 0.516 ± 0.357 (0.664) | pCi/L | | 03/14/23 14:23 | |
| 92649924002 | HAM-HGWC-11 | | | | | |
| EPA 9315 | Radium-226 | 0.103 ± 0.0962 (0.173) C:93% T:NA | pCi/L | | 02/16/23 09:05 | |
| EPA 9320 | Radium-228 | 0.338 ± 0.312 (0.634) C:82% T:85% | pCi/L | | 02/10/23 12:01 | |
| Total Radium Calculation | Total Radium | 0.441 ± 0.408 (0.807) | pCi/L | | 03/14/23 14:23 | |
| 92649924003 | HAM-HGWC-12 | | | | | |
| EPA 9315 | Radium-226 | 0.280 ± 0.139 (0.173) C:98% T:NA | pCi/L | | 02/16/23 09:05 | |
| EPA 9320 | Radium-228 | 0.597 ± 0.308 (0.525) C:81% T:89% | pCi/L | | 02/10/23 12:01 | |
| Total Radium Calculation | Total Radium | 0.877 ± 0.447 (0.698) | pCi/L | | 03/14/23 14:23 | |
| 92649924004 | HAM-HGWC-13 | | | | | |
| EPA 9315 | Radium-226 | 0.163 ± 0.108 (0.165) C:99% T:NA | pCi/L | | 02/16/23 09:05 | |
| EPA 9320 | Radium-228 | 0.556 ± 0.306 (0.531) C:80% T:87% | pCi/L | | 02/10/23 12:01 | |
| Total Radium Calculation | Total Radium | 0.719 ± 0.414 (0.696) | pCi/L | | 03/14/23 14:23 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------|--------------------------------|---|-------|--------------|----------------|------------|
| 92649924005 | HAM-MW-5 | | | | | |
| EPA 9315 | Radium-226 | 0.0644 ± 0.0894 (0.189) C:90% T:NA | pCi/L | | 02/16/23 09:05 | |
| EPA 9320 | Radium-228 | 0.845 ± 0.402 (0.676) C:79% T:86% | pCi/L | | 02/10/23 14:34 | |
| Total Radium Calculation | Total Radium | 0.909 ± 0.491 (0.865) | pCi/L | | 03/14/23 14:23 | |
| 92649924006 | HAM-MW-6 | | | | | |
| EPA 9315 | Radium-226 | 0.0685 ± 0.0832 (0.167) C:93% T:NA | pCi/L | | 02/16/23 12:08 | |
| EPA 9320 | Radium-228 | 0.424 ± 0.339 (0.675) C:87% T:86% | pCi/L | | 02/10/23 14:34 | |
| Total Radium Calculation | Total Radium | 0.493 ± 0.422 (0.842) | pCi/L | | 03/14/23 14:23 | |
| 92649924007 | HAM-MW-7 | | | | | |
| EPA 9315 | Radium-226 | 0.131 ± 0.108 (0.193) C:93% T:NA | pCi/L | | 02/16/23 12:08 | |
| EPA 9320 | Radium-228 | 0.187 ± 0.289 (0.624) C:83% T:87% | pCi/L | | 02/10/23 14:34 | |
| Total Radium Calculation | Total Radium | 0.318 ± 0.397 (0.817) | pCi/L | | 03/14/23 14:23 | |
| 92649924008 | HAM-MW-19 | | | | | |
| EPA 9315 | Radium-226 | 0.0959 ± 0.0908 (0.164) C:91% T:NA | pCi/L | | 02/16/23 12:08 | |
| EPA 9320 | Radium-228 | 0.237 ± 0.279 (0.584) C:85% T:82% | pCi/L | | 02/10/23 14:34 | |
| Total Radium Calculation | Total Radium | 0.333 ± 0.370 (0.748) | pCi/L | | 03/14/23 14:23 | |

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SUMMARY OF DETECTION

Project: Hammond AP-1 - RADS
Pace Project No.: 92649924

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------|--------------------------------|--|-------|--------------|----------------|------------|
| 92649924009 | HAM-MW-20 | | | | | |
| EPA 9315 | Radium-226 | 0.186 ± 0.118 (0.172) C:93% T:NA | pCi/L | | 02/16/23 12:08 | |
| EPA 9320 | Radium-228 | 0.375 ± 0.350 (0.714) C:82% T:88% | pCi/L | | 02/10/23 15:08 | |
| Total Radium Calculation | Total Radium | 0.561 ± 0.468 (0.886) | pCi/L | | 03/14/23 14:23 | |
| 92649924010 | HAM-MW-24D | | | | | |
| EPA 9315 | Radium-226 | -0.00601 ± 0.0547 (0.167) C:90% T:NA | pCi/L | | 02/16/23 12:08 | |
| EPA 9320 | Radium-228 | 0.0906 ± 0.273 (0.616) C:82% T:88% | pCi/L | | 02/10/23 15:08 | |
| Total Radium Calculation | Total Radium | 0.0906 ± 0.328 (0.783) | pCi/L | | 03/14/23 14:23 | |
| 92649924011 | HAM-MW-25D | | | | | |
| EPA 9315 | Radium-226 | 0.713 ± 0.220 (0.158) C:95% T:NA | pCi/L | | 02/16/23 12:08 | |
| EPA 9320 | Radium-228 | 0.391 ± 0.304 (0.594) C:81% T:90% | pCi/L | | 02/10/23 15:08 | |
| Total Radium Calculation | Total Radium | 1.10 ± 0.524 (0.752) | pCi/L | | 03/14/23 14:23 | |
| 92649924012 | HAM-MW-26D | | | | | |
| EPA 9315 | Radium-226 | 0.0343 ± 0.0947 (0.229) C:91% T:NA | pCi/L | | 02/16/23 12:08 | |
| EPA 9320 | Radium-228 | 0.352 ± 0.330 (0.670) C:77% T:88% | pCi/L | | 02/10/23 15:08 | |
| Total Radium Calculation | Total Radium | 0.386 ± 0.425 (0.899) | pCi/L | | 03/14/23 14:23 | |

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SUMMARY OF DETECTION

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------|--------------------------------|---|-------|--------------|----------------|------------|
| 92649924013 | HAM-MW-28D | | | | | |
| EPA 9315 | Radium-226 | 0.421 ± 0.167 (0.182) C:107% T:NA | pCi/L | | 02/14/23 19:09 | |
| EPA 9320 | Radium-228 | 0.400 ± 0.312 (0.608) C:79% T:90% | pCi/L | | 02/09/23 13:53 | |
| Total Radium Calculation | Total Radium | 0.821 ± 0.479 (0.790) | pCi/L | | 03/14/23 14:23 | |
| 92649924014 | HAM-MW-29 | | | | | |
| EPA 9315 | Radium-226 | 0.0895 ± 0.0928 (0.175) C:92% T:NA | pCi/L | | 02/14/23 19:09 | |
| EPA 9320 | Radium-228 | 0.703 ± 0.387 (0.690) C:80% T:85% | pCi/L | | 02/09/23 13:53 | |
| Total Radium Calculation | Total Radium | 0.793 ± 0.480 (0.865) | pCi/L | | 03/14/23 14:23 | |
| 92649924015 | HAM-AP1-FD-01 | | | | | |
| EPA 9315 | Radium-226 | 0.144 ± 0.109 (0.179) C:95% T:NA | pCi/L | | 02/14/23 19:09 | |
| EPA 9320 | Radium-228 | 0.414 ± 0.396 (0.811) C:76% T:83% | pCi/L | | 02/09/23 13:53 | |
| Total Radium Calculation | Total Radium | 0.558 ± 0.505 (0.990) | pCi/L | | 03/14/23 14:23 | |
| 92649924016 | HAM-HGWC-7 | | | | | |
| EPA 9315 | Radium-226 | 0.229 ± 0.135 (0.186) C:85% T:NA | pCi/L | | 02/14/23 19:09 | |
| EPA 9320 | Radium-228 | 0.221 ± 0.294 (0.626) C:79% T:91% | pCi/L | | 02/09/23 13:53 | |
| Total Radium Calculation | Total Radium | 0.450 ± 0.429 (0.812) | pCi/L | | 03/14/23 14:23 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------|--------------------------------|---|-------|--------------|----------------|------------|
| 92649924017 | HAM-HGWC-10 | | | | | |
| EPA 9315 | Radium-226 | 0.148 ± 0.107 (0.167) | pCi/L | | 02/14/23 19:09 | |
| EPA 9320 | Radium-228 | C:95% T:NA 1.05 ± 0.404 (0.587) | pCi/L | | 02/13/23 11:52 | |
| Total Radium Calculation | Total Radium | C:86% T:81% 1.20 ± 0.511 (0.754) | pCi/L | | 03/14/23 14:23 | |
| 92649924018 | HAM-MW-27D | | | | | |
| EPA 9315 | Radium-226 | 0.372 ± 0.172 (0.233) | pCi/L | | 02/14/23 19:09 | |
| EPA 9320 | Radium-228 | C:98% T:NA 0.728 ± 0.350 (0.569) | pCi/L | | 02/13/23 11:52 | |
| Total Radium Calculation | Total Radium | C:83% T:83% 1.10 ± 0.522 (0.802) | pCi/L | | 03/14/23 14:23 | |
| 92649924019 | HAM-HGWC-8 | | | | | |
| EPA 9315 | Radium-226 | 0.215 ± 0.127 (0.177) | pCi/L | | 02/27/23 19:20 | |
| EPA 9320 | Radium-228 | C:92% T:NA 0.0256 ± 0.352 (0.808) | pCi/L | | 02/21/23 15:12 | |
| Total Radium Calculation | Total Radium | C:90% T:84% 0.241 ± 0.479 (0.985) | pCi/L | | 02/28/23 15:11 | |
| 92649924020 | HAM-AP1-EB-01 | | | | | |
| EPA 9315 | Radium-226 | 0.0947 ± 0.117 (0.247) | pCi/L | | 02/27/23 19:20 | |
| EPA 9320 | Radium-228 | C:92% T:NA 0.572 ± 0.386 (0.746) | pCi/L | | 02/21/23 15:12 | |
| Total Radium Calculation | Total Radium | C:82% T:93% 0.667 ± 0.503 (0.993) | pCi/L | | 02/28/23 15:11 | |

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SUMMARY OF DETECTION

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------|--------------------------------|--|-------|--------------|----------------|------------|
| 92649924021 | HAM-AP1-FB-01 | | | | | |
| EPA 9315 | Radium-226 | -0.000718 ± 0.0588 (0.173) C:90% T:NA | pCi/L | | 02/27/23 18:33 | |
| EPA 9320 | Radium-228 | 0.250 ± 0.331 (0.708) C:81% T:94% | pCi/L | | 02/21/23 15:12 | |
| Total Radium Calculation | Total Radium | 0.250 ± 0.390 (0.881) | pCi/L | | 02/28/23 15:11 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|---|-------|----------------|------------|------|
| Sample: HAM-HGWC-9 Lab ID: 92649924001 Collected: 01/26/23 15:24 Received: 01/30/23 14:38 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0570 ± 0.0782 (0.164) C:93% T:NA | pCi/L | 02/16/23 10:17 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.459 ± 0.279 (0.500) C:82% T:86% | pCi/L | 02/10/23 12:01 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.516 ± 0.357 (0.664) | pCi/L | 03/14/23 14:23 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|---------------------------------------|--|-------|----------------|------------|------|
| Sample: HAM-HGWC-11 Lab ID: 92649924002 Collected: 01/26/23 14:27 Received: 01/30/23 14:38 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.103 ± 0.0962 (0.173) C:93% T:NA | pCi/L | 02/16/23 09:05 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.338 ± 0.312 (0.634) C:82% T:85% | pCi/L | 02/10/23 12:01 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.441 ± 0.408 (0.807) | pCi/L | 03/14/23 14:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|---------------------------------------|--|-------|----------------|------------|------|
| Sample: HAM-HGWC-12 Lab ID: 92649924003 Collected: 01/26/23 12:25 Received: 01/30/23 14:38 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.280 ± 0.139 (0.173) C:98% T:NA | pCi/L | 02/16/23 09:05 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.597 ± 0.308 (0.525) C:81% T:89% | pCi/L | 02/10/23 12:01 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.877 ± 0.447 (0.698) | pCi/L | 03/14/23 14:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-HGWC-13 **Lab ID: 92649924004** Collected: 01/26/23 13:30 Received: 01/30/23 14:38 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.163 ± 0.108 (0.165) C:99% T:NA | pCi/L | 02/16/23 09:05 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.556 ± 0.306 (0.531) C:80% T:87% | pCi/L | 02/10/23 12:01 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.719 ± 0.414 (0.696) | pCi/L | 03/14/23 14:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---------------------------------------|---|-------|----------------|------------|------|
| Sample: HAM-MW-5 Lab ID: 92649924005 Collected: 01/26/23 11:14 Received: 01/30/23 14:38 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0644 ± 0.0894 (0.189) C:90% T:NA | pCi/L | 02/16/23 09:05 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.845 ± 0.402 (0.676) C:79% T:86% | pCi/L | 02/10/23 14:34 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.909 ± 0.491 (0.865) | pCi/L | 03/14/23 14:23 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|---|-------|----------------|------------|------|
| Sample: HAM-MW-6 Lab ID: 92649924006 Collected: 01/26/23 12:40 Received: 01/30/23 14:38 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0685 ± 0.0832 (0.167) C:93% T:NA | pCi/L | 02/16/23 12:08 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.424 ± 0.339 (0.675) C:87% T:86% | pCi/L | 02/10/23 14:34 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.493 ± 0.422 (0.842) | pCi/L | 03/14/23 14:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|--|-------|----------------|------------|------|
| Sample: HAM-MW-7 Lab ID: 92649924007 Collected: 01/26/23 14:04 Received: 01/30/23 14:38 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.131 ± 0.108 (0.193) C:93% T:NA | pCi/L | 02/16/23 12:08 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.187 ± 0.289 (0.624) C:83% T:87% | pCi/L | 02/10/23 14:34 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.318 ± 0.397 (0.817) | pCi/L | 03/14/23 14:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|--------------------------|---|-------|----------------|------------|------|
| Sample: HAM-MW-19 Lab ID: 92649924008 Collected: 01/26/23 16:05 Received: 01/30/23 14:38 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0959 ± 0.0908 (0.164) C:91% T:NA | pCi/L | 02/16/23 12:08 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.237 ± 0.279 (0.584) C:85% T:82% | pCi/L | 02/10/23 14:34 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.333 ± 0.370 (0.748) | pCi/L | 03/14/23 14:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|--------------------------|--|-------|----------------|------------|------|
| Sample: HAM-MW-20 Lab ID: 92649924009 Collected: 01/26/23 09:49 Received: 01/30/23 14:38 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.186 ± 0.118 (0.172) C:93% T:NA | pCi/L | 02/16/23 12:08 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.375 ± 0.350 (0.714) C:82% T:88% | pCi/L | 02/10/23 15:08 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.561 ± 0.468 (0.886) | pCi/L | 03/14/23 14:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|---|-------|----------------|------------|------|
| Sample: HAM-MW-24D Lab ID: 92649924010 Collected: 01/26/23 11:31 Received: 01/30/23 14:38 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | -0.00601 ± 0.0547 (0.167) C:90% T:NA | pCi/L | 02/16/23 12:08 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.0906 ± 0.273 (0.616) C:82% T:88% | pCi/L | 02/10/23 15:08 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.0906 ± 0.328 (0.783) | pCi/L | 03/14/23 14:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---------------------------------------|--|-------|----------------|------------|------|
| Sample: HAM-MW-25D Lab ID: 92649924011 Collected: 01/26/23 10:14 Received: 01/30/23 14:38 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.713 ± 0.220 (0.158) C:95% T:NA | pCi/L | 02/16/23 12:08 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.391 ± 0.304 (0.594) C:81% T:90% | pCi/L | 02/10/23 15:08 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 1.10 ± 0.524 (0.752) | pCi/L | 03/14/23 14:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS
Pace Project No.: 92649924

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---------------------------------------|---|-------|----------------|------------|------|
| Sample: HAM-MW-26D Lab ID: 92649924012 Collected: 01/26/23 16:32 Received: 01/30/23 14:38 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0343 ± 0.0947 (0.229) C:91% T:NA | pCi/L | 02/16/23 12:08 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.352 ± 0.330 (0.670) C:77% T:88% | pCi/L | 02/10/23 15:08 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.386 ± 0.425 (0.899) | pCi/L | 03/14/23 14:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---------------------------------------|--|-------|----------------|------------|------|
| Sample: HAM-MW-28D Lab ID: 92649924013 Collected: 01/26/23 17:33 Received: 01/30/23 14:38 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.421 ± 0.167 (0.182) C:107% T:NA | pCi/L | 02/14/23 19:09 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.400 ± 0.312 (0.608) C:79% T:90% | pCi/L | 02/09/23 13:53 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.821 ± 0.479 (0.790) | pCi/L | 03/14/23 14:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|--------------------------|---|-------|----------------|------------|------|
| Sample: HAM-MW-29 Lab ID: 92649924014 Collected: 01/26/23 15:19 Received: 01/30/23 14:38 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0895 ± 0.0928 (0.175) C:92% T:NA | pCi/L | 02/14/23 19:09 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.703 ± 0.387 (0.690) C:80% T:85% | pCi/L | 02/09/23 13:53 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.793 ± 0.480 (0.865) | pCi/L | 03/14/23 14:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.144 ± 0.109 (0.179) C:95% T:NA | pCi/L | 02/14/23 19:09 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.414 ± 0.396 (0.811) C:76% T:83% | pCi/L | 02/09/23 13:53 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.558 ± 0.505 (0.990) | pCi/L | 03/14/23 14:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|--|-------|----------------|------------|------|
| Sample: HAM-HGWC-7 Lab ID: 92649924016 Collected: 01/27/23 13:15 Received: 01/30/23 14:38 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.229 ± 0.135 (0.186) C:85% T:NA | pCi/L | 02/14/23 19:09 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.221 ± 0.294 (0.626) C:79% T:91% | pCi/L | 02/09/23 13:53 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.450 ± 0.429 (0.812) | pCi/L | 03/14/23 14:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|---------------------------------------|---|-------|----------------|------------|------|
| Sample: HAM-HGWC-10 Lab ID: 92649924017 Collected: 01/27/23 15:01 Received: 01/30/23 14:38 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.148 ± 0.107 (0.167) C:95% T:NA | pCi/L | 02/14/23 19:09 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 1.05 ± 0.404 (0.587) C:86% T:81% | pCi/L | 02/13/23 11:52 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 1.20 ± 0.511 (0.754) | pCi/L | 03/14/23 14:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|--|-------|----------------|------------|------|
| Sample: HAM-MW-27D Lab ID: 92649924018 Collected: 01/27/23 17:35 Received: 01/30/23 14:38 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.372 ± 0.172 (0.233) C:98% T:NA | pCi/L | 02/14/23 19:09 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.728 ± 0.350 (0.569) C:83% T:83% | pCi/L | 02/13/23 11:52 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.10 ± 0.522 (0.802) | pCi/L | 03/14/23 14:23 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---------------------------------------|---|-------|----------------|------------|------|
| Sample: HAM-HGWC-8 Lab ID: 92649924019 Collected: 02/01/23 10:02 Received: 02/03/23 12:50 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.215 ± 0.127 (0.177) C:92% T:NA | pCi/L | 02/27/23 19:20 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.0256 ± 0.352 (0.808) C:90% T:84% | pCi/L | 02/21/23 15:12 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.241 ± 0.479 (0.985) | pCi/L | 02/28/23 15:11 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|--------------------------|--|-------|----------------|------------|------|
| Sample: HAM-AP1-EB-01 Lab ID: 92649924020 Collected: 02/01/23 14:50 Received: 02/03/23 12:50 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0947 ± 0.117 (0.247) C:92% T:NA | pCi/L | 02/27/23 19:20 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.572 ± 0.386 (0.746) C:82% T:93% | pCi/L | 02/21/23 15:12 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.667 ± 0.503 (0.993) | pCi/L | 02/28/23 15:11 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|---------------------------------------|--|-------|----------------|------------|------|
| Sample: HAM-AP1-FB-01 Lab ID: 92649924021 Collected: 02/01/23 14:40 Received: 02/03/23 12:50 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | -0.000718 ± 0.0588 (0.173) C:90% T:NA | pCi/L | 02/27/23 18:33 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.250 ± 0.331 (0.708) C:81% T:94% | pCi/L | 02/21/23 15:12 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.250 ± 0.390 (0.881) | pCi/L | 02/28/23 15:11 | 7440-14-4 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| | | | |
|------------------|----------|-----------------------|---------------------------------------|
| QC Batch: | 565964 | Analysis Method: | EPA 9315 |
| QC Batch Method: | EPA 9315 | Analysis Description: | 9315 Total Radium |
| | | Laboratory: | Pace Analytical Services - Greensburg |

Associated Lab Samples: 92649924019, 92649924020, 92649924021

METHOD BLANK: 2748587 Matrix: Water

Associated Lab Samples: 92649924019, 92649924020, 92649924021

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|------------------------------------|-------|----------------|------------|
| Radium-226 | 0.0712 ± 0.0809 (0.156) C:99% T:NA | pCi/L | 02/27/23 19:32 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| | | | |
|------------------|----------|-----------------------|---------------------------------------|
| QC Batch: | 565965 | Analysis Method: | EPA 9320 |
| QC Batch Method: | EPA 9320 | Analysis Description: | 9320 Radium 228 |
| | | Laboratory: | Pace Analytical Services - Greensburg |

Associated Lab Samples: 92649924019, 92649924020, 92649924021

METHOD BLANK: 2748588 Matrix: Water

Associated Lab Samples: 92649924019, 92649924020, 92649924021

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|------------------------------------|-------|----------------|------------|
| Radium-228 | 0.343 ± 0.275 (0.547) C:87% T:103% | pCi/L | 02/21/23 11:58 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

QC Batch: 564276

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92649924013, 92649924014, 92649924015, 92649924016, 92649924017, 92649924018

METHOD BLANK: 2740044

Matrix: Water

Associated Lab Samples: 92649924013, 92649924014, 92649924015, 92649924016, 92649924017, 92649924018

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.422 ± 0.346 (0.687) C:78% T:87% | pCi/L | 02/09/23 13:53 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

QC Batch: 564275

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92649924013, 92649924014, 92649924015, 92649924016, 92649924017, 92649924018

METHOD BLANK: 2740043

Matrix: Water

Associated Lab Samples: 92649924013, 92649924014, 92649924015, 92649924016, 92649924017, 92649924018

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|------------------------------------|-------|----------------|------------|
| Radium-226 | 0.0752 ± 0.0913 (0.184) C:91% T:NA | pCi/L | 02/14/23 19:09 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-1 - RADS
Pace Project No.: 92649924

| | | | |
|------------------|----------|-----------------------|---------------------------------------|
| QC Batch: | 564182 | Analysis Method: | EPA 9320 |
| QC Batch Method: | EPA 9320 | Analysis Description: | 9320 Radium 228 |
| | | Laboratory: | Pace Analytical Services - Greensburg |

Associated Lab Samples: 92649924001, 92649924002, 92649924003, 92649924004, 92649924005, 92649924006, 92649924007, 92649924008, 92649924009, 92649924010, 92649924011, 92649924012

| | | | |
|---------------|---------|---------|-------|
| METHOD BLANK: | 2739757 | Matrix: | Water |
|---------------|---------|---------|-------|

Associated Lab Samples: 92649924001, 92649924002, 92649924003, 92649924004, 92649924005, 92649924006, 92649924007, 92649924008, 92649924009, 92649924010, 92649924011, 92649924012

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.348 ± 0.296 (0.591) C:84% T:90% | pCi/L | 02/10/23 11:28 | |

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

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QUALIFIERS

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 - RADS
Pace Project No.: 92649924

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|--------------------------|----------|-------------------|------------------|
| 92649924001 | HAM-HGWC-9 | EPA 9315 | 564181 | | |
| 92649924002 | HAM-HGWC-11 | EPA 9315 | 564181 | | |
| 92649924003 | HAM-HGWC-12 | EPA 9315 | 564181 | | |
| 92649924004 | HAM-HGWC-13 | EPA 9315 | 564181 | | |
| 92649924005 | HAM-MW-5 | EPA 9315 | 564181 | | |
| 92649924006 | HAM-MW-6 | EPA 9315 | 564181 | | |
| 92649924007 | HAM-MW-7 | EPA 9315 | 564181 | | |
| 92649924008 | HAM-MW-19 | EPA 9315 | 564181 | | |
| 92649924009 | HAM-MW-20 | EPA 9315 | 564181 | | |
| 92649924010 | HAM-MW-24D | EPA 9315 | 564181 | | |
| 92649924011 | HAM-MW-25D | EPA 9315 | 564181 | | |
| 92649924012 | HAM-MW-26D | EPA 9315 | 564181 | | |
| 92649924013 | HAM-MW-28D | EPA 9315 | 564275 | | |
| 92649924014 | HAM-MW-29 | EPA 9315 | 564275 | | |
| 92649924015 | HAM-AP1-FD-01 | EPA 9315 | 564275 | | |
| 92649924016 | HAM-HGWC-7 | EPA 9315 | 564275 | | |
| 92649924017 | HAM-HGWC-10 | EPA 9315 | 564275 | | |
| 92649924018 | HAM-MW-27D | EPA 9315 | 564275 | | |
| 92649924019 | HAM-HGWC-8 | EPA 9315 | 565964 | | |
| 92649924020 | HAM-AP1-EB-01 | EPA 9315 | 565964 | | |
| 92649924021 | HAM-AP1-FB-01 | EPA 9315 | 565964 | | |
| 92649924001 | HAM-HGWC-9 | EPA 9320 | 564182 | | |
| 92649924002 | HAM-HGWC-11 | EPA 9320 | 564182 | | |
| 92649924003 | HAM-HGWC-12 | EPA 9320 | 564182 | | |
| 92649924004 | HAM-HGWC-13 | EPA 9320 | 564182 | | |
| 92649924005 | HAM-MW-5 | EPA 9320 | 564182 | | |
| 92649924006 | HAM-MW-6 | EPA 9320 | 564182 | | |
| 92649924007 | HAM-MW-7 | EPA 9320 | 564182 | | |
| 92649924008 | HAM-MW-19 | EPA 9320 | 564182 | | |
| 92649924009 | HAM-MW-20 | EPA 9320 | 564182 | | |
| 92649924010 | HAM-MW-24D | EPA 9320 | 564182 | | |
| 92649924011 | HAM-MW-25D | EPA 9320 | 564182 | | |
| 92649924012 | HAM-MW-26D | EPA 9320 | 564182 | | |
| 92649924013 | HAM-MW-28D | EPA 9320 | 564276 | | |
| 92649924014 | HAM-MW-29 | EPA 9320 | 564276 | | |
| 92649924015 | HAM-AP1-FD-01 | EPA 9320 | 564276 | | |
| 92649924016 | HAM-HGWC-7 | EPA 9320 | 564276 | | |
| 92649924017 | HAM-HGWC-10 | EPA 9320 | 564276 | | |
| 92649924018 | HAM-MW-27D | EPA 9320 | 564276 | | |
| 92649924019 | HAM-HGWC-8 | EPA 9320 | 565965 | | |
| 92649924020 | HAM-AP1-EB-01 | EPA 9320 | 565965 | | |
| 92649924021 | HAM-AP1-FB-01 | EPA 9320 | 565965 | | |
| 92649924001 | HAM-HGWC-9 | Total Radium Calculation | 573736 | | |
| 92649924002 | HAM-HGWC-11 | Total Radium Calculation | 573736 | | |
| 92649924003 | HAM-HGWC-12 | Total Radium Calculation | 573736 | | |
| 92649924004 | HAM-HGWC-13 | Total Radium Calculation | 573736 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|--------------------------|----------|-------------------|------------------|
| 92649924005 | HAM-MW-5 | Total Radium Calculation | 573736 | | |
| 92649924006 | HAM-MW-6 | Total Radium Calculation | 573736 | | |
| 92649924007 | HAM-MW-7 | Total Radium Calculation | 573736 | | |
| 92649924008 | HAM-MW-19 | Total Radium Calculation | 573736 | | |
| 92649924009 | HAM-MW-20 | Total Radium Calculation | 573736 | | |
| 92649924010 | HAM-MW-24D | Total Radium Calculation | 573736 | | |
| 92649924011 | HAM-MW-25D | Total Radium Calculation | 573736 | | |
| 92649924012 | HAM-MW-26D | Total Radium Calculation | 573736 | | |
| 92649924013 | HAM-MW-28D | Total Radium Calculation | 573736 | | |
| 92649924014 | HAM-MW-29 | Total Radium Calculation | 573736 | | |
| 92649924015 | HAM-AP1-FD-01 | Total Radium Calculation | 573736 | | |
| 92649924016 | HAM-HGWC-7 | Total Radium Calculation | 573736 | | |
| 92649924017 | HAM-HGWC-10 | Total Radium Calculation | 573736 | | |
| 92649924018 | HAM-MW-27D | Total Radium Calculation | 573736 | | |
| 92649924019 | HAM-HGWC-8 | Total Radium Calculation | 570492 | | |
| 92649924020 | HAM-AP1-EB-01 | Total Radium Calculation | 570492 | | |
| 92649924021 | HAM-AP1-FB-01 | Total Radium Calculation | 570492 | | |

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA power

Project #:

WO#: 92649924



92649924

Date/Initials Person Examining Contents: MT

Courier: Fed Ex UPS USPS Client Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 4.1 Correction Factor: Add/Subtract (°C) +0

Cooler Temp Corrected (°C): 4.1

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | | | Comments/Discrepancy: |
|---|---|--|---|-----------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | |
| Containers Intact? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: WG | | | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta

Sample Condition Upon Receipt

Client Name: GA power

Project: WO#: 92649924

PM: BV Due Date: 02/14/23 CLIENT: GA-GA Power

Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 4.1 Correction Factor: Add/Subtract (°C) ±0

Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.1

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | Comments/Discrepancy: |
|---|--|-----------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: W G | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92649924

PM: BV

Due Date: 02/14/23

CLIENT: GA-GA Power

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic 2N Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFW-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG9A-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2SO3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BPIN | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | V5GU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|-----------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|------|---|---|--------------------------------------|--|
| 1 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 3 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 4 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 6 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 7 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 8 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 9 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 11 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 12 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # **WO# : 92649924**

PM: BV

Due Date: 02/14/23

CLIENT: GA-GA Power

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic Zn Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFLU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | V5GU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|--|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92649924

Project #

PM: BV

Due Date: 02/14/23

CLIENT: GA-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

| Item # | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | V5GU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|--------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|---|
| 1 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
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| 6 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
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| 9 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
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| 12 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:
Company: GA Power
Address: Atlanta, GA
Project Name: SCS Contacts
Requested Date/Time: 10 Day

Section B
Required Project Information:
Report for: SCS Contacts
Copy To: Geosynthetic Contacts
Project Name: Hammond AP-1
Project Number: 10839

Section C
Agency Information:
Agency: Southern Co.
Company Name:
Address:
City/State:
Phone:
Fax:
Project Manager:
Price Project:
Price Product:
Price Product # 10839

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER
Bios Location: GA
STATE: GA

| ITEM # | Section D Required Client Information | Valid Matrix Codes MATERIALS: OPENING WATER, WASTE WATER, PRODUCT, SOLIDIFIED, OTHER | SCS CODE WV, WY, P, BL, CA, MP, OT, T3 | MATRIX CODE (See 10 to 25 on page 2) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | Analysis Test | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|--------|--|---|---|--------------------------------------|-----------------------------|-----------|-----------|---------------------------|-----------------|---------------|---------------|-----------------------------------|-------------------------|------------|-----------------------|-----------------------------|----------------------|
| | | | | | | COMPONENT | COMPONENT | | | | | | | | | | |
| 1 | HAM-MW-28D | | | WV G | 1/28/2023 | 1733 | | | 2 | 3 | | | | | | | |
| 2 | HAM-MW-28 | | | WV G | 1/28/2023 | 1519 | | | 2 | 3 | | | | | | | |
| 3 | HAM-AP-1-FD-01 | | | WV G | 1/28/2023 | 1448 | | | 2 | 3 | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
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ADDITIONAL COMMENTS
RELINQUISHED BY / AFFILIATION: Kyleen Williams / Pace
DATE: 1/28/2023
ACCEPTED BY / AFFILIATION: Michelle Williams / Pace
DATE: 1/28/2023
DATE SIGNED: 1/28/2023
SIGNATURE OF SAMPLER: Kyleen Williams
DATE SIGNED: 1/28/2023
SIGNATURE OF ANALYST: Michelle Williams
DATE SIGNED: 1/28/2023

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to the charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020Rev.07, 15-Feb-2007

Page: 2 of 2

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Collected
 1/27/23

Section A Required Client Information: Company: GA Power Address: Atlanta, GA

Section B Required Project Information: Report To: SCS Contacts Copy To: Geosynthetic Contacts

Section C Invoice Information: Invoice Number: Southern Co. Company Name: Reference: Bonnie Vang

Requested Date: 10 Day

Project Name: Hammond AP-1

Project Number: 10839

Site Location: STATE: GA

REGULATORY AGENCY: NPDES GROUND WATER DRINKING WATER UST RCRA OTHER

Page: 1 of 1

Section D Additional Information: Valid Matrix Codes: **BAIEX** (see valid codes to left)

Matrix Code: **WVG 5** SAMPLE TYPE: **(S=GRAB C=COMP)**

DATE: 1/27/2023 TIME: 15:50

Sample Temp at Collection: 18.5 °C

OF CONTAINERS: 2

Preservatives: H₂SO₄ HNO₃ HCl NaOH Na₂S₂O₃ Methanol Other

Analysis Test: Chloride, Fluoride, Sulfate Full App. III and IV metals RAD 226/223 TDS

Residual Chlorine (Y/N): N

PH: 7.25, 8.89, 7.80

| # | SAMPLE ID (4-2, 048 / 3) Sample IDs MUST BE UNIQUE | MATRIX CODE | SAMPLE TYPE | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | Analysis Test | | | | Residual Chlorine (Y/N) | PH |
|----|--|-------------|-------------|-----------|-------|---------------------------|-----------------|--------------------------------|------------------|-----|------|---|----------|---------------|-----------------------------|-----------------------------|-------------|-------------------------|----|
| | | | | DATE | TIME | | | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₃ | Methanol | Other | Chloride, Fluoride, Sulfate | Full App. III and IV metals | RAD 226/223 | | |
| 1 | HAM-HGWC-7 | WVG 5 | G | 1/27/2023 | 15:15 | 18.5 | 2 | | | | | | | | | | | | |
| 2 | HAM-HGWC-10 | WVG 5 | G | 1/27/2023 | 15:01 | 18.5 | 2 | | | | | | | | | | | | |
| 3 | HAM-MW-27D | WVG 6 | G | 1/27/2023 | 17:35 | 17.5 | 2 | | | | | | | | | | | | |
| 4 | | | | 1/27/2023 | | | | | | | | | | | | | | | |
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| 12 | | | | | | | | | | | | | | | | | | | |

REQUIREMENTS BY AFFILIATION: *Yellow Street / Geosynthetic* DATE: 1/24/2023 TIME: 11:50

ACCEPTED BY / AFFILIATION: *Kevin Williams / Pace* DATE: 1/24/23 TIME: 11:50

Signature of Sampler: *Anthony Searcy* DATE SIGNED: 01/27/2023

Signature of Analytical Consultant: *Anthony Searcy* DATE SIGNED: 01/27/2023

Temp in °C: _____

Received on Ice (Y/N): _____

Custody Sealed Cooler (Y/N): _____

Samples Intact (Y/N): _____

Important Note: By signing this form you are accepting Pace's HET 29 day payment terms and agreeing to the charges of 1.5% per month for any amounts not paid within 30 days.



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92649924

Courier: Fed Ex UPS USPS Client Commercial Pace Other:

PM: BV Due Date: 02/14/23
CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/3/23
LGH

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer:

IR Gun ID: 214

Type of Ice: Wet Blue None

Cooler Temp: 23 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.4

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | | Comments/Discrepancy: |
|---|--|--|-----------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | | 3. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | | 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 5. |
| Correct Containers Used? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 7. |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | 8. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 9. |
| -Includes Date/Time/ID/Analysis Matrix: | W | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | 11. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92649924

PM: BV

Due Date: 02/14/23

CLIENT: GA-GA Power

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG9A-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|--|
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pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document

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

| | |
|---|--|
| Section A Required Client Information: Company: GA Power Address: Atlanta, GA | Section B Required Project Information: Report To: SCS Contacts Copy To: Geosyntec Contacts |
| Section C Invoice Information: Address: Southern Co. Company Name: | Regulatory Agency: <input type="checkbox"/> NRCOS <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> CCR... |

| | |
|---|--|
| Section D Required Client Information: Email To: SCS Contacts Phone: Fax Requested Due Date/TAT: 16 Day | Purchase Order No.: Project Name: Hammond AP-1 Project Number: Pace Guide Reference: Pace Project Manager: Pace Profile #: 10839 |
|---|--|

| ITEM # | Section D Required Client Information | Valid Matrix Codes MATERIALS SOLIDS WASTE WATER PRODUCT SCALE/DIL GAS WATER AIR OTHER Tissue | EDGE | MATRIX CODE (see valid codes to fill) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | PRESERVATIVES | | Analysis Test | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|--------|--|--|------|---------------------------------------|-----------------------------|-----------|------|---------------------------|-----------------|---------------|------|---------------|-----------------------------------|-------------------------|----------------------------|
| | | | | | | DATE | TIME | | | DATE | TIME | | | | |
| 1 | HAM-HGWC-6 | | | WG G | 21/2023 | 1002 | | 16 | 2 | | | X | N | N | 926499 24 |
| 2 | HAM-AP-1-EB-01 | | | WG G | 21/2023 | 1490 | | 16 | 5 | | | X | N | N | pH = 6.80 |
| 3 | HAM-AP-1-FB-01 | | | WG G | 21/2023 | 1440 | | 16 | 5 | | | X | N | N | N/A |
| 4 | | | | | | | | 16 | 2 | | | X | N | N | Last sample |
| 5 | | | | | | | | | | | | | | | |
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| ADDITIONAL COMMENTS | | RELEASED BY / AFFILIATION | | DATE | | TIME | | ACCEPTED BY / AFFILIATION | | DATE | | TIME | |
|----------------------------------|--|---------------------------|--|----------|--|------|--|----------------------------|--|----------|--|------|--|
| Task Code: HAM-COR-ASSINT-202317 | | Thomas Hester / Geosyntec | | 2/3/2023 | | 1230 | | Charles Hester / Geosyntec | | 2/3/2023 | | 1250 | |
| | | Lyon Wilson / Pace | | 2/3/2023 | | 1400 | | Lyon Wilson / Pace | | 2/11/23 | | 1250 | |

| SAMPLER NAME AND SIGNATURE | | PRINT Name of SAMPLER | | SIGNATURE of SAMPLER | | DATE SIGNED | | DATE SIGNED | | INITIALS | |
|----------------------------|--|-----------------------|--|----------------------|--|-------------|--|-------------|--|----------|--|
| Pace Project Manager | | Thomas Hester | | | | 2/3/2023 | | 2/3/2023 | | TH | |
| SAMPLER | | Lyon Wilson | | | | 2/3/2023 | | 2/3/2023 | | LW | |

| | | | |
|------------|-----------------------|-----------------------------|---------------------|
| Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Sample Intact (Y/N) |
| | | | |

March 23, 2023

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Hammond Pooled - RADS
Pace Project No.: 92648448

Dear Joju Abraham:

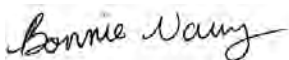
Enclosed are the analytical results for sample(s) received by the laboratory between January 24, 2023 and January 26, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Noelia Gangi, Georgia Power
Ben Hodges, Georgia Power-CCR
Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Laura Midkiff, Georgia Power
Michael Smilley, Georgia Power
Tina Sullivan, ERM
Anthony Szwast, Geosyntec



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: Plant Hammond Pooled - RADS
Pace Project No.: 92648448

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

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SAMPLE SUMMARY

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|--------------|--------|----------------|----------------|
| 92648448001 | HAM-HGWA-3 | Water | 01/23/23 16:49 | 01/24/23 12:38 |
| 92648448002 | HAM-HGWA-2 | Water | 01/24/23 09:35 | 01/26/23 11:15 |
| 92648448003 | HAM-HGWA-43D | Water | 01/24/23 10:55 | 01/26/23 11:15 |
| 92648448004 | HAM-HGWA-44D | Water | 01/24/23 10:57 | 01/26/23 11:15 |
| 92648448005 | HAM-HGWA-1 | Water | 01/24/23 09:35 | 01/26/23 11:15 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------|--------------------------|----------|-------------------|------------|
| 92648448001 | HAM-HGWA-3 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92648448002 | HAM-HGWA-2 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92648448003 | HAM-HGWA-43D | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92648448004 | HAM-HGWA-44D | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92648448005 | HAM-HGWA-1 | EPA 9315 | RMS | 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

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SUMMARY OF DETECTION

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------|--------------------------------|---|-------|--------------|----------------|------------|
| 92648448001 | HAM-HGWA-3 | | | | | |
| EPA 9315 | Radium-226 | 0.0154 ± 0.0951 (0.254) C:94% T:NA | pCi/L | | 02/20/23 10:18 | |
| EPA 9320 | Radium-228 | 0.296 ± 0.260 (0.535) C:94% T:91% | pCi/L | | 02/06/23 14:48 | |
| Total Radium Calculation | Total Radium | 0.311 ± 0.355 (0.789) | pCi/L | | 03/21/23 16:16 | |
| 92648448002 | HAM-HGWA-2 | | | | | |
| EPA 9315 | Radium-226 | 0.230 ± 0.165 (0.266) C:92% T:NA | pCi/L | | 02/20/23 10:18 | |
| EPA 9320 | Radium-228 | 0.599 ± 0.364 (0.677) C:84% T:89% | pCi/L | | 02/08/23 14:36 | |
| Total Radium Calculation | Total Radium | 0.829 ± 0.529 (0.943) | pCi/L | | 03/21/23 16:16 | |
| 92648448003 | HAM-HGWA-43D | | | | | |
| EPA 9315 | Radium-226 | 0.304 ± 0.186 (0.279) C:95% T:NA | pCi/L | | 02/20/23 10:18 | |
| EPA 9320 | Radium-228 | 0.950 ± 0.437 (0.730) C:81% T:84% | pCi/L | | 02/08/23 14:36 | |
| Total Radium Calculation | Total Radium | 1.25 ± 0.623 (1.01) | pCi/L | | 03/21/23 16:16 | |
| 92648448004 | HAM-HGWA-44D | | | | | |
| EPA 9315 | Radium-226 | 0.112 ± 0.122 (0.232) C:96% T:NA | pCi/L | | 02/20/23 10:18 | |
| EPA 9320 | Radium-228 | 0.309 ± 0.319 (0.657) C:83% T:82% | pCi/L | | 02/08/23 14:39 | |
| Total Radium Calculation | Total Radium | 0.421 ± 0.441 (0.889) | pCi/L | | 03/21/23 16:16 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------|--------------------------------|---|-------|--------------|----------------|------------|
| 92648448005 | HAM-HGWA-1 | | | | | |
| EPA 9315 | Radium-226 | 0.0747 ± 0.114 (0.248) C:96% T:NA | pCi/L | | 02/20/23 10:18 | |
| EPA 9320 | Radium-228 | 0.474 ± 0.314 (0.587) C:84% T:86% | pCi/L | | 02/08/23 14:39 | |
| Total Radium Calculation | Total Radium | 0.549 ± 0.428 (0.835) | pCi/L | | 03/21/23 16:16 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|---|-------|----------------|------------|------|
| Sample: HAM-HGWA-3 Lab ID: 92648448001 Collected: 01/23/23 16:49 Received: 01/24/23 12:38 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0154 ± 0.0951 (0.254) C:94% T:NA | pCi/L | 02/20/23 10:18 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.296 ± 0.260 (0.535) C:94% T:91% | pCi/L | 02/06/23 14:48 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.311 ± 0.355 (0.789) | pCi/L | 03/21/23 16:16 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|--|-------|----------------|------------|------|
| Sample: HAM-HGWA-2 Lab ID: 92648448002 Collected: 01/24/23 09:35 Received: 01/26/23 11:15 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.230 ± 0.165 (0.266) C:92% T:NA | pCi/L | 02/20/23 10:18 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.599 ± 0.364 (0.677) C:84% T:89% | pCi/L | 02/08/23 14:36 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.829 ± 0.529 (0.943) | pCi/L | 03/21/23 16:16 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Sample: HAM-HGWA-43D **Lab ID: 92648448003** Collected: 01/24/23 10:55 Received: 01/26/23 11:15 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 ± 0.186 (0.279) C:95% T:NA | pCi/L | 02/20/23 10:18 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.950 ± 0.437 (0.730) C:81% T:84% | pCi/L | 02/08/23 14:36 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 1.25 ± 0.623 (1.01) | pCi/L | 03/21/23 16:16 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Sample: HAM-HGWA-44D **Lab ID: 92648448004** Collected: 01/24/23 10:57 Received: 01/26/23 11:15 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 | 0.112 ± 0.122 (0.232) C:96% T:NA | pCi/L | 02/20/23 10:18 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.309 ± 0.319 (0.657) C:83% T:82% | pCi/L | 02/08/23 14:39 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.421 ± 0.441 (0.889) | pCi/L | 03/21/23 16:16 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---------------------------------------|--|-------|----------------|------------|------|
| Sample: HAM-HGWA-1 Lab ID: 92648448005 Collected: 01/24/23 09:35 Received: 01/26/23 11:15 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0747 ± 0.114 (0.248) C:96% T:NA | pCi/L | 02/20/23 10:18 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.474 ± 0.314 (0.587) C:84% T:86% | pCi/L | 02/08/23 14:39 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.549 ± 0.428 (0.835) | pCi/L | 03/21/23 16:16 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

QC Batch: 567003

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92648448001, 92648448002, 92648448003, 92648448004, 92648448005

METHOD BLANK: 2753256

Matrix: Water

Associated Lab Samples: 92648448001, 92648448002, 92648448003, 92648448004, 92648448005

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|------------------------------------|-------|----------------|------------|
| Radium-226 | 0.0414 ± 0.0994 (0.240) C:92% T:NA | pCi/L | 02/20/23 10:18 | |

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

QC Batch: 567029

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92648448001, 92648448002, 92648448003, 92648448004, 92648448005

METHOD BLANK: 2753383

Matrix: Water

Associated Lab Samples: 92648448001, 92648448002, 92648448003, 92648448004, 92648448005

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.482 ± 0.308 (0.572) C:92% T:84% | pCi/L | 02/06/23 14:47 | |

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond Pooled - RADS
Pace Project No.: 92648448

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------|--------------------------|----------|-------------------|------------------|
| 92648448001 | HAM-HGWA-3 | EPA 9315 | 567003 | | |
| 92648448002 | HAM-HGWA-2 | EPA 9315 | 567003 | | |
| 92648448003 | HAM-HGWA-43D | EPA 9315 | 567003 | | |
| 92648448004 | HAM-HGWA-44D | EPA 9315 | 567003 | | |
| 92648448005 | HAM-HGWA-1 | EPA 9315 | 567003 | | |
| 92648448001 | HAM-HGWA-3 | EPA 9320 | 567029 | | |
| 92648448002 | HAM-HGWA-2 | EPA 9320 | 567029 | | |
| 92648448003 | HAM-HGWA-43D | EPA 9320 | 567029 | | |
| 92648448004 | HAM-HGWA-44D | EPA 9320 | 567029 | | |
| 92648448005 | HAM-HGWA-1 | EPA 9320 | 567029 | | |
| 92648448001 | HAM-HGWA-3 | Total Radium Calculation | 575358 | | |
| 92648448002 | HAM-HGWA-2 | Total Radium Calculation | 575358 | | |
| 92648448003 | HAM-HGWA-43D | Total Radium Calculation | 575358 | | |
| 92648448004 | HAM-HGWA-44D | Total Radium Calculation | 575358 | | |
| 92648448005 | HAM-HGWA-1 | Total Radium Calculation | 575358 | | |

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

E A Power

Project #:

WO#: 92648448



Courier: Commercial Fed Ex Pace UPS USPS Other: Client

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *1/24/23*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID:

230

Type of Ice:

Wet Blue None

Cooler Temp:

4.4

Correction Factor:

Add/Subtract (°C)

0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

4.4

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | Comments/Discrepancy: |
|---|--|-----------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -includes Date/Time/ID/Analysis Matrix: | <i>W</i> | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHG

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92648448

PM: BV

Due Date: 02/14/23

CLIENT: GA-GA Power

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass Jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|--|
| 1 | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



DC#_ Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: Georgia Power Project #:

WO#: 92648448

PM: BV Due Date: 02/09/23 CLIENT: GA-GA Power

Courier: Commercial Fed Ex UPS USPS Other: Client Pace

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 1/26/23 Jm

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 1.3 Correction Factor: Add/Subtract (°C) 0 0

Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.3

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | | Comments/Discrepancy: |
|--|--|--|-----------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | | 3. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | | 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 7. |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | 8. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 9. |
| -Includes Date/Time/ID/Analysis Matrix: <u>W6/WQ</u> | | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | 11. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO# : 92648448

PM: BV

Due Date: 02/09/23

CLIENT: GA-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9W-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2SO3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|-----------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|---|
| 1 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 2 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 3 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 4 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 5 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 6 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 7 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 8 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 9 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 11 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| 12 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Required Client Information:
 Company: GA Power
 Address: Atlanta, GA
 Email To: SCS Contacts
 Phone: _____ Fax: _____
 Requested Due Date/TAT: 10 Day

Section B
 Required Project Information:
 Report To: SCS Contacts
 Copy To: Geosyntec Contacts
 Purchase Order No.: _____
 Project Name: Plant Hammond Pooled Upgrade
 Project Number: _____

Section C
 Invoice Information:
 Attention: Southern Co.
 Company Name:
 Address:
 Pace Quote Reference:
 Pace Project Manager: Bonnie Yang
 Pace Profile #: 10839

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER CCR
 Site Location: _____ STATE: GA

Page: 1 of 1

| ITEM # | Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW PRODUCT P SOLID S WIRE WR AR OT TS | SAMPLE TYPE (G=GRAV C=COMP) | COLLECTED | | # OF CONTAINERS | PRESERVATIVES | ANALYTES TEST | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | |
|--------|---|-----------------------------|-----------|-----------|-----------------|---------------|---------------|---------------------------|-------------|--|--|---|
| | | | COMPOSITE | DATE TIME | | | | | | | | |
| 1 | HAM-HGWA-2 | WG G | 1/24/2023 | 0935 | 16 | 5 | 2 | 3 | Unpreserved | H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ O ₂ Methanol Other | Chloride, Fluoride, Sulfide Fol. App. III and IV metals RAD 226/228 TDS | Residual Chlorine (Y/N) N pH = 5.22 N pH = 7.56 N pH = 8.22 N pH = 6.76 |
| 2 | HAM-HGWA-43D | WG G | 1/24/2023 | 1055 | 16 | 5 | 2 | 3 | Unpreserved | H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ O ₂ Methanol Other | Chloride, Fluoride, Sulfide Fol. App. III and IV metals RAD 226/228 TDS | Residual Chlorine (Y/N) N pH = 5.22 N pH = 7.56 N pH = 8.22 N pH = 6.76 |
| 3 | HAM-HGWA-44D | WG G | 1/24/2023 | 1057 | 15 | 5 | 2 | 3 | Unpreserved | H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ O ₂ Methanol Other | Chloride, Fluoride, Sulfide Fol. App. III and IV metals RAD 226/228 TDS | Residual Chlorine (Y/N) N pH = 5.22 N pH = 7.56 N pH = 8.22 N pH = 6.76 |
| 4 | HAM-HGWA-1 | WG G | 1/24/2023 | 1115 | 16 | 5 | 2 | 3 | Unpreserved | H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ O ₂ Methanol Other | Chloride, Fluoride, Sulfide Fol. App. III and IV metals RAD 226/228 TDS | Residual Chlorine (Y/N) N pH = 5.22 N pH = 7.56 N pH = 8.22 N pH = 6.76 |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |

ADDITIONAL COMMENTS
 Task Code: HAM-COR-ASSMT-202311

RELINQUISHED BY / AFFILIATION: Ryan William / Pace
 DATE: 1/24/23
 TIME: 1115

ACCEPTED BY / AFFILIATION: Ryan William / Pace
 DATE: 1/24/23
 TIME: 1115

SAMPLER NAME AND SIGNATURE: Ryan William / Pace
 PRINT Name of SAMPLER: Ryan William / Pace
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 1/21/2023
 (MIDDDY):

Temp in C: _____
 Received on Ice (Y/N): _____
 Sealed Cooler (Y/N): _____
 Samples Intact (Y/N): _____

August 2023



October 03, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92682927

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory between August 11, 2023 and August 14, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-1

Pace Project No.: 92682927

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1

Pace Project No.: 92682927

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------|--------|----------------|----------------|
| 92682398001 | HAM-HGWC-10 | Water | 08/10/23 17:03 | 08/11/23 13:12 |
| 92682398002 | HAM-HGWC-11 | Water | 08/10/23 11:31 | 08/11/23 13:12 |
| 92682398003 | HAM-HGWC-12 | Water | 08/10/23 11:10 | 08/11/23 13:12 |
| 92682398004 | HAM-MW-5 | Water | 08/10/23 11:42 | 08/11/23 13:12 |
| 92682398005 | HAM-MW-6 | Water | 08/10/23 14:22 | 08/11/23 13:12 |
| 92682398006 | HAM-MW-7 | Water | 08/10/23 12:56 | 08/11/23 13:12 |
| 92682398007 | HAM-MW-19 | Water | 08/10/23 15:03 | 08/11/23 13:12 |
| 92682398008 | HAM-MW-20 | Water | 08/10/23 10:19 | 08/11/23 13:12 |
| 92682398009 | HAM-MW-25D | Water | 08/10/23 12:57 | 08/11/23 13:12 |
| 92682398010 | HAM-MW-29 | Water | 08/10/23 16:15 | 08/11/23 13:12 |
| 92682397009 | HAM-HGWC-7 | Water | 08/12/23 14:35 | 08/14/23 11:15 |
| 92682397010 | HAM-HGWC-8 | Water | 08/12/23 09:32 | 08/14/23 11:15 |
| 92682397011 | HAM-HGWC-13 | Water | 08/12/23 12:05 | 08/14/23 11:15 |
| 92682397012 | HAM-MW-24D | Water | 08/12/23 10:15 | 08/14/23 11:15 |
| 92682397013 | HAM-MW-27D | Water | 08/12/23 14:20 | 08/14/23 11:15 |
| 92682397014 | HAM-AP1-EB-01 | Water | 08/12/23 13:35 | 08/14/23 11:15 |
| 92682397015 | HAM-AP1-FB-01 | Water | 08/12/23 13:30 | 08/14/23 11:15 |
| 92682397016 | HAM-HGWC-9 | Water | 08/11/23 17:03 | 08/14/23 11:15 |
| 92682397017 | HAM-MW-26D | Water | 08/11/23 16:54 | 08/14/23 11:15 |
| 92682397018 | HAM-MW-28D | Water | 08/11/23 15:14 | 08/14/23 11:15 |
| 92682927022 | HAM-AP1-FD-01 | Water | 08/12/23 00:00 | 08/14/23 13:22 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1

Pace Project No.: 92682927

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-------------|------------------------|----------|-------------------|
| 92682398001 | HAM-HGWC-10 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92682398002 | HAM-HGWC-11 | EPA 6010D | DRB, MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92682398003 | HAM-HGWC-12 | EPA 6010D | DRB, MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92682398004 | HAM-MW-5 | EPA 6010D | DRB, MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92682398005 | HAM-MW-6 | EPA 6010D | DRB, MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92682398006 | HAM-MW-7 | EPA 6010D | DRB, MS | 6 |
| | | EPA 6020B | CW1 | 13 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1

Pace Project No.: 92682927

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|------------|------------------------|----------|-------------------|
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92682398007 | HAM-MW-19 | EPA 6010D | DRB, MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92682398008 | HAM-MW-20 | EPA 6010D | DRB, MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92682398009 | HAM-MW-25D | EPA 6010D | DRB, MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92682398010 | HAM-MW-29 | EPA 6010D | DRB, MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92682397009 | HAM-HGWC-7 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1

Pace Project No.: 92682927

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------|------------------------|----------|-------------------|
| 92682397010 | HAM-HGWC-8 | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| | | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| 92682397011 | HAM-HGWC-13 | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| | | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| 92682397012 | HAM-MW-24D | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| | | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92682397013 | HAM-MW-27D | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| | | EPA 6010D | DRB | 1 |
| 92682397014 | HAM-AP1-EB-01 | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| | | EPA 6010D | DRB | 1 |
| 92682397015 | HAM-AP1-FB-01 | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| | | EPA 6010D | DRB | 1 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1

Pace Project No.: 92682927

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | | |
|------------------------|------------|------------------------|---------------|-------------------|-----|----|
| 92682397016 | HAM-HGWC-9 | EPA 6020B | CW1 | 13 | | |
| | | EPA 7470A | VB | 1 | | |
| | | SM 2540C-2015 | DL1 | 1 | | |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | | |
| | | EPA 6010D | DRB | 6 | | |
| | | EPA 6020B | CW1 | 13 | | |
| | | EPA 7470A | VB | 1 | | |
| | | SM 2540C-2015 | DL1 | 1 | | |
| | | SM 2320B-2011 | SMS | 3 | | |
| 92682397017 | HAM-MW-26D | SM 4500-S2D-2011 | JP1 | 1 | | |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | | |
| | | EPA 6010D | DRB | 6 | | |
| | | EPA 6020B | CW1 | 13 | | |
| | | EPA 7470A | VB | 1 | | |
| | | SM 2540C-2015 | DL1 | 1 | | |
| | | SM 2320B-2011 | SMS | 3 | | |
| | | SM 4500-S2D-2011 | JP1 | 1 | | |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | | |
| 92682397018 | HAM-MW-28D | EPA 6010D | DRB | 6 | | |
| | | EPA 6020B | CW1 | 13 | | |
| | | EPA 7470A | VB | 1 | | |
| | | SM 2540C-2015 | DL1 | 1 | | |
| | | SM 2320B-2011 | SMS | 3 | | |
| | | SM 4500-S2D-2011 | JP1 | 1 | | |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | | |
| | | 92682927022 | HAM-AP1-FD-01 | EPA 6010D | MS | 6 |
| | | | | EPA 6020B | CW1 | 13 |
| EPA 7470A | VB | | | 1 | | |
| SM 2540C-2015 | DL1 | | | 1 | | |
| SM 2320B-2011 | YEG | | | 3 | | |
| SM 4500-S2D-2011 | JP1 | | | 1 | | |
| EPA 300.0 Rev 2.1 1993 | CDC | | | 3 | | |

PASI-A = Pace Analytical Services - Asheville

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92682927

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|-----------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92682398001 | HAM-HGWC-10 | | | | | |
| EPA 6010D | Manganese | 0.33 | mg/L | 0.040 | 08/18/23 21:08 | |
| EPA 6010D | Potassium | 2.2 | mg/L | 0.50 | 08/18/23 21:08 | |
| EPA 6010D | Sodium | 9.4 | mg/L | 1.0 | 08/18/23 21:08 | |
| EPA 6010D | Calcium | 155 | mg/L | 1.0 | 08/18/23 21:08 | |
| EPA 6010D | Magnesium | 10.8 | mg/L | 0.050 | 08/18/23 21:08 | |
| EPA 6020B | Barium | 0.045 | mg/L | 0.0050 | 08/22/23 16:36 | |
| EPA 6020B | Boron | 0.65 | mg/L | 0.20 | 08/23/23 19:19 | |
| EPA 6020B | Molybdenum | 0.0014J | mg/L | 0.010 | 08/22/23 16:36 | |
| SM 2540C-2015 | Total Dissolved Solids | 504 | mg/L | 25.0 | 08/16/23 14:51 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 270 | mg/L | 5.0 | 08/17/23 11:41 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 270 | mg/L | 5.0 | 08/17/23 11:41 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 13.4 | mg/L | 1.0 | 08/15/23 21:47 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.050J | mg/L | 0.10 | 08/15/23 21:47 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 128 | mg/L | 3.0 | 08/16/23 09:02 | |
| 92682398002 | HAM-HGWC-11 | | | | | |
| EPA 6010D | Sodium | 5.9 | mg/L | 1.0 | 08/17/23 21:31 | |
| EPA 6010D | Potassium | 2.6 | mg/L | 0.50 | 08/18/23 15:22 | |
| EPA 6010D | Calcium | 100 | mg/L | 1.0 | 08/18/23 15:22 | M1 |
| EPA 6010D | Magnesium | 11.8 | mg/L | 0.050 | 08/18/23 15:22 | M1 |
| EPA 6020B | Barium | 0.027 | mg/L | 0.0050 | 08/22/23 16:47 | |
| EPA 6020B | Beryllium | 0.000069J | mg/L | 0.00050 | 08/22/23 16:47 | |
| EPA 6020B | Boron | 0.44 | mg/L | 0.40 | 08/23/23 19:42 | |
| EPA 6020B | Molybdenum | 0.014 | mg/L | 0.010 | 08/22/23 16:47 | |
| EPA 6020B | Selenium | 0.0089 | mg/L | 0.0050 | 08/22/23 16:47 | |
| SM 2540C-2015 | Total Dissolved Solids | 438 | mg/L | 25.0 | 08/16/23 14:51 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 80.0 | mg/L | 5.0 | 08/16/23 20:59 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 80.0 | mg/L | 5.0 | 08/16/23 20:59 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 6.5 | mg/L | 1.0 | 08/15/23 23:28 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.15 | mg/L | 0.10 | 08/15/23 23:28 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 190 | mg/L | 4.0 | 08/16/23 10:13 | |
| 92682398003 | HAM-HGWC-12 | | | | | |
| EPA 6010D | Manganese | 1.5 | mg/L | 0.040 | 08/17/23 22:00 | |
| EPA 6010D | Sodium | 8.3 | mg/L | 1.0 | 08/17/23 22:00 | |
| EPA 6010D | Iron | 0.028J | mg/L | 0.040 | 08/18/23 16:28 | |
| EPA 6010D | Potassium | 7.4 | mg/L | 0.50 | 08/18/23 16:28 | |
| EPA 6010D | Calcium | 156 | mg/L | 1.0 | 08/18/23 16:28 | |
| EPA 6010D | Magnesium | 14.7 | mg/L | 0.050 | 08/18/23 16:28 | |
| EPA 6020B | Barium | 0.075 | mg/L | 0.0050 | 08/22/23 16:54 | |
| EPA 6020B | Boron | 1.4 | mg/L | 0.40 | 08/23/23 19:54 | |
| EPA 6020B | Cobalt | 0.0012J | mg/L | 0.0050 | 08/22/23 16:54 | |
| EPA 6020B | Lithium | 0.0075J | mg/L | 0.030 | 08/22/23 16:54 | |
| EPA 6020B | Molybdenum | 0.050 | mg/L | 0.010 | 08/22/23 16:54 | |
| SM 2540C-2015 | Total Dissolved Solids | 683 | mg/L | 25.0 | 08/16/23 14:52 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 199 | mg/L | 5.0 | 08/16/23 21:16 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 199 | mg/L | 5.0 | 08/16/23 21:16 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 30.6 | mg/L | 1.0 | 08/16/23 00:26 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92682927

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|----------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92682398003 | HAM-HGWC-12 | | | | | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.17 | mg/L | 0.10 | 08/16/23 00:26 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 209 | mg/L | 5.0 | 08/16/23 10:42 | |
| 92682398004 | HAM-MW-5 | | | | | |
| EPA 6010D | Potassium | 1.0 | mg/L | 0.50 | 08/18/23 16:33 | |
| EPA 6010D | Calcium | 99.7 | mg/L | 1.0 | 08/18/23 16:33 | |
| EPA 6010D | Magnesium | 10.9 | mg/L | 0.050 | 08/18/23 16:33 | |
| EPA 6010D | Sodium | 19.5 | mg/L | 1.0 | 08/17/23 22:05 | |
| EPA 6020B | Barium | 0.048 | mg/L | 0.0050 | 08/22/23 16:58 | |
| EPA 6020B | Boron | 0.037J | mg/L | 0.040 | 08/23/23 13:29 | |
| EPA 6020B | Chromium | 0.0020J | mg/L | 0.0050 | 08/22/23 16:58 | |
| EPA 6020B | Selenium | 0.0020J | mg/L | 0.0050 | 08/22/23 16:58 | |
| SM 2540C-2015 | Total Dissolved Solids | 423 | mg/L | 25.0 | 08/16/23 14:52 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 179 | mg/L | 5.0 | 08/16/23 21:28 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 179 | mg/L | 5.0 | 08/16/23 21:28 | M1 |
| EPA 300.0 Rev 2.1 1993 | Chloride | 0.86J | mg/L | 1.0 | 08/16/23 00:40 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.066J | mg/L | 0.10 | 08/16/23 00:40 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 137 | mg/L | 3.0 | 08/16/23 10:56 | |
| 92682398005 | HAM-MW-6 | | | | | |
| EPA 6010D | Calcium | 179 | mg/L | 5.0 | 08/18/23 16:43 | |
| EPA 6010D | Manganese | 0.43 | mg/L | 0.040 | 08/17/23 22:10 | |
| EPA 6010D | Sodium | 13.0 | mg/L | 1.0 | 08/17/23 22:10 | |
| EPA 6010D | Iron | 0.23 | mg/L | 0.040 | 08/18/23 16:38 | |
| EPA 6010D | Potassium | 1.3 | mg/L | 0.50 | 08/18/23 16:38 | |
| EPA 6010D | Magnesium | 13.4 | mg/L | 0.050 | 08/18/23 16:38 | |
| EPA 6020B | Barium | 0.066 | mg/L | 0.0050 | 08/22/23 17:16 | |
| EPA 6020B | Boron | 0.65 | mg/L | 0.20 | 08/23/23 20:00 | |
| EPA 6020B | Cobalt | 0.00041J | mg/L | 0.0050 | 08/22/23 17:16 | |
| EPA 6020B | Molybdenum | 0.0026J | mg/L | 0.010 | 08/22/23 17:16 | |
| SM 2540C-2015 | Total Dissolved Solids | 626 | mg/L | 25.0 | 08/16/23 14:52 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 298 | mg/L | 5.0 | 08/17/23 11:50 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 298 | mg/L | 5.0 | 08/17/23 11:50 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 26.9 | mg/L | 1.0 | 08/16/23 00:55 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.053J | mg/L | 0.10 | 08/16/23 00:55 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 174 | mg/L | 4.0 | 08/16/23 11:10 | |
| 92682398006 | HAM-MW-7 | | | | | |
| EPA 6010D | Sodium | 7.1 | mg/L | 1.0 | 08/17/23 22:15 | |
| EPA 6010D | Potassium | 0.74 | mg/L | 0.50 | 08/18/23 16:48 | |
| EPA 6010D | Calcium | 81.2 | mg/L | 1.0 | 08/18/23 16:48 | |
| EPA 6010D | Magnesium | 6.9 | mg/L | 0.050 | 08/18/23 16:48 | |
| EPA 6020B | Barium | 0.059 | mg/L | 0.0050 | 08/22/23 17:19 | |
| EPA 6020B | Boron | 0.13 | mg/L | 0.040 | 08/24/23 14:52 | |
| EPA 6020B | Chromium | 0.0015J | mg/L | 0.0050 | 08/22/23 17:19 | |
| EPA 6020B | Molybdenum | 0.0022J | mg/L | 0.010 | 08/22/23 17:19 | |
| SM 2540C-2015 | Total Dissolved Solids | 305 | mg/L | 25.0 | 08/16/23 14:53 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 175 | mg/L | 5.0 | 08/17/23 15:32 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 175 | mg/L | 5.0 | 08/17/23 15:32 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92682927

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|----------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92682398006 | HAM-MW-7 | | | | | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 3.3 | mg/L | 1.0 | 08/16/23 01:09 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 67.3 | mg/L | 1.0 | 08/16/23 01:09 | |
| 92682398007 | HAM-MW-19 | | | | | |
| EPA 6010D | Manganese | 3.2 | mg/L | 0.040 | 08/17/23 22:19 | |
| EPA 6010D | Sodium | 5.5 | mg/L | 1.0 | 08/17/23 22:19 | |
| EPA 6010D | Potassium | 3.1 | mg/L | 0.50 | 08/18/23 16:52 | |
| EPA 6010D | Calcium | 127 | mg/L | 1.0 | 08/18/23 16:52 | |
| EPA 6010D | Magnesium | 12.5 | mg/L | 0.050 | 08/18/23 16:52 | |
| EPA 6020B | Barium | 0.032 | mg/L | 0.0050 | 08/22/23 19:53 | |
| EPA 6020B | Boron | 0.53 | mg/L | 0.040 | 08/22/23 19:53 | |
| EPA 6020B | Cadmium | 0.00018J | mg/L | 0.00050 | 08/22/23 19:53 | |
| EPA 6020B | Cobalt | 0.027 | mg/L | 0.0050 | 08/22/23 19:53 | |
| EPA 6020B | Lithium | 0.011J | mg/L | 0.030 | 08/22/23 19:53 | |
| EPA 6020B | Molybdenum | 0.033 | mg/L | 0.010 | 08/22/23 19:53 | |
| EPA 6020B | Selenium | 0.0038J | mg/L | 0.0050 | 08/22/23 19:53 | |
| SM 2540C-2015 | Total Dissolved Solids | 524 | mg/L | 25.0 | 08/16/23 14:55 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 133 | mg/L | 5.0 | 08/17/23 15:43 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 133 | mg/L | 5.0 | 08/17/23 15:43 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 11.2 | mg/L | 1.0 | 08/16/23 01:23 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.14 | mg/L | 0.10 | 08/16/23 01:23 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 210 | mg/L | 5.0 | 08/16/23 11:53 | |
| 92682398008 | HAM-MW-20 | | | | | |
| EPA 6010D | Iron | 2.7 | mg/L | 0.040 | 08/18/23 16:57 | |
| EPA 6010D | Potassium | 0.26J | mg/L | 0.50 | 08/18/23 16:57 | |
| EPA 6010D | Calcium | 123 | mg/L | 1.0 | 08/18/23 16:57 | |
| EPA 6010D | Magnesium | 8.8 | mg/L | 0.050 | 08/18/23 16:57 | |
| EPA 6010D | Manganese | 0.13 | mg/L | 0.040 | 08/17/23 22:24 | |
| EPA 6010D | Sodium | 12.2 | mg/L | 1.0 | 08/17/23 22:24 | |
| EPA 6020B | Barium | 0.093 | mg/L | 0.0050 | 08/22/23 19:59 | |
| EPA 6020B | Boron | 0.10 | mg/L | 0.040 | 08/22/23 19:59 | |
| SM 2540C-2015 | Total Dissolved Solids | 429 | mg/L | 25.0 | 08/16/23 14:57 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 249 | mg/L | 5.0 | 08/17/23 19:31 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 249 | mg/L | 5.0 | 08/17/23 19:31 | |
| SM 4500-S2D-2011 | Sulfide | 0.024J | mg/L | 0.10 | 08/15/23 06:46 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 28.4 | mg/L | 1.0 | 08/16/23 01:38 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 100 | mg/L | 1.0 | 08/16/23 01:38 | |
| 92682398009 | HAM-MW-25D | | | | | |
| EPA 6010D | Iron | 1.9 | mg/L | 0.040 | 08/18/23 17:02 | |
| EPA 6010D | Potassium | 0.47J | mg/L | 0.50 | 08/18/23 17:02 | |
| EPA 6010D | Calcium | 86.1 | mg/L | 1.0 | 08/18/23 17:02 | |
| EPA 6010D | Magnesium | 8.8 | mg/L | 0.050 | 08/18/23 17:02 | |
| EPA 6010D | Manganese | 0.016J | mg/L | 0.040 | 08/17/23 22:29 | |
| EPA 6010D | Sodium | 111 | mg/L | 1.0 | 08/17/23 22:29 | |
| EPA 6020B | Barium | 0.71 | mg/L | 0.0050 | 08/22/23 20:05 | |
| EPA 6020B | Boron | 0.31 | mg/L | 0.040 | 08/22/23 20:05 | |
| EPA 6020B | Lithium | 0.038 | mg/L | 0.030 | 08/22/23 20:05 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92682927

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|-------------------|-------|--------------|----------------|------------|
| 92682398009 | | HAM-MW-25D | | | | |
| EPA 7470A | Mercury | 0.00013J | mg/L | 0.00020 | 08/22/23 16:38 | M1 |
| SM 2540C-2015 | Total Dissolved Solids | 325 | mg/L | 25.0 | 08/16/23 14:57 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 304 | mg/L | 5.0 | 08/17/23 19:40 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 304 | mg/L | 5.0 | 08/17/23 19:40 | |
| SM 4500-S2D-2011 | Sulfide | 0.16 | mg/L | 0.10 | 08/15/23 06:48 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 13.6 | mg/L | 1.0 | 08/16/23 01:52 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 1.5 | mg/L | 0.10 | 08/16/23 01:52 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 0.62J | mg/L | 1.0 | 08/16/23 01:52 | |
| 92682398010 | | HAM-MW-29 | | | | |
| EPA 6010D | Manganese | 0.86 | mg/L | 0.040 | 08/17/23 22:44 | |
| EPA 6010D | Potassium | 1.2 | mg/L | 0.50 | 08/17/23 22:44 | |
| EPA 6010D | Sodium | 12.7 | mg/L | 1.0 | 08/17/23 22:44 | |
| EPA 6010D | Magnesium | 11.9 | mg/L | 0.050 | 08/17/23 22:44 | |
| EPA 6010D | Iron | 0.049 | mg/L | 0.040 | 08/18/23 17:53 | |
| EPA 6010D | Calcium | 147 | mg/L | 1.0 | 08/18/23 17:53 | |
| EPA 6020B | Barium | 0.066 | mg/L | 0.0050 | 08/22/23 20:11 | |
| EPA 6020B | Boron | 1.1 | mg/L | 0.040 | 08/22/23 20:11 | |
| EPA 6020B | Lithium | 0.0019J | mg/L | 0.030 | 08/22/23 20:11 | |
| EPA 6020B | Molybdenum | 0.0030J | mg/L | 0.010 | 08/22/23 20:11 | |
| EPA 7470A | Mercury | 0.00017J | mg/L | 0.00020 | 08/22/23 17:12 | |
| SM 2540C-2015 | Total Dissolved Solids | 564 | mg/L | 25.0 | 08/16/23 15:00 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 208 | mg/L | 5.0 | 08/17/23 16:13 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 208 | mg/L | 5.0 | 08/17/23 16:13 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 56.1 | mg/L | 1.0 | 08/16/23 02:35 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 134 | mg/L | 3.0 | 08/16/23 12:08 | |
| 92682397009 | | HAM-HGWC-7 | | | | |
| EPA 6010D | Iron | 0.073 | mg/L | 0.040 | 08/18/23 23:00 | |
| EPA 6010D | Manganese | 0.20 | mg/L | 0.040 | 08/18/23 23:00 | |
| EPA 6010D | Potassium | 2.1 | mg/L | 0.50 | 08/18/23 23:00 | |
| EPA 6010D | Sodium | 12.7 | mg/L | 1.0 | 08/18/23 23:00 | |
| EPA 6010D | Calcium | 101 | mg/L | 1.0 | 08/18/23 23:00 | |
| EPA 6010D | Magnesium | 9.6 | mg/L | 0.050 | 08/18/23 23:00 | |
| EPA 6020B | Barium | 0.060 | mg/L | 0.0050 | 08/22/23 17:02 | |
| EPA 6020B | Boron | 0.82 | mg/L | 0.040 | 08/22/23 17:02 | |
| EPA 6020B | Cobalt | 0.00061J | mg/L | 0.0050 | 08/22/23 17:02 | |
| EPA 6020B | Lithium | 0.0023J | mg/L | 0.030 | 08/22/23 17:02 | |
| EPA 6020B | Molybdenum | 0.033 | mg/L | 0.010 | 08/22/23 17:02 | |
| SM 2540C-2015 | Total Dissolved Solids | 378 | mg/L | 25.0 | 08/16/23 15:00 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 210 | mg/L | 5.0 | 08/17/23 21:35 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 210 | mg/L | 5.0 | 08/17/23 21:35 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 33.3 | mg/L | 1.0 | 08/16/23 13:51 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.071J | mg/L | 0.10 | 08/16/23 13:51 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 84.2 | mg/L | 1.0 | 08/16/23 13:51 | |
| 92682397010 | | HAM-HGWC-8 | | | | |
| EPA 6010D | Iron | 0.058 | mg/L | 0.040 | 08/18/23 23:05 | |
| EPA 6010D | Manganese | 0.30 | mg/L | 0.040 | 08/18/23 23:05 | |

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92682927

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|----------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92682397010 | HAM-HGWC-8 | | | | | |
| EPA 6010D | Potassium | 7.6 | mg/L | 0.50 | 08/18/23 23:05 | |
| EPA 6010D | Sodium | 9.7 | mg/L | 1.0 | 08/18/23 23:05 | |
| EPA 6010D | Calcium | 122 | mg/L | 1.0 | 08/18/23 23:05 | |
| EPA 6010D | Magnesium | 17.3 | mg/L | 0.050 | 08/18/23 23:05 | |
| EPA 6020B | Barium | 0.052 | mg/L | 0.0050 | 08/22/23 17:08 | |
| EPA 6020B | Boron | 1.7 | mg/L | 0.040 | 08/22/23 17:08 | |
| EPA 6020B | Cadmium | 0.00044J | mg/L | 0.00050 | 08/22/23 17:08 | |
| EPA 6020B | Cobalt | 0.0016J | mg/L | 0.0050 | 08/22/23 17:08 | |
| EPA 6020B | Lithium | 0.0014J | mg/L | 0.030 | 08/22/23 17:08 | |
| EPA 6020B | Molybdenum | 0.34 | mg/L | 0.010 | 08/22/23 17:08 | |
| SM 2540C-2015 | Total Dissolved Solids | 564 | mg/L | 25.0 | 08/18/23 17:06 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 145 | mg/L | 5.0 | 08/17/23 21:47 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 145 | mg/L | 5.0 | 08/17/23 21:47 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 53.1 | mg/L | 1.0 | 08/16/23 14:06 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.59 | mg/L | 0.10 | 08/16/23 14:06 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 170 | mg/L | 4.0 | 08/17/23 05:08 | |
| 92682397011 | HAM-HGWC-13 | | | | | |
| EPA 6010D | Iron | 6.9 | mg/L | 0.040 | 08/18/23 23:10 | |
| EPA 6010D | Manganese | 9.0 | mg/L | 0.040 | 08/18/23 23:10 | |
| EPA 6010D | Potassium | 5.9 | mg/L | 0.50 | 08/18/23 23:10 | |
| EPA 6010D | Sodium | 6.9 | mg/L | 1.0 | 08/18/23 23:10 | |
| EPA 6010D | Calcium | 172 | mg/L | 1.0 | 08/18/23 23:10 | |
| EPA 6010D | Magnesium | 19.2 | mg/L | 0.050 | 08/18/23 23:10 | |
| EPA 6020B | Arsenic | 0.54 | mg/L | 0.010 | 08/22/23 17:14 | |
| EPA 6020B | Barium | 0.057 | mg/L | 0.0050 | 08/22/23 17:14 | |
| EPA 6020B | Beryllium | 0.00010J | mg/L | 0.00050 | 08/22/23 17:14 | |
| EPA 6020B | Boron | 1.0 | mg/L | 0.040 | 08/22/23 17:14 | |
| EPA 6020B | Cobalt | 0.018 | mg/L | 0.0050 | 08/22/23 17:14 | |
| EPA 6020B | Lithium | 0.051 | mg/L | 0.030 | 08/22/23 17:14 | |
| EPA 6020B | Molybdenum | 0.016 | mg/L | 0.010 | 08/22/23 17:14 | |
| EPA 6020B | Thallium | 0.00028J | mg/L | 0.0010 | 08/22/23 17:14 | |
| SM 2540C-2015 | Total Dissolved Solids | 803 | mg/L | 25.0 | 08/18/23 17:06 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 145 | mg/L | 5.0 | 08/17/23 21:57 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 145 | mg/L | 5.0 | 08/17/23 21:57 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 15.3 | mg/L | 1.0 | 08/16/23 14:20 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.32 | mg/L | 0.10 | 08/16/23 14:20 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 347 | mg/L | 7.0 | 08/17/23 05:51 | |
| 92682397012 | HAM-MW-24D | | | | | |
| EPA 6010D | Iron | 0.19 | mg/L | 0.040 | 08/18/23 23:15 | |
| EPA 6010D | Manganese | 0.062 | mg/L | 0.040 | 08/18/23 23:15 | |
| EPA 6010D | Potassium | 0.68 | mg/L | 0.50 | 08/18/23 23:15 | |
| EPA 6010D | Sodium | 12.5 | mg/L | 1.0 | 08/18/23 23:15 | |
| EPA 6010D | Calcium | 105 | mg/L | 1.0 | 08/18/23 23:15 | |
| EPA 6010D | Magnesium | 6.3 | mg/L | 0.050 | 08/18/23 23:15 | |
| EPA 6020B | Barium | 0.053 | mg/L | 0.0050 | 08/22/23 17:19 | |
| EPA 6020B | Boron | 0.55 | mg/L | 0.040 | 08/22/23 17:19 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92682927

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|----------|-------|--------------|----------------|------------|
| 92682397012 | HAM-MW-24D | | | | | |
| EPA 6020B | Lithium | 0.0030J | mg/L | 0.030 | 08/22/23 17:19 | |
| EPA 6020B | Molybdenum | 0.0019J | mg/L | 0.010 | 08/22/23 17:19 | |
| SM 2540C-2015 | Total Dissolved Solids | 449 | mg/L | 25.0 | 08/18/23 17:06 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 105 | mg/L | 5.0 | 08/17/23 22:07 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 105 | mg/L | 5.0 | 08/17/23 22:07 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 35.1 | mg/L | 1.0 | 08/16/23 15:04 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.080J | mg/L | 0.10 | 08/16/23 15:04 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 146 | mg/L | 3.0 | 08/17/23 06:05 | |
| 92682397013 | HAM-MW-27D | | | | | |
| EPA 6010D | Iron | 0.29 | mg/L | 0.040 | 08/18/23 23:20 | |
| EPA 6010D | Manganese | 0.11 | mg/L | 0.040 | 08/18/23 23:20 | |
| EPA 6010D | Potassium | 0.88 | mg/L | 0.50 | 08/18/23 23:20 | |
| EPA 6010D | Sodium | 31.5 | mg/L | 1.0 | 08/18/23 23:20 | |
| EPA 6010D | Calcium | 27.8 | mg/L | 1.0 | 08/18/23 23:20 | |
| EPA 6010D | Magnesium | 18.1 | mg/L | 0.050 | 08/18/23 23:20 | |
| EPA 6020B | Barium | 0.98 | mg/L | 0.0050 | 08/22/23 17:54 | |
| EPA 6020B | Boron | 0.13 | mg/L | 0.040 | 08/22/23 17:54 | |
| EPA 6020B | Lithium | 0.0072J | mg/L | 0.030 | 08/22/23 17:54 | |
| EPA 6020B | Molybdenum | 0.0019J | mg/L | 0.010 | 08/22/23 17:54 | |
| SM 2540C-2015 | Total Dissolved Solids | 238 | mg/L | 25.0 | 08/18/23 17:06 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 181 | mg/L | 5.0 | 08/17/23 22:16 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 181 | mg/L | 5.0 | 08/17/23 22:16 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 29.0 | mg/L | 1.0 | 08/16/23 15:18 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.26 | mg/L | 0.10 | 08/16/23 15:18 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 7.6 | mg/L | 1.0 | 08/16/23 15:18 | |
| 92682397016 | HAM-HGWC-9 | | | | | |
| EPA 6010D | Iron | 0.052 | mg/L | 0.040 | 08/18/23 23:45 | |
| EPA 6010D | Manganese | 0.57 | mg/L | 0.040 | 08/18/23 23:45 | |
| EPA 6010D | Potassium | 3.4 | mg/L | 0.50 | 08/18/23 23:45 | |
| EPA 6010D | Sodium | 12.3 | mg/L | 1.0 | 08/18/23 23:45 | |
| EPA 6010D | Calcium | 168 | mg/L | 1.0 | 08/18/23 23:45 | |
| EPA 6010D | Magnesium | 17.5 | mg/L | 0.050 | 08/18/23 23:45 | |
| EPA 6020B | Barium | 0.068 | mg/L | 0.0050 | 08/22/23 18:12 | |
| EPA 6020B | Boron | 2.1 | mg/L | 0.040 | 08/22/23 18:12 | |
| EPA 6020B | Cobalt | 0.00057J | mg/L | 0.0050 | 08/22/23 18:12 | |
| EPA 6020B | Lithium | 0.0035J | mg/L | 0.030 | 08/22/23 18:12 | |
| EPA 6020B | Molybdenum | 0.030 | mg/L | 0.010 | 08/22/23 18:12 | |
| SM 2540C-2015 | Total Dissolved Solids | 757 | mg/L | 25.0 | 08/17/23 11:18 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 204 | mg/L | 5.0 | 08/17/23 22:35 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 204 | mg/L | 5.0 | 08/17/23 22:35 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 78.9 | mg/L | 1.0 | 08/16/23 16:02 | M1 |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.12 | mg/L | 0.10 | 08/16/23 16:02 | M1 |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 197 | mg/L | 4.0 | 08/17/23 06:19 | M1 |
| 92682397017 | HAM-MW-26D | | | | | |
| EPA 6010D | Iron | 0.11 | mg/L | 0.040 | 08/18/23 23:49 | |
| EPA 6010D | Manganese | 0.13 | mg/L | 0.040 | 08/18/23 23:49 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92682927

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|----------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92682397017 | HAM-MW-26D | | | | | |
| EPA 6010D | Potassium | 1.9 | mg/L | 0.50 | 08/18/23 23:49 | |
| EPA 6010D | Sodium | 12.9 | mg/L | 1.0 | 08/18/23 23:49 | |
| EPA 6010D | Calcium | 152 | mg/L | 1.0 | 08/18/23 23:49 | |
| EPA 6010D | Magnesium | 15.5 | mg/L | 0.050 | 08/18/23 23:49 | |
| EPA 6020B | Barium | 0.059 | mg/L | 0.0050 | 08/22/23 18:24 | |
| EPA 6020B | Boron | 1.6 | mg/L | 0.040 | 08/22/23 18:24 | |
| EPA 6020B | Lithium | 0.0029J | mg/L | 0.030 | 08/22/23 18:24 | |
| EPA 6020B | Molybdenum | 0.014 | mg/L | 0.010 | 08/22/23 18:24 | |
| SM 2540C-2015 | Total Dissolved Solids | 706 | mg/L | 25.0 | 08/17/23 11:18 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 177 | mg/L | 5.0 | 08/17/23 22:48 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 177 | mg/L | 5.0 | 08/17/23 22:48 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 87.6 | mg/L | 1.0 | 08/16/23 16:45 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.083J | mg/L | 0.10 | 08/16/23 16:45 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 159 | mg/L | 3.0 | 08/17/23 07:02 | |
| 92682397018 | HAM-MW-28D | | | | | |
| EPA 6010D | Iron | 0.034J | mg/L | 0.040 | 08/18/23 23:54 | |
| EPA 6010D | Potassium | 1.4 | mg/L | 0.50 | 08/18/23 23:54 | |
| EPA 6010D | Sodium | 24.3 | mg/L | 1.0 | 08/18/23 23:54 | |
| EPA 6010D | Calcium | 49.6 | mg/L | 1.0 | 08/18/23 23:54 | |
| EPA 6010D | Magnesium | 26.7 | mg/L | 0.050 | 08/18/23 23:54 | |
| EPA 6020B | Barium | 2.2 | mg/L | 0.050 | 08/25/23 14:49 | M1 |
| EPA 6020B | Boron | 0.12 | mg/L | 0.040 | 08/24/23 15:40 | |
| EPA 6020B | Lithium | 0.016J | mg/L | 0.030 | 08/24/23 15:40 | |
| EPA 6020B | Molybdenum | 0.0011J | mg/L | 0.010 | 08/24/23 15:40 | |
| SM 2540C-2015 | Total Dissolved Solids | 296 | mg/L | 25.0 | 08/17/23 11:18 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 269 | mg/L | 5.0 | 08/18/23 09:15 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 269 | mg/L | 5.0 | 08/18/23 09:15 | |
| SM 4500-S2D-2011 | Sulfide | 3.5 | mg/L | 1.0 | 08/18/23 04:32 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 17.0 | mg/L | 1.0 | 08/16/23 17:00 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.26 | mg/L | 0.10 | 08/16/23 17:00 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 15.4 | mg/L | 1.0 | 08/16/23 17:00 | |
| 92682927022 | HAM-AP1-FD-01 | | | | | |
| EPA 6010D | Iron | 0.16 | mg/L | 0.040 | 08/24/23 18:58 | |
| EPA 6010D | Manganese | 0.054 | mg/L | 0.040 | 08/24/23 18:58 | |
| EPA 6010D | Potassium | 0.75 | mg/L | 0.50 | 08/24/23 18:58 | B |
| EPA 6010D | Sodium | 12.3 | mg/L | 1.0 | 08/24/23 18:58 | M1 |
| EPA 6010D | Calcium | 107 | mg/L | 1.0 | 08/24/23 18:58 | M1 |
| EPA 6010D | Magnesium | 6.3 | mg/L | 0.050 | 08/24/23 18:58 | M1 |
| EPA 6020B | Barium | 0.049 | mg/L | 0.0050 | 08/24/23 18:54 | |
| EPA 6020B | Boron | 0.52 | mg/L | 0.040 | 08/24/23 18:54 | |
| EPA 6020B | Lithium | 0.0028J | mg/L | 0.030 | 08/24/23 18:54 | |
| EPA 6020B | Molybdenum | 0.0016J | mg/L | 0.010 | 08/24/23 18:54 | |
| EPA 7470A | Mercury | 0.00017J | mg/L | 0.00020 | 08/22/23 17:15 | |
| SM 2540C-2015 | Total Dissolved Solids | 437 | mg/L | 25.0 | 08/18/23 17:07 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 103 | mg/L | 5.0 | 08/23/23 18:18 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 103 | mg/L | 5.0 | 08/23/23 18:18 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92682927

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|--------|-------|--------------|----------------|------------|
| 92682927022 | HAM-AP1-FD-01 | | | | | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 35.2 | mg/L | 1.0 | 08/18/23 19:48 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 135 | mg/L | 3.0 | 08/19/23 16:22 | |

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Hammond AP-1
Pace Project No.: 92682927

Date: October 03, 2023

HAM-MW-25D (Lab ID: 92682398009)

- For MW-25D (92682398009), Calcium did not confirm per instrument cross check and the result is estimated.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Hammond AP-1

Pace Project No.: 92682927

Method: EPA 6010D

Description: 6010D ATL ICP

Client: Georgia Power- Hammond

Date: October 03, 2023

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

QC Batch: 795463

B: Analyte was detected in the associated method blank.

- BLANK for HBN 795463 [GMPR/852 (Lab ID: 4121755)]
- Potassium

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: 793618

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92682392001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4112491)
- Calcium
- Magnesium
- Sodium

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Hammond AP-1

Pace Project No.: 92682927

Method: EPA 6010D

Description: 6010D ATL ICP

Client: Georgia Power- Hammond

Date: October 03, 2023

QC Batch: 793869

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92682398002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4113557)
 - Calcium
 - Magnesium
- MSD (Lab ID: 4113558)
 - Calcium
 - Magnesium

QC Batch: 794188

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92682552001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4115155)
 - Calcium
- MSD (Lab ID: 4115156)
 - Calcium
 - Magnesium
 - Sodium

QC Batch: 795463

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92682927022

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4121757)
 - Calcium
 - Magnesium
 - Sodium
- MSD (Lab ID: 4121758)
 - Calcium

Additional Comments:

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PROJECT NARRATIVE

Project: Hammond AP-1

Pace Project No.: 92682927

Method: EPA 6020B

Description: 6020 MET ICPMS

Client: Georgia Power- Hammond

Date: October 03, 2023

General Information:

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

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: 794002

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92682396010

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4114216)
 - Lead
 - Thallium
- MSD (Lab ID: 4114217)
 - Boron
 - Lead
 - Thallium

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PROJECT NARRATIVE

Project: Hammond AP-1

Pace Project No.: 92682927

Method: EPA 6020B

Description: 6020 MET ICPMS

Client: Georgia Power- Hammond

Date: October 03, 2023

QC Batch: 794885

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92682397018

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4118632)
- Barium

Additional Comments:

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PROJECT NARRATIVE

Project: Hammond AP-1

Pace Project No.: 92682927

Method: EPA 7470A

Description: 7470 Mercury

Client: Georgia Power- Hammond

Date: October 03, 2023

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: 795036

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92682398009

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4119608)
 - Mercury
- MSD (Lab ID: 4119609)
 - Mercury

Additional Comments:

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PROJECT NARRATIVE

Project: Hammond AP-1

Pace Project No.: 92682927

Method: SM 2540C-2015

Description: 2540C Total Dissolved Solids

Client: Georgia Power- Hammond

Date: October 03, 2023

General Information:

21 samples were analyzed for SM 2540C-2015 by Pace Analytical Services Peachtree Corners, GA. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

QC Batch: 794562

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 4117072)
- Total Dissolved Solids

Additional Comments:

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PROJECT NARRATIVE

Project: Hammond AP-1

Pace Project No.: 92682927

Method: SM 2320B-2011

Description: 2320B Alkalinity

Client: Georgia Power- Hammond

Date: October 03, 2023

General Information:

19 samples were analyzed for SM 2320B-2011 by Pace Analytical Services Asheville. 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.

QC Batch: 793988

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92682398004,92682398005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 4114124)
- Alkalinity, Total as CaCO₃

QC Batch: 794234

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92682576004,92682576005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 4115459)
- Alkalinity, Total as CaCO₃

QC Batch: 794235

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92681886006,92681886007

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4115468)
- Alkalinity, Total as CaCO₃
- MSD (Lab ID: 4115469)
- Alkalinity, Total as CaCO₃

Additional Comments:

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PROJECT NARRATIVE

Project: Hammond AP-1

Pace Project No.: 92682927

Method: SM 4500-S2D-2011

Description: 4500S2D Sulfide Water

Client: Georgia Power- Hammond

Date: October 03, 2023

General Information:

19 samples were analyzed for SM 4500-S2D-2011 by Pace Analytical Services Asheville. 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.

QC Batch: 793501

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92682393002,92682398007

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4111966)
- Sulfide

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Hammond AP-1

Pace Project No.: 92682927

Method: EPA 300.0 Rev 2.1 1993

Description: 300.0 IC Anions 28 Days

Client: Georgia Power- Hammond

Date: October 03, 2023

General Information:

21 samples were analyzed for EPA 300.0 Rev 2.1 1993 by Pace Analytical Services Asheville. 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.

QC Batch: 793550

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92682198001,92682396003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4112130)
 - Chloride
 - Sulfate
- MSD (Lab ID: 4112131)
 - Chloride
 - Sulfate

QC Batch: 793553

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92682397002,92682398009

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4112137)
 - Sulfate
- MSD (Lab ID: 4112138)
 - Sulfate

QC Batch: 793837

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92682397016,92682815002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4113452)
 - Chloride
 - Fluoride
 - Sulfate
- MS (Lab ID: 4113454)
 - Chloride
 - Fluoride

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PROJECT NARRATIVE

Project: Hammond AP-1

Pace Project No.: 92682927

Method: EPA 300.0 Rev 2.1 1993

Description: 300.0 IC Anions 28 Days

Client: Georgia Power- Hammond

Date: October 03, 2023

QC Batch: 793837

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92682397016,92682815002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Sulfate
- MSD (Lab ID: 4113453)
 - Chloride
 - Fluoride
- Sulfate
- MSD (Lab ID: 4113455)
 - Chloride
 - Fluoride
 - Sulfate

QC Batch: 794487

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92682998003,92683111001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4116656)
 - Chloride
 - Fluoride
 - Sulfate
- MS (Lab ID: 4116658)
 - Chloride
 - Sulfate
- MSD (Lab ID: 4116657)
 - Chloride
 - Fluoride
 - Sulfate
- MSD (Lab ID: 4116659)
 - Chloride
 - Sulfate

Additional Comments:

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

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

| Sample: HAM-HGWC-10 | | Lab ID: 92682398001 | | Collected: 08/10/23 17:03 | | Received: 08/11/23 13:12 | | Matrix: Water | |
|-------------------------------------|----------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 08/18/23 10:36 | 08/18/23 21:08 | 7439-89-6 | |
| Manganese | 0.33 | mg/L | 0.040 | 0.011 | 1 | 08/18/23 10:36 | 08/18/23 21:08 | 7439-96-5 | |
| Potassium | 2.2 | mg/L | 0.50 | 0.15 | 1 | 08/18/23 10:36 | 08/18/23 21:08 | 7440-09-7 | |
| Sodium | 9.4 | mg/L | 1.0 | 0.58 | 1 | 08/18/23 10:36 | 08/18/23 21:08 | 7440-23-5 | |
| Calcium | 155 | mg/L | 1.0 | 0.12 | 1 | 08/18/23 10:36 | 08/18/23 21:08 | 7440-70-2 | |
| Magnesium | 10.8 | mg/L | 0.050 | 0.012 | 1 | 08/18/23 10:36 | 08/18/23 21:08 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/16/23 14:27 | 08/22/23 16:36 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/16/23 14:27 | 08/22/23 16:36 | 7440-38-2 | |
| Barium | 0.045 | mg/L | 0.0050 | 0.00067 | 1 | 08/16/23 14:27 | 08/22/23 16:36 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/16/23 14:27 | 08/22/23 16:36 | 7440-41-7 | |
| Boron | 0.65 | mg/L | 0.20 | 0.043 | 5 | 08/16/23 14:27 | 08/23/23 19:19 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/16/23 14:27 | 08/22/23 16:36 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/16/23 14:27 | 08/22/23 16:36 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/16/23 14:27 | 08/22/23 16:36 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/16/23 14:27 | 08/22/23 16:36 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 08/16/23 14:27 | 08/22/23 16:36 | 7439-93-2 | |
| Molybdenum | 0.0014J | mg/L | 0.010 | 0.00074 | 1 | 08/16/23 14:27 | 08/22/23 16:36 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/16/23 14:27 | 08/22/23 16:36 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/16/23 14:27 | 08/22/23 16:36 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 10:15 | 08/22/23 15:20 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 504 | mg/L | 25.0 | 25.0 | 1 | | 08/16/23 14:51 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 270 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 11:41 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 11:41 | | |
| Alkalinity, Total as CaCO3 | 270 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 11:41 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:41 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 13.4 | mg/L | 1.0 | 0.60 | 1 | | 08/15/23 21:47 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-HGWC-10 Lab ID: 92682398001 Collected: 08/10/23 17:03 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|---------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.050J | mg/L | 0.10 | 0.050 | 1 | | 08/15/23 21:47 | 16984-48-8 | |
| Sulfate | 128 | mg/L | 3.0 | 1.5 | 3 | | 08/16/23 09:02 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

| Sample: HAM-HGWC-11 Lab ID: 92682398002 Collected: 08/10/23 11:31 Received: 08/11/23 13:12 Matrix: Water | | | | | | | | | |
|--|----------|-------|--------------|----------|----|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 08/16/23 11:06 | 08/17/23 21:31 | 7439-96-5 | |
| Sodium | 5.9 | mg/L | 1.0 | 0.58 | 1 | 08/16/23 11:06 | 08/17/23 21:31 | 7440-23-5 | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 08/16/23 11:06 | 08/18/23 15:22 | 7439-89-6 | |
| Potassium | 2.6 | mg/L | 0.50 | 0.15 | 1 | 08/16/23 11:06 | 08/18/23 15:22 | 7440-09-7 | |
| Calcium | 100 | mg/L | 1.0 | 0.12 | 1 | 08/16/23 11:06 | 08/18/23 15:22 | 7440-70-2 | M1 |
| Magnesium | 11.8 | mg/L | 0.050 | 0.012 | 1 | 08/16/23 11:06 | 08/18/23 15:22 | 7439-95-4 | M1 |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/16/23 14:27 | 08/22/23 16:47 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/16/23 14:27 | 08/22/23 16:47 | 7440-38-2 | |
| Barium | 0.027 | mg/L | 0.0050 | 0.00067 | 1 | 08/16/23 14:27 | 08/22/23 16:47 | 7440-39-3 | |
| Beryllium | 0.00069J | mg/L | 0.00050 | 0.000054 | 1 | 08/16/23 14:27 | 08/22/23 16:47 | 7440-41-7 | |
| Boron | 0.44 | mg/L | 0.40 | 0.086 | 10 | 08/16/23 14:27 | 08/23/23 19:42 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/16/23 14:27 | 08/22/23 16:47 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/16/23 14:27 | 08/22/23 16:47 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/16/23 14:27 | 08/22/23 16:47 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/16/23 14:27 | 08/22/23 16:47 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 08/16/23 14:27 | 08/22/23 16:47 | 7439-93-2 | |
| Molybdenum | 0.014 | mg/L | 0.010 | 0.00074 | 1 | 08/16/23 14:27 | 08/22/23 16:47 | 7439-98-7 | |
| Selenium | 0.0089 | mg/L | 0.0050 | 0.0014 | 1 | 08/16/23 14:27 | 08/22/23 16:47 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/16/23 14:27 | 08/22/23 16:47 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 10:15 | 08/22/23 15:30 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 438 | mg/L | 25.0 | 25.0 | 1 | | 08/16/23 14:51 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 80.0 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 20:59 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 20:59 | | |
| Alkalinity, Total as CaCO ₃ | 80.0 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 20:59 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:42 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 6.5 | mg/L | 1.0 | 0.60 | 1 | | 08/15/23 23:28 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1
 Pace Project No.: 92682927

| Sample: HAM-HGWC-11 | | Lab ID: 92682398002 | | Collected: 08/10/23 11:31 | | Received: 08/11/23 13:12 | | Matrix: Water | |
|--------------------------------|-------------|---|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Fluoride | 0.15 | mg/L | 0.10 | 0.050 | 1 | | 08/15/23 23:28 | 16984-48-8 | |
| Sulfate | 190 | mg/L | 4.0 | 2.0 | 4 | | 08/16/23 10:13 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-HGWC-12 Lab ID: 92682398003 Collected: 08/10/23 11:10 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------|-----|----|----------|----------|---------|------|
| | | | Limit | MDL | DF | | | | |

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|-----------|--------|------|-------|-------|---|----------------|----------------|-----------|--|
| Manganese | 1.5 | mg/L | 0.040 | 0.011 | 1 | 08/16/23 11:06 | 08/17/23 22:00 | 7439-96-5 | |
| Sodium | 8.3 | mg/L | 1.0 | 0.58 | 1 | 08/16/23 11:06 | 08/17/23 22:00 | 7440-23-5 | |
| Iron | 0.028J | mg/L | 0.040 | 0.025 | 1 | 08/16/23 11:06 | 08/18/23 16:28 | 7439-89-6 | |
| Potassium | 7.4 | mg/L | 0.50 | 0.15 | 1 | 08/16/23 11:06 | 08/18/23 16:28 | 7440-09-7 | |
| Calcium | 156 | mg/L | 1.0 | 0.12 | 1 | 08/16/23 11:06 | 08/18/23 16:28 | 7440-70-2 | |
| Magnesium | 14.7 | mg/L | 0.050 | 0.012 | 1 | 08/16/23 11:06 | 08/18/23 16:28 | 7439-95-4 | |

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|------------|---------|------|---------|----------|----|----------------|----------------|-----------|--|
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/16/23 14:27 | 08/22/23 16:54 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/16/23 14:27 | 08/22/23 16:54 | 7440-38-2 | |
| Barium | 0.075 | mg/L | 0.0050 | 0.00067 | 1 | 08/16/23 14:27 | 08/22/23 16:54 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/16/23 14:27 | 08/22/23 16:54 | 7440-41-7 | |
| Boron | 1.4 | mg/L | 0.40 | 0.086 | 10 | 08/16/23 14:27 | 08/23/23 19:54 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/16/23 14:27 | 08/22/23 16:54 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/16/23 14:27 | 08/22/23 16:54 | 7440-47-3 | |
| Cobalt | 0.0012J | mg/L | 0.0050 | 0.00039 | 1 | 08/16/23 14:27 | 08/22/23 16:54 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/16/23 14:27 | 08/22/23 16:54 | 7439-92-1 | |
| Lithium | 0.0075J | mg/L | 0.030 | 0.00073 | 1 | 08/16/23 14:27 | 08/22/23 16:54 | 7439-93-2 | |
| Molybdenum | 0.050 | mg/L | 0.010 | 0.00074 | 1 | 08/16/23 14:27 | 08/22/23 16:54 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/16/23 14:27 | 08/22/23 16:54 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/16/23 14:27 | 08/22/23 16:54 | 7440-28-0 | |

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|---------|----|------|---------|---------|---|----------------|----------------|-----------|--|
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 10:15 | 08/22/23 15:33 | 7439-97-6 | |
|---------|----|------|---------|---------|---|----------------|----------------|-----------|--|

2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|------------------------|-----|------|------|------|---|--|----------------|--|--|
| Total Dissolved Solids | 683 | mg/L | 25.0 | 25.0 | 1 | | 08/16/23 14:52 | | |
|------------------------|-----|------|------|------|---|--|----------------|--|--|

2320B Alkalinity

Analytical Method: SM 2320B-2011
Pace Analytical Services - Asheville

| | | | | | | | | | |
|--------------------------------|-----|------|-----|-----|---|--|----------------|--|--|
| Alkalinity,Bicarbonate (CaCO3) | 199 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 21:16 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 21:16 | | |
| Alkalinity, Total as CaCO3 | 199 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 21:16 | | |

4500S2D Sulfide Water

Analytical Method: SM 4500-S2D-2011
Pace Analytical Services - Asheville

| | | | | | | | | | |
|---------|----|------|------|-------|---|--|----------------|------------|--|
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:43 | 18496-25-8 | |
|---------|----|------|------|-------|---|--|----------------|------------|--|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|------|------|-----|------|---|--|----------------|------------|--|
| Chloride | 30.6 | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 00:26 | 16887-00-6 | |
|----------|------|------|-----|------|---|--|----------------|------------|--|

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-HGWC-12 Lab ID: 92682398003 Collected: 08/10/23 11:10 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.17 | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 00:26 | 16984-48-8 | |
| Sulfate | 209 | mg/L | 5.0 | 2.5 | 5 | | 08/16/23 10:42 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

| Sample: HAM-MW-5 | Lab ID: 92682398004 | Collected: 08/10/23 11:42 | Received: 08/11/23 13:12 | Matrix: Water | | | | | |
|--|---------------------|---------------------------|--------------------------|---------------|----|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 08/16/23 11:06 | 08/18/23 16:33 | 7439-89-6 | |
| Potassium | 1.0 | mg/L | 0.50 | 0.15 | 1 | 08/16/23 11:06 | 08/18/23 16:33 | 7440-09-7 | |
| Calcium | 99.7 | mg/L | 1.0 | 0.12 | 1 | 08/16/23 11:06 | 08/18/23 16:33 | 7440-70-2 | |
| Magnesium | 10.9 | mg/L | 0.050 | 0.012 | 1 | 08/16/23 11:06 | 08/18/23 16:33 | 7439-95-4 | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 08/16/23 11:06 | 08/17/23 22:05 | 7439-96-5 | |
| Sodium | 19.5 | mg/L | 1.0 | 0.58 | 1 | 08/16/23 11:06 | 08/17/23 22:05 | 7440-23-5 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/16/23 14:27 | 08/22/23 16:58 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/16/23 14:27 | 08/22/23 16:58 | 7440-38-2 | |
| Barium | 0.048 | mg/L | 0.0050 | 0.00067 | 1 | 08/16/23 14:27 | 08/22/23 16:58 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/16/23 14:27 | 08/22/23 16:58 | 7440-41-7 | |
| Boron | 0.037J | mg/L | 0.040 | 0.0086 | 1 | 08/16/23 14:27 | 08/23/23 13:29 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/16/23 14:27 | 08/22/23 16:58 | 7440-43-9 | |
| Chromium | 0.0020J | mg/L | 0.0050 | 0.0011 | 1 | 08/16/23 14:27 | 08/22/23 16:58 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/16/23 14:27 | 08/22/23 16:58 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/16/23 14:27 | 08/22/23 16:58 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 08/16/23 14:27 | 08/22/23 16:58 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 08/16/23 14:27 | 08/22/23 16:58 | 7439-98-7 | |
| Selenium | 0.0020J | mg/L | 0.0050 | 0.0014 | 1 | 08/16/23 14:27 | 08/22/23 16:58 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/16/23 14:27 | 08/22/23 16:58 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 10:15 | 08/22/23 15:35 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 423 | mg/L | 25.0 | 25.0 | 1 | | 08/16/23 14:52 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 179 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 21:28 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 21:28 | | |
| Alkalinity, Total as CaCO3 | 179 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 21:28 | | M1 |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:43 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 0.86J | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 00:40 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-MW-5 Lab ID: 92682398004 Collected: 08/10/23 11:42 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|---------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.066J | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 00:40 | 16984-48-8 | |
| Sulfate | 137 | mg/L | 3.0 | 1.5 | 3 | | 08/16/23 10:56 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

| Sample: HAM-MW-6 | | Lab ID: 92682398005 | | Collected: 08/10/23 14:22 | | Received: 08/11/23 13:12 | | Matrix: Water | |
|-------------------------------------|----------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Calcium | 179 | mg/L | 5.0 | 0.61 | 5 | 08/16/23 11:06 | 08/18/23 16:43 | 7440-70-2 | |
| Manganese | 0.43 | mg/L | 0.040 | 0.011 | 1 | 08/16/23 11:06 | 08/17/23 22:10 | 7439-96-5 | |
| Sodium | 13.0 | mg/L | 1.0 | 0.58 | 1 | 08/16/23 11:06 | 08/17/23 22:10 | 7440-23-5 | |
| Iron | 0.23 | mg/L | 0.040 | 0.025 | 1 | 08/16/23 11:06 | 08/18/23 16:38 | 7439-89-6 | |
| Potassium | 1.3 | mg/L | 0.50 | 0.15 | 1 | 08/16/23 11:06 | 08/18/23 16:38 | 7440-09-7 | |
| Magnesium | 13.4 | mg/L | 0.050 | 0.012 | 1 | 08/16/23 11:06 | 08/18/23 16:38 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/16/23 14:27 | 08/22/23 17:16 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/16/23 14:27 | 08/22/23 17:16 | 7440-38-2 | |
| Barium | 0.066 | mg/L | 0.0050 | 0.00067 | 1 | 08/16/23 14:27 | 08/22/23 17:16 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/16/23 14:27 | 08/22/23 17:16 | 7440-41-7 | |
| Boron | 0.65 | mg/L | 0.20 | 0.043 | 5 | 08/16/23 14:27 | 08/23/23 20:00 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/16/23 14:27 | 08/22/23 17:16 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/16/23 14:27 | 08/22/23 17:16 | 7440-47-3 | |
| Cobalt | 0.00041J | mg/L | 0.0050 | 0.00039 | 1 | 08/16/23 14:27 | 08/22/23 17:16 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/16/23 14:27 | 08/22/23 17:16 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 08/16/23 14:27 | 08/22/23 17:16 | 7439-93-2 | |
| Molybdenum | 0.0026J | mg/L | 0.010 | 0.00074 | 1 | 08/16/23 14:27 | 08/22/23 17:16 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/16/23 14:27 | 08/22/23 17:16 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/16/23 14:27 | 08/22/23 17:16 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 10:15 | 08/22/23 15:38 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 626 | mg/L | 25.0 | 25.0 | 1 | | 08/16/23 14:52 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 298 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 11:50 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 11:50 | | |
| Alkalinity, Total as CaCO3 | 298 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 11:50 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:44 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 26.9 | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 00:55 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-MW-6 Lab ID: 92682398005 Collected: 08/10/23 14:22 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|--------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.053J | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 00:55 | 16984-48-8 | |
| Sulfate | 174 | mg/L | 4.0 | 2.0 | 4 | | 08/16/23 11:10 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

| Sample: HAM-MW-7 | | Lab ID: 92682398006 | | Collected: 08/10/23 12:56 | | Received: 08/11/23 13:12 | | Matrix: Water | |
|-------------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 08/16/23 11:06 | 08/17/23 22:15 | 7439-96-5 | |
| Sodium | 7.1 | mg/L | 1.0 | 0.58 | 1 | 08/16/23 11:06 | 08/17/23 22:15 | 7440-23-5 | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 08/16/23 11:06 | 08/18/23 16:48 | 7439-89-6 | |
| Potassium | 0.74 | mg/L | 0.50 | 0.15 | 1 | 08/16/23 11:06 | 08/18/23 16:48 | 7440-09-7 | |
| Calcium | 81.2 | mg/L | 1.0 | 0.12 | 1 | 08/16/23 11:06 | 08/18/23 16:48 | 7440-70-2 | |
| Magnesium | 6.9 | mg/L | 0.050 | 0.012 | 1 | 08/16/23 11:06 | 08/18/23 16:48 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/16/23 14:27 | 08/22/23 17:19 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/16/23 14:27 | 08/22/23 17:19 | 7440-38-2 | |
| Barium | 0.059 | mg/L | 0.0050 | 0.00067 | 1 | 08/16/23 14:27 | 08/22/23 17:19 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/16/23 14:27 | 08/22/23 17:19 | 7440-41-7 | |
| Boron | 0.13 | mg/L | 0.040 | 0.0086 | 1 | 08/16/23 14:27 | 08/24/23 14:52 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/16/23 14:27 | 08/22/23 17:19 | 7440-43-9 | |
| Chromium | 0.0015J | mg/L | 0.0050 | 0.0011 | 1 | 08/16/23 14:27 | 08/22/23 17:19 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/16/23 14:27 | 08/22/23 17:19 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/16/23 14:27 | 08/22/23 17:19 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 08/16/23 14:27 | 08/22/23 17:19 | 7439-93-2 | |
| Molybdenum | 0.0022J | mg/L | 0.010 | 0.00074 | 1 | 08/16/23 14:27 | 08/22/23 17:19 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/16/23 14:27 | 08/22/23 17:19 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/16/23 14:27 | 08/22/23 17:19 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 10:15 | 08/22/23 15:46 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 305 | mg/L | 25.0 | 25.0 | 1 | | 08/16/23 14:53 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 175 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 15:32 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 15:32 | | |
| Alkalinity, Total as CaCO3 | 175 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 15:32 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:44 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 3.3 | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 01:09 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-MW-7 Lab ID: 92682398006 Collected: 08/10/23 12:56 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 01:09 | 16984-48-8 | |
| Sulfate | 67.3 | mg/L | 1.0 | 0.50 | 1 | | 08/16/23 01:09 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

| Sample: HAM-MW-19 | | Lab ID: 92682398007 | | Collected: 08/10/23 15:03 | | Received: 08/11/23 13:12 | | Matrix: Water | |
|-------------------------------------|----------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Manganese | 3.2 | mg/L | 0.040 | 0.011 | 1 | 08/16/23 11:06 | 08/17/23 22:19 | 7439-96-5 | |
| Sodium | 5.5 | mg/L | 1.0 | 0.58 | 1 | 08/16/23 11:06 | 08/17/23 22:19 | 7440-23-5 | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 08/16/23 11:06 | 08/18/23 16:52 | 7439-89-6 | |
| Potassium | 3.1 | mg/L | 0.50 | 0.15 | 1 | 08/16/23 11:06 | 08/18/23 16:52 | 7440-09-7 | |
| Calcium | 127 | mg/L | 1.0 | 0.12 | 1 | 08/16/23 11:06 | 08/18/23 16:52 | 7440-70-2 | |
| Magnesium | 12.5 | mg/L | 0.050 | 0.012 | 1 | 08/16/23 11:06 | 08/18/23 16:52 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/17/23 10:25 | 08/22/23 19:53 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/17/23 10:25 | 08/22/23 19:53 | 7440-38-2 | |
| Barium | 0.032 | mg/L | 0.0050 | 0.00067 | 1 | 08/17/23 10:25 | 08/22/23 19:53 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/17/23 10:25 | 08/22/23 19:53 | 7440-41-7 | |
| Boron | 0.53 | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 10:25 | 08/22/23 19:53 | 7440-42-8 | |
| Cadmium | 0.00018J | mg/L | 0.00050 | 0.00011 | 1 | 08/17/23 10:25 | 08/22/23 19:53 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/17/23 10:25 | 08/23/23 17:02 | 7440-47-3 | |
| Cobalt | 0.027 | mg/L | 0.0050 | 0.00039 | 1 | 08/17/23 10:25 | 08/22/23 19:53 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/17/23 10:25 | 08/22/23 19:53 | 7439-92-1 | |
| Lithium | 0.011J | mg/L | 0.030 | 0.00073 | 1 | 08/17/23 10:25 | 08/22/23 19:53 | 7439-93-2 | |
| Molybdenum | 0.033 | mg/L | 0.010 | 0.00074 | 1 | 08/17/23 10:25 | 08/22/23 19:53 | 7439-98-7 | |
| Selenium | 0.0038J | mg/L | 0.0050 | 0.0014 | 1 | 08/17/23 10:25 | 08/22/23 19:53 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/17/23 10:25 | 08/22/23 19:53 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 10:15 | 08/22/23 15:49 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 524 | mg/L | 25.0 | 25.0 | 1 | | 08/16/23 14:55 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 133 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 15:43 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 15:43 | | |
| Alkalinity, Total as CaCO3 | 133 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 15:43 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:45 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 11.2 | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 01:23 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-MW-19 Lab ID: 92682398007 Collected: 08/10/23 15:03 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Fluoride | 0.14 | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 01:23 | 16984-48-8 | |
| Sulfate | 210 | mg/L | 5.0 | 2.5 | 5 | | 08/16/23 11:53 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

| Sample: HAM-MW-20 | | Lab ID: 92682398008 | | Collected: 08/10/23 10:19 | Received: 08/11/23 13:12 | Matrix: Water | | | |
|-------------------------------------|---------|--|--------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 2.7 | mg/L | 0.040 | 0.025 | 1 | 08/16/23 11:06 | 08/18/23 16:57 | 7439-89-6 | |
| Potassium | 0.26J | mg/L | 0.50 | 0.15 | 1 | 08/16/23 11:06 | 08/18/23 16:57 | 7440-09-7 | |
| Calcium | 123 | mg/L | 1.0 | 0.12 | 1 | 08/16/23 11:06 | 08/18/23 16:57 | 7440-70-2 | |
| Magnesium | 8.8 | mg/L | 0.050 | 0.012 | 1 | 08/16/23 11:06 | 08/18/23 16:57 | 7439-95-4 | |
| Manganese | 0.13 | mg/L | 0.040 | 0.011 | 1 | 08/16/23 11:06 | 08/17/23 22:24 | 7439-96-5 | |
| Sodium | 12.2 | mg/L | 1.0 | 0.58 | 1 | 08/16/23 11:06 | 08/17/23 22:24 | 7440-23-5 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/17/23 10:25 | 08/22/23 19:59 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/17/23 10:25 | 08/22/23 19:59 | 7440-38-2 | |
| Barium | 0.093 | mg/L | 0.0050 | 0.00067 | 1 | 08/17/23 10:25 | 08/22/23 19:59 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/17/23 10:25 | 08/22/23 19:59 | 7440-41-7 | |
| Boron | 0.10 | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 10:25 | 08/22/23 19:59 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/17/23 10:25 | 08/22/23 19:59 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/17/23 10:25 | 08/23/23 17:13 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/17/23 10:25 | 08/22/23 19:59 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/17/23 10:25 | 08/22/23 19:59 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 08/17/23 10:25 | 08/22/23 19:59 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 08/17/23 10:25 | 08/22/23 19:59 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/17/23 10:25 | 08/22/23 19:59 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/17/23 10:25 | 08/22/23 19:59 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 10:15 | 08/22/23 15:51 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 429 | mg/L | 25.0 | 25.0 | 1 | | 08/16/23 14:57 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 249 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 19:31 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 19:31 | | |
| Alkalinity, Total as CaCO3 | 249 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 19:31 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | 0.024J | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:46 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 28.4 | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 01:38 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-MW-20 **Lab ID: 92682398008** Collected: 08/10/23 10:19 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 01:38 | 16984-48-8 | |
| Sulfate | 100 | mg/L | 1.0 | 0.50 | 1 | | 08/16/23 01:38 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

| Sample: HAM-MW-25D | | Lab ID: 92682398009 | | Collected: 08/10/23 12:57 | | Received: 08/11/23 13:12 | | Matrix: Water | |
|-------------------------------------|----------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 1.9 | mg/L | 0.040 | 0.025 | 1 | 08/16/23 11:06 | 08/18/23 17:02 | 7439-89-6 | |
| Potassium | 0.47J | mg/L | 0.50 | 0.15 | 1 | 08/16/23 11:06 | 08/18/23 17:02 | 7440-09-7 | |
| Calcium | 86.1 | mg/L | 1.0 | 0.12 | 1 | 08/16/23 11:06 | 08/18/23 17:02 | 7440-70-2 | |
| Magnesium | 8.8 | mg/L | 0.050 | 0.012 | 1 | 08/16/23 11:06 | 08/18/23 17:02 | 7439-95-4 | |
| Manganese | 0.016J | mg/L | 0.040 | 0.011 | 1 | 08/16/23 11:06 | 08/17/23 22:29 | 7439-96-5 | |
| Sodium | 111 | mg/L | 1.0 | 0.58 | 1 | 08/16/23 11:06 | 08/17/23 22:29 | 7440-23-5 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/17/23 10:25 | 08/22/23 20:05 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/17/23 10:25 | 08/22/23 20:05 | 7440-38-2 | |
| Barium | 0.71 | mg/L | 0.0050 | 0.00067 | 1 | 08/17/23 10:25 | 08/22/23 20:05 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/17/23 10:25 | 08/22/23 20:05 | 7440-41-7 | |
| Boron | 0.31 | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 10:25 | 08/22/23 20:05 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/17/23 10:25 | 08/22/23 20:05 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/17/23 10:25 | 08/23/23 17:16 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/17/23 10:25 | 08/22/23 20:05 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/17/23 10:25 | 08/22/23 20:05 | 7439-92-1 | |
| Lithium | 0.038 | mg/L | 0.030 | 0.00073 | 1 | 08/17/23 10:25 | 08/22/23 20:05 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 08/17/23 10:25 | 08/22/23 20:05 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/17/23 10:25 | 08/22/23 20:05 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/17/23 10:25 | 08/22/23 20:05 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | 0.00013J | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 11:20 | 08/22/23 16:38 | 7439-97-6 | M1 |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 325 | mg/L | 25.0 | 25.0 | 1 | | 08/16/23 14:57 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 304 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 19:40 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 19:40 | | |
| Alkalinity, Total as CaCO3 | 304 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 19:40 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | 0.16 | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:48 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 13.6 | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 01:52 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-MW-25D **Lab ID: 92682398009** Collected: 08/10/23 12:57 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 1.5 | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 01:52 | 16984-48-8 | |
| Sulfate | 0.62J | mg/L | 1.0 | 0.50 | 1 | | 08/16/23 01:52 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

| Sample: HAM-MW-29 | | Lab ID: 92682398010 | | Collected: 08/10/23 16:15 | | Received: 08/11/23 13:12 | | Matrix: Water | |
|--|----------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Manganese | 0.86 | mg/L | 0.040 | 0.011 | 1 | 08/16/23 11:06 | 08/17/23 22:44 | 7439-96-5 | |
| Potassium | 1.2 | mg/L | 0.50 | 0.15 | 1 | 08/16/23 11:06 | 08/17/23 22:44 | 7440-09-7 | |
| Sodium | 12.7 | mg/L | 1.0 | 0.58 | 1 | 08/16/23 11:06 | 08/17/23 22:44 | 7440-23-5 | |
| Magnesium | 11.9 | mg/L | 0.050 | 0.012 | 1 | 08/16/23 11:06 | 08/17/23 22:44 | 7439-95-4 | |
| Iron | 0.049 | mg/L | 0.040 | 0.025 | 1 | 08/16/23 11:06 | 08/18/23 17:53 | 7439-89-6 | |
| Calcium | 147 | mg/L | 1.0 | 0.12 | 1 | 08/16/23 11:06 | 08/18/23 17:53 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/17/23 10:25 | 08/22/23 20:11 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/17/23 10:25 | 08/22/23 20:11 | 7440-38-2 | |
| Barium | 0.066 | mg/L | 0.0050 | 0.00067 | 1 | 08/17/23 10:25 | 08/22/23 20:11 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/17/23 10:25 | 08/22/23 20:11 | 7440-41-7 | |
| Boron | 1.1 | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 10:25 | 08/22/23 20:11 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/17/23 10:25 | 08/22/23 20:11 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/17/23 10:25 | 08/23/23 17:20 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/17/23 10:25 | 08/22/23 20:11 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/17/23 10:25 | 08/22/23 20:11 | 7439-92-1 | |
| Lithium | 0.0019J | mg/L | 0.030 | 0.00073 | 1 | 08/17/23 10:25 | 08/22/23 20:11 | 7439-93-2 | |
| Molybdenum | 0.0030J | mg/L | 0.010 | 0.00074 | 1 | 08/17/23 10:25 | 08/22/23 20:11 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/17/23 10:25 | 08/22/23 20:11 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/17/23 10:25 | 08/22/23 20:11 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | 0.00017J | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 11:20 | 08/22/23 17:12 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 564 | mg/L | 25.0 | 25.0 | 1 | | 08/16/23 15:00 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 208 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 16:13 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 16:13 | | |
| Alkalinity, Total as CaCO3 | 208 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 16:13 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:48 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 56.1 | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 02:35 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1
 Pace Project No.: 92682927

| Sample: HAM-MW-29 | | Lab ID: 92682398010 | | Collected: 08/10/23 16:15 | Received: 08/11/23 13:12 | Matrix: Water | | | |
|--------------------------------|---------|---|--------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 02:35 | 16984-48-8 | |
| Sulfate | 134 | mg/L | 3.0 | 1.5 | 3 | | 08/16/23 12:08 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

| Sample: HAM-HGWC-7 | | Lab ID: 92682397009 | | Collected: 08/12/23 14:35 | | Received: 08/14/23 11:15 | | Matrix: Water | |
|--|----------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.073 | mg/L | 0.040 | 0.025 | 1 | 08/18/23 10:59 | 08/18/23 23:00 | 7439-89-6 | |
| Manganese | 0.20 | mg/L | 0.040 | 0.011 | 1 | 08/18/23 10:59 | 08/18/23 23:00 | 7439-96-5 | |
| Potassium | 2.1 | mg/L | 0.50 | 0.15 | 1 | 08/18/23 10:59 | 08/18/23 23:00 | 7440-09-7 | |
| Sodium | 12.7 | mg/L | 1.0 | 0.58 | 1 | 08/18/23 10:59 | 08/18/23 23:00 | 7440-23-5 | |
| Calcium | 101 | mg/L | 1.0 | 0.12 | 1 | 08/18/23 10:59 | 08/18/23 23:00 | 7440-70-2 | |
| Magnesium | 9.6 | mg/L | 0.050 | 0.012 | 1 | 08/18/23 10:59 | 08/18/23 23:00 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/17/23 11:45 | 08/22/23 17:02 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/17/23 11:45 | 08/22/23 17:02 | 7440-38-2 | |
| Barium | 0.060 | mg/L | 0.0050 | 0.00067 | 1 | 08/17/23 11:45 | 08/22/23 17:02 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/17/23 11:45 | 08/22/23 17:02 | 7440-41-7 | |
| Boron | 0.82 | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 11:45 | 08/22/23 17:02 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/17/23 11:45 | 08/22/23 17:02 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/17/23 11:45 | 08/22/23 17:02 | 7440-47-3 | |
| Cobalt | 0.00061J | mg/L | 0.0050 | 0.00039 | 1 | 08/17/23 11:45 | 08/22/23 17:02 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/17/23 11:45 | 08/22/23 17:02 | 7439-92-1 | |
| Lithium | 0.0023J | mg/L | 0.030 | 0.00073 | 1 | 08/17/23 11:45 | 08/22/23 17:02 | 7439-93-2 | |
| Molybdenum | 0.033 | mg/L | 0.010 | 0.00074 | 1 | 08/17/23 11:45 | 08/22/23 17:02 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/17/23 11:45 | 08/22/23 17:02 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/17/23 11:45 | 08/22/23 17:02 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 10:15 | 08/22/23 15:54 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 378 | mg/L | 25.0 | 25.0 | 1 | | 08/16/23 15:00 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 210 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 21:35 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 21:35 | | |
| Alkalinity, Total as CaCO3 | 210 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 21:35 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/18/23 04:35 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 33.3 | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 13:51 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-HGWC-7 Lab ID: 92682397009 Collected: 08/12/23 14:35 Received: 08/14/23 11:15 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|---------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.071J | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 13:51 | 16984-48-8 | |
| Sulfate | 84.2 | mg/L | 1.0 | 0.50 | 1 | | 08/16/23 13:51 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

| Sample: HAM-HGWC-8 | | Lab ID: 92682397010 | | Collected: 08/12/23 09:32 | | Received: 08/14/23 11:15 | | Matrix: Water | |
|-------------------------------------|----------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 0.058 | mg/L | 0.040 | 0.025 | 1 | 08/18/23 10:59 | 08/18/23 23:05 | 7439-89-6 | |
| Manganese | 0.30 | mg/L | 0.040 | 0.011 | 1 | 08/18/23 10:59 | 08/18/23 23:05 | 7439-96-5 | |
| Potassium | 7.6 | mg/L | 0.50 | 0.15 | 1 | 08/18/23 10:59 | 08/18/23 23:05 | 7440-09-7 | |
| Sodium | 9.7 | mg/L | 1.0 | 0.58 | 1 | 08/18/23 10:59 | 08/18/23 23:05 | 7440-23-5 | |
| Calcium | 122 | mg/L | 1.0 | 0.12 | 1 | 08/18/23 10:59 | 08/18/23 23:05 | 7440-70-2 | |
| Magnesium | 17.3 | mg/L | 0.050 | 0.012 | 1 | 08/18/23 10:59 | 08/18/23 23:05 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/17/23 11:45 | 08/22/23 17:08 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/17/23 11:45 | 08/22/23 17:08 | 7440-38-2 | |
| Barium | 0.052 | mg/L | 0.0050 | 0.00067 | 1 | 08/17/23 11:45 | 08/22/23 17:08 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/17/23 11:45 | 08/22/23 17:08 | 7440-41-7 | |
| Boron | 1.7 | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 11:45 | 08/22/23 17:08 | 7440-42-8 | |
| Cadmium | 0.00044J | mg/L | 0.00050 | 0.00011 | 1 | 08/17/23 11:45 | 08/22/23 17:08 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/17/23 11:45 | 08/22/23 17:08 | 7440-47-3 | |
| Cobalt | 0.0016J | mg/L | 0.0050 | 0.00039 | 1 | 08/17/23 11:45 | 08/22/23 17:08 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/17/23 11:45 | 08/22/23 17:08 | 7439-92-1 | |
| Lithium | 0.0014J | mg/L | 0.030 | 0.00073 | 1 | 08/17/23 11:45 | 08/22/23 17:08 | 7439-93-2 | |
| Molybdenum | 0.34 | mg/L | 0.010 | 0.00074 | 1 | 08/17/23 11:45 | 08/22/23 17:08 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/17/23 11:45 | 08/22/23 17:08 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/17/23 11:45 | 08/22/23 17:08 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 10:15 | 08/22/23 15:56 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 564 | mg/L | 25.0 | 25.0 | 1 | | 08/18/23 17:06 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 145 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 21:47 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 21:47 | | |
| Alkalinity, Total as CaCO3 | 145 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 21:47 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/18/23 04:35 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 53.1 | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 14:06 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-HGWC-8 Lab ID: 92682397010 Collected: 08/12/23 09:32 Received: 08/14/23 11:15 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.59 | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 14:06 | 16984-48-8 | |
| Sulfate | 170 | mg/L | 4.0 | 2.0 | 4 | | 08/17/23 05:08 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-HGWC-13 Lab ID: 92682397011 Collected: 08/12/23 12:05 Received: 08/14/23 11:15 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|----------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 6.9 | mg/L | 0.040 | 0.025 | 1 | 08/18/23 10:59 | 08/18/23 23:10 | 7439-89-6 | |
| Manganese | 9.0 | mg/L | 0.040 | 0.011 | 1 | 08/18/23 10:59 | 08/18/23 23:10 | 7439-96-5 | |
| Potassium | 5.9 | mg/L | 0.50 | 0.15 | 1 | 08/18/23 10:59 | 08/18/23 23:10 | 7440-09-7 | |
| Sodium | 6.9 | mg/L | 1.0 | 0.58 | 1 | 08/18/23 10:59 | 08/18/23 23:10 | 7440-23-5 | |
| Calcium | 172 | mg/L | 1.0 | 0.12 | 1 | 08/18/23 10:59 | 08/18/23 23:10 | 7440-70-2 | |
| Magnesium | 19.2 | mg/L | 0.050 | 0.012 | 1 | 08/18/23 10:59 | 08/18/23 23:10 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/17/23 11:45 | 08/22/23 17:14 | 7440-36-0 | |
| Arsenic | 0.54 | mg/L | 0.010 | 0.0037 | 1 | 08/17/23 11:45 | 08/22/23 17:14 | 7440-38-2 | |
| Barium | 0.057 | mg/L | 0.0050 | 0.00067 | 1 | 08/17/23 11:45 | 08/22/23 17:14 | 7440-39-3 | |
| Beryllium | 0.00010J | mg/L | 0.00050 | 0.000054 | 1 | 08/17/23 11:45 | 08/22/23 17:14 | 7440-41-7 | |
| Boron | 1.0 | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 11:45 | 08/22/23 17:14 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/17/23 11:45 | 08/22/23 17:14 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/17/23 11:45 | 08/22/23 17:14 | 7440-47-3 | |
| Cobalt | 0.018 | mg/L | 0.0050 | 0.00039 | 1 | 08/17/23 11:45 | 08/22/23 17:14 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/17/23 11:45 | 08/22/23 17:14 | 7439-92-1 | |
| Lithium | 0.051 | mg/L | 0.030 | 0.00073 | 1 | 08/17/23 11:45 | 08/22/23 17:14 | 7439-93-2 | |
| Molybdenum | 0.016 | mg/L | 0.010 | 0.00074 | 1 | 08/17/23 11:45 | 08/22/23 17:14 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/17/23 11:45 | 08/22/23 17:14 | 7782-49-2 | |
| Thallium | 0.00028J | mg/L | 0.0010 | 0.00018 | 1 | 08/17/23 11:45 | 08/22/23 17:14 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 10:15 | 08/22/23 15:59 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 803 | mg/L | 25.0 | 25.0 | 1 | | 08/18/23 17:06 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 145 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 21:57 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 21:57 | | |
| Alkalinity, Total as CaCO3 | 145 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 21:57 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/18/23 04:36 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 15.3 | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 14:20 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-HGWC-13 Lab ID: 92682397011 Collected: 08/12/23 12:05 Received: 08/14/23 11:15 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.32 | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 14:20 | 16984-48-8 | |
| Sulfate | 347 | mg/L | 7.0 | 3.5 | 7 | | 08/17/23 05:51 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

| Sample: HAM-MW-24D | | Lab ID: 92682397012 | | Collected: 08/12/23 10:15 | | Received: 08/14/23 11:15 | | Matrix: Water | |
|-------------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 0.19 | mg/L | 0.040 | 0.025 | 1 | 08/18/23 10:59 | 08/18/23 23:15 | 7439-89-6 | |
| Manganese | 0.062 | mg/L | 0.040 | 0.011 | 1 | 08/18/23 10:59 | 08/18/23 23:15 | 7439-96-5 | |
| Potassium | 0.68 | mg/L | 0.50 | 0.15 | 1 | 08/18/23 10:59 | 08/18/23 23:15 | 7440-09-7 | |
| Sodium | 12.5 | mg/L | 1.0 | 0.58 | 1 | 08/18/23 10:59 | 08/18/23 23:15 | 7440-23-5 | |
| Calcium | 105 | mg/L | 1.0 | 0.12 | 1 | 08/18/23 10:59 | 08/18/23 23:15 | 7440-70-2 | |
| Magnesium | 6.3 | mg/L | 0.050 | 0.012 | 1 | 08/18/23 10:59 | 08/18/23 23:15 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/17/23 11:45 | 08/22/23 17:19 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/17/23 11:45 | 08/22/23 17:19 | 7440-38-2 | |
| Barium | 0.053 | mg/L | 0.0050 | 0.00067 | 1 | 08/17/23 11:45 | 08/22/23 17:19 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/17/23 11:45 | 08/22/23 17:19 | 7440-41-7 | |
| Boron | 0.55 | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 11:45 | 08/22/23 17:19 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/17/23 11:45 | 08/22/23 17:19 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/17/23 11:45 | 08/22/23 17:19 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/17/23 11:45 | 08/22/23 17:19 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/17/23 11:45 | 08/22/23 17:19 | 7439-92-1 | |
| Lithium | 0.0030J | mg/L | 0.030 | 0.00073 | 1 | 08/17/23 11:45 | 08/22/23 17:19 | 7439-93-2 | |
| Molybdenum | 0.0019J | mg/L | 0.010 | 0.00074 | 1 | 08/17/23 11:45 | 08/22/23 17:19 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/17/23 11:45 | 08/22/23 17:19 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/17/23 11:45 | 08/22/23 17:19 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 10:15 | 08/22/23 16:02 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 449 | mg/L | 25.0 | 25.0 | 1 | | 08/18/23 17:06 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 105 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 22:07 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 22:07 | | |
| Alkalinity, Total as CaCO3 | 105 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 22:07 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/18/23 04:38 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 35.1 | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 15:04 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-MW-24D Lab ID: 92682397012 Collected: 08/12/23 10:15 Received: 08/14/23 11:15 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----------------|-------|----|----------|----------------|------------|------|
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Fluoride | 0.080J | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 15:04 | 16984-48-8 | |
| Sulfate | 146 | mg/L | 3.0 | 1.5 | 3 | | 08/17/23 06:05 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

| Sample: HAM-MW-27D | | Lab ID: 92682397013 | | Collected: 08/12/23 14:20 | | Received: 08/14/23 11:15 | | Matrix: Water | |
|-------------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 0.29 | mg/L | 0.040 | 0.025 | 1 | 08/18/23 10:59 | 08/18/23 23:20 | 7439-89-6 | |
| Manganese | 0.11 | mg/L | 0.040 | 0.011 | 1 | 08/18/23 10:59 | 08/18/23 23:20 | 7439-96-5 | |
| Potassium | 0.88 | mg/L | 0.50 | 0.15 | 1 | 08/18/23 10:59 | 08/18/23 23:20 | 7440-09-7 | |
| Sodium | 31.5 | mg/L | 1.0 | 0.58 | 1 | 08/18/23 10:59 | 08/18/23 23:20 | 7440-23-5 | |
| Calcium | 27.8 | mg/L | 1.0 | 0.12 | 1 | 08/18/23 10:59 | 08/18/23 23:20 | 7440-70-2 | |
| Magnesium | 18.1 | mg/L | 0.050 | 0.012 | 1 | 08/18/23 10:59 | 08/18/23 23:20 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/17/23 11:45 | 08/22/23 17:54 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/17/23 11:45 | 08/22/23 17:54 | 7440-38-2 | |
| Barium | 0.98 | mg/L | 0.0050 | 0.00067 | 1 | 08/17/23 11:45 | 08/22/23 17:54 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/17/23 11:45 | 08/22/23 17:54 | 7440-41-7 | |
| Boron | 0.13 | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 11:45 | 08/22/23 17:54 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/17/23 11:45 | 08/22/23 17:54 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/17/23 11:45 | 08/23/23 18:05 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/17/23 11:45 | 08/22/23 17:54 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/17/23 11:45 | 08/22/23 17:54 | 7439-92-1 | |
| Lithium | 0.0072J | mg/L | 0.030 | 0.00073 | 1 | 08/17/23 11:45 | 08/22/23 17:54 | 7439-93-2 | |
| Molybdenum | 0.0019J | mg/L | 0.010 | 0.00074 | 1 | 08/17/23 11:45 | 08/22/23 17:54 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/17/23 11:45 | 08/22/23 17:54 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/17/23 11:45 | 08/22/23 17:54 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 10:15 | 08/22/23 16:04 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 238 | mg/L | 25.0 | 25.0 | 1 | | 08/18/23 17:06 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 181 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 22:16 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 22:16 | | |
| Alkalinity, Total as CaCO3 | 181 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 22:16 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/18/23 04:40 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 29.0 | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 15:18 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-MW-27D Lab ID: 92682397013 Collected: 08/12/23 14:20 Received: 08/14/23 11:15 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.26 | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 15:18 | 16984-48-8 | |
| Sulfate | 7.6 | mg/L | 1.0 | 0.50 | 1 | | 08/16/23 15:18 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-AP1-EB-01 **Lab ID: 92682397014** Collected: 08/12/23 13:35 Received: 08/14/23 11:15 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 08/18/23 10:59 | 08/18/23 23:25 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/17/23 11:45 | 08/22/23 18:00 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/17/23 11:45 | 08/22/23 18:00 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00067 | 1 | 08/17/23 11:45 | 08/22/23 18:00 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/17/23 11:45 | 08/22/23 18:00 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 11:45 | 08/22/23 18:00 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/17/23 11:45 | 08/22/23 18:00 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/17/23 11:45 | 08/23/23 18:09 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/17/23 11:45 | 08/22/23 18:00 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/17/23 11:45 | 08/22/23 18:00 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 08/17/23 11:45 | 08/22/23 18:00 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 08/17/23 11:45 | 08/22/23 18:00 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/17/23 11:45 | 08/22/23 18:00 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/17/23 11:45 | 08/22/23 18:00 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 10:15 | 08/22/23 16:07 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 08/18/23 17:06 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 15:33 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 15:33 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 08/16/23 15:33 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-AP1-FB-01 **Lab ID: 92682397015** Collected: 08/12/23 13:30 Received: 08/14/23 11:15 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 08/18/23 10:59 | 08/18/23 23:30 | 7440-70-2 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/17/23 11:45 | 08/22/23 18:06 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/17/23 11:45 | 08/22/23 18:06 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00067 | 1 | 08/17/23 11:45 | 08/22/23 18:06 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/17/23 11:45 | 08/22/23 18:06 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 11:45 | 08/22/23 18:06 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/17/23 11:45 | 08/22/23 18:06 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/17/23 11:45 | 08/23/23 18:12 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/17/23 11:45 | 08/22/23 18:06 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/17/23 11:45 | 08/22/23 18:06 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 08/17/23 11:45 | 08/22/23 18:06 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 08/17/23 11:45 | 08/22/23 18:06 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/17/23 11:45 | 08/22/23 18:06 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/17/23 11:45 | 08/22/23 18:06 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 10:15 | 08/22/23 16:09 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 08/18/23 17:07 | | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 15:47 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 15:47 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 08/16/23 15:47 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

| Sample: HAM-HGWC-9 | | Lab ID: 92682397016 | | Collected: 08/11/23 17:03 | | Received: 08/14/23 11:15 | | Matrix: Water | |
|--|----------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.052 | mg/L | 0.040 | 0.025 | 1 | 08/18/23 10:59 | 08/18/23 23:45 | 7439-89-6 | |
| Manganese | 0.57 | mg/L | 0.040 | 0.011 | 1 | 08/18/23 10:59 | 08/18/23 23:45 | 7439-96-5 | |
| Potassium | 3.4 | mg/L | 0.50 | 0.15 | 1 | 08/18/23 10:59 | 08/18/23 23:45 | 7440-09-7 | |
| Sodium | 12.3 | mg/L | 1.0 | 0.58 | 1 | 08/18/23 10:59 | 08/18/23 23:45 | 7440-23-5 | |
| Calcium | 168 | mg/L | 1.0 | 0.12 | 1 | 08/18/23 10:59 | 08/18/23 23:45 | 7440-70-2 | |
| Magnesium | 17.5 | mg/L | 0.050 | 0.012 | 1 | 08/18/23 10:59 | 08/18/23 23:45 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/17/23 11:45 | 08/22/23 18:12 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/17/23 11:45 | 08/22/23 18:12 | 7440-38-2 | |
| Barium | 0.068 | mg/L | 0.0050 | 0.00067 | 1 | 08/17/23 11:45 | 08/22/23 18:12 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/17/23 11:45 | 08/22/23 18:12 | 7440-41-7 | |
| Boron | 2.1 | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 11:45 | 08/22/23 18:12 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/17/23 11:45 | 08/22/23 18:12 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/17/23 11:45 | 08/23/23 18:16 | 7440-47-3 | |
| Cobalt | 0.00057J | mg/L | 0.0050 | 0.00039 | 1 | 08/17/23 11:45 | 08/22/23 18:12 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/17/23 11:45 | 08/22/23 18:12 | 7439-92-1 | |
| Lithium | 0.0035J | mg/L | 0.030 | 0.00073 | 1 | 08/17/23 11:45 | 08/22/23 18:12 | 7439-93-2 | |
| Molybdenum | 0.030 | mg/L | 0.010 | 0.00074 | 1 | 08/17/23 11:45 | 08/22/23 18:12 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/17/23 11:45 | 08/22/23 18:12 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/17/23 11:45 | 08/22/23 18:12 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 10:15 | 08/22/23 16:17 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 757 | mg/L | 25.0 | 25.0 | 1 | | 08/17/23 11:18 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 204 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 22:35 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 22:35 | | |
| Alkalinity, Total as CaCO3 | 204 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 22:35 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/18/23 04:31 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 78.9 | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 16:02 | 16887-00-6 | M1 |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-HGWC-9 Lab ID: 92682397016 Collected: 08/11/23 17:03 Received: 08/14/23 11:15 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|----|
| Fluoride | 0.12 | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 16:02 | 16984-48-8 | M1 |
| Sulfate | 197 | mg/L | 4.0 | 2.0 | 4 | | 08/17/23 06:19 | 14808-79-8 | M1 |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-MW-26D **Lab ID: 92682397017** Collected: 08/11/23 16:54 Received: 08/14/23 11:15 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.11 | mg/L | 0.040 | 0.025 | 1 | 08/18/23 10:59 | 08/18/23 23:49 | 7439-89-6 | |
| Manganese | 0.13 | mg/L | 0.040 | 0.011 | 1 | 08/18/23 10:59 | 08/18/23 23:49 | 7439-96-5 | |
| Potassium | 1.9 | mg/L | 0.50 | 0.15 | 1 | 08/18/23 10:59 | 08/18/23 23:49 | 7440-09-7 | |
| Sodium | 12.9 | mg/L | 1.0 | 0.58 | 1 | 08/18/23 10:59 | 08/18/23 23:49 | 7440-23-5 | |
| Calcium | 152 | mg/L | 1.0 | 0.12 | 1 | 08/18/23 10:59 | 08/18/23 23:49 | 7440-70-2 | |
| Magnesium | 15.5 | mg/L | 0.050 | 0.012 | 1 | 08/18/23 10:59 | 08/18/23 23:49 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/17/23 11:45 | 08/22/23 18:24 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/17/23 11:45 | 08/22/23 18:24 | 7440-38-2 | |
| Barium | 0.059 | mg/L | 0.0050 | 0.00067 | 1 | 08/17/23 11:45 | 08/22/23 18:24 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/17/23 11:45 | 08/22/23 18:24 | 7440-41-7 | |
| Boron | 1.6 | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 11:45 | 08/22/23 18:24 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/17/23 11:45 | 08/22/23 18:24 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/17/23 11:45 | 08/23/23 18:20 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/17/23 11:45 | 08/22/23 18:24 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/17/23 11:45 | 08/22/23 18:24 | 7439-92-1 | |
| Lithium | 0.0029J | mg/L | 0.030 | 0.00073 | 1 | 08/17/23 11:45 | 08/22/23 18:24 | 7439-93-2 | |
| Molybdenum | 0.014 | mg/L | 0.010 | 0.00074 | 1 | 08/17/23 11:45 | 08/22/23 18:24 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/17/23 11:45 | 08/22/23 18:24 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/17/23 11:45 | 08/22/23 18:24 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 10:15 | 08/22/23 16:20 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 706 | mg/L | 25.0 | 25.0 | 1 | | 08/17/23 11:18 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 177 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 22:48 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 22:48 | | |
| Alkalinity, Total as CaCO3 | 177 | mg/L | 5.0 | 5.0 | 1 | | 08/17/23 22:48 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/18/23 04:31 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 87.6 | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 16:45 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-MW-26D Lab ID: 92682397017 Collected: 08/11/23 16:54 Received: 08/14/23 11:15 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----------------|-------|----|----------|----------------|------------|------|
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Fluoride | 0.083J | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 16:45 | 16984-48-8 | |
| Sulfate | 159 | mg/L | 3.0 | 1.5 | 3 | | 08/17/23 07:02 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-MW-28D **Lab ID: 92682397018** Collected: 08/11/23 15:14 Received: 08/14/23 11:15 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---|----------------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.034J | mg/L | 0.040 | 0.025 | 1 | 08/18/23 10:59 | 08/18/23 23:54 | 7439-89-6 | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 08/18/23 10:59 | 08/18/23 23:54 | 7439-96-5 | |
| Potassium | 1.4 | mg/L | 0.50 | 0.15 | 1 | 08/18/23 10:59 | 08/18/23 23:54 | 7440-09-7 | |
| Sodium | 24.3 | mg/L | 1.0 | 0.58 | 1 | 08/18/23 10:59 | 08/18/23 23:54 | 7440-23-5 | |
| Calcium | 49.6 | mg/L | 1.0 | 0.12 | 1 | 08/18/23 10:59 | 08/18/23 23:54 | 7440-70-2 | |
| Magnesium | 26.7 | mg/L | 0.050 | 0.012 | 1 | 08/18/23 10:59 | 08/18/23 23:54 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/21/23 10:22 | 08/24/23 15:40 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/21/23 10:22 | 08/24/23 15:40 | 7440-38-2 | |
| Barium | 2.2 | mg/L | 0.050 | 0.0067 | 10 | 08/21/23 10:22 | 08/25/23 14:49 | 7440-39-3 | M1 |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/21/23 10:22 | 08/24/23 15:40 | 7440-41-7 | |
| Boron | 0.12 | mg/L | 0.040 | 0.0086 | 1 | 08/21/23 10:22 | 08/24/23 15:40 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/21/23 10:22 | 08/24/23 15:40 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/21/23 10:22 | 08/24/23 15:40 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/21/23 10:22 | 08/24/23 15:40 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/21/23 10:22 | 08/24/23 15:40 | 7439-92-1 | |
| Lithium | 0.016J | mg/L | 0.030 | 0.00073 | 1 | 08/21/23 10:22 | 08/24/23 15:40 | 7439-93-2 | |
| Molybdenum | 0.0011J | mg/L | 0.010 | 0.00074 | 1 | 08/21/23 10:22 | 08/24/23 15:40 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/21/23 10:22 | 08/24/23 15:40 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/21/23 10:22 | 08/24/23 15:40 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 10:15 | 08/22/23 16:25 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 296 | mg/L | 25.0 | 25.0 | 1 | | 08/17/23 11:18 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 269 | mg/L | 5.0 | 5.0 | 1 | | 08/18/23 09:15 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/18/23 09:15 | | |
| Alkalinity, Total as CaCO3 | 269 | mg/L | 5.0 | 5.0 | 1 | | 08/18/23 09:15 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | 3.5 | mg/L | 1.0 | 0.22 | 10 | | 08/18/23 04:32 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 17.0 | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 17:00 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
 Pace Project No.: 92682927

| Sample: HAM-MW-28D | | Lab ID: 92682397018 | | Collected: 08/11/23 15:14 | Received: 08/14/23 11:15 | Matrix: Water | | | |
|--------------------------------|-------------|---|--------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Fluoride | 0.26 | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 17:00 | 16984-48-8 | |
| Sulfate | 15.4 | mg/L | 1.0 | 0.50 | 1 | | 08/16/23 17:00 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-AP1-FD-01 **Lab ID:** 92682927022 Collected: 08/12/23 00:00 Received: 08/14/23 13:22 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---|----------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.16 | mg/L | 0.040 | 0.025 | 1 | 08/24/23 09:50 | 08/24/23 18:58 | 7439-89-6 | |
| Manganese | 0.054 | mg/L | 0.040 | 0.011 | 1 | 08/24/23 09:50 | 08/24/23 18:58 | 7439-96-5 | |
| Potassium | 0.75 | mg/L | 0.50 | 0.15 | 1 | 08/24/23 09:50 | 08/24/23 18:58 | 7440-09-7 | B |
| Sodium | 12.3 | mg/L | 1.0 | 0.58 | 1 | 08/24/23 09:50 | 08/24/23 18:58 | 7440-23-5 | M1 |
| Calcium | 107 | mg/L | 1.0 | 0.12 | 1 | 08/24/23 09:50 | 08/24/23 18:58 | 7440-70-2 | M1 |
| Magnesium | 6.3 | mg/L | 0.050 | 0.012 | 1 | 08/24/23 09:50 | 08/24/23 18:58 | 7439-95-4 | M1 |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/21/23 10:22 | 08/24/23 18:54 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/21/23 10:22 | 08/24/23 18:54 | 7440-38-2 | |
| Barium | 0.049 | mg/L | 0.0050 | 0.00067 | 1 | 08/21/23 10:22 | 08/24/23 18:54 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/21/23 10:22 | 08/24/23 18:54 | 7440-41-7 | |
| Boron | 0.52 | mg/L | 0.040 | 0.0086 | 1 | 08/21/23 10:22 | 08/24/23 18:54 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/21/23 10:22 | 08/24/23 18:54 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/21/23 10:22 | 08/24/23 18:54 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/21/23 10:22 | 08/24/23 18:54 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/21/23 10:22 | 08/24/23 18:54 | 7439-92-1 | |
| Lithium | 0.0028J | mg/L | 0.030 | 0.00073 | 1 | 08/21/23 10:22 | 08/24/23 18:54 | 7439-93-2 | |
| Molybdenum | 0.0016J | mg/L | 0.010 | 0.00074 | 1 | 08/21/23 10:22 | 08/24/23 18:54 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/21/23 10:22 | 08/24/23 18:54 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/21/23 10:22 | 08/24/23 18:54 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | 0.00017J | mg/L | 0.00020 | 0.00013 | 1 | 08/22/23 11:20 | 08/22/23 17:15 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 437 | mg/L | 25.0 | 25.0 | 1 | | 08/18/23 17:07 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 103 | mg/L | 5.0 | 5.0 | 1 | | 08/23/23 18:18 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/23/23 18:18 | | |
| Alkalinity, Total as CaCO3 | 103 | mg/L | 5.0 | 5.0 | 1 | | 08/23/23 18:18 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/18/23 05:00 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 35.2 | mg/L | 1.0 | 0.60 | 1 | | 08/18/23 19:48 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92682927

Sample: HAM-AP1-FD-01 Lab ID: 92682927022 Collected: 08/12/23 00:00 Received: 08/14/23 13:22 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-----|------|------|-------|---|--|----------------|------------|--|
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 08/18/23 19:48 | 16984-48-8 | |
| Sulfate | 135 | mg/L | 3.0 | 1.5 | 3 | | 08/19/23 16:22 | 14808-79-8 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

QC Batch: 793618

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92682398001

METHOD BLANK: 4112489

Matrix: Water

Associated Lab Samples: 92682398001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 08/18/23 19:00 | |
| Iron | mg/L | ND | 0.040 | 0.025 | 08/18/23 19:00 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 08/18/23 19:00 | |
| Manganese | mg/L | ND | 0.040 | 0.011 | 08/18/23 19:00 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 08/18/23 19:00 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 08/18/23 19:00 | |

LABORATORY CONTROL SAMPLE: 4112490

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 1 | 1.1 | 108 | 80-120 | |
| Iron | mg/L | 1 | 1.0 | 102 | 80-120 | |
| Magnesium | mg/L | 1 | 1.0 | 101 | 80-120 | |
| Manganese | mg/L | 1 | 0.99 | 99 | 80-120 | |
| Potassium | mg/L | 1 | 1.1 | 106 | 80-120 | |
| Sodium | mg/L | 1 | 1.1 | 106 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112491 4112492

| Parameter | Units | 92682392001 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|-----------|------------|-------|-------|--------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | % Rec | % Rec | | | | | |
| Calcium | mg/L | 8.4 | 1 | 1 | 8.8 | 9.3 | 35 | 92 | 75-125 | 6 | 20 | M1 | |
| Iron | mg/L | ND | 1 | 1 | 1.0 | 1.0 | 100 | 100 | 75-125 | 0 | 20 | | |
| Magnesium | mg/L | 3.4 | 1 | 1 | 4.1 | 4.3 | 72 | 92 | 75-125 | 5 | 20 | M1 | |
| Manganese | mg/L | ND | 1 | 1 | 0.98 | 0.99 | 97 | 98 | 75-125 | 1 | 20 | | |
| Potassium | mg/L | 0.32J | 1 | 1 | 1.3 | 1.5 | 102 | 113 | 75-125 | 8 | 20 | | |
| Sodium | mg/L | 9.5 | 1 | 1 | 10 | 10.5 | 44 | 103 | 75-125 | 6 | 20 | M1 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

| | | | |
|-------------------------|---|-----------------------|--|
| QC Batch: | 793869 | Analysis Method: | EPA 6010D |
| QC Batch Method: | EPA 3010A | Analysis Description: | 6010D ATL |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |
| Associated Lab Samples: | 92682398002, 92682398003, 92682398004, 92682398005, 92682398006, 92682398007, 92682398008, 92682398009, 92682398010 | | |

| | | | |
|-------------------------|---|---------|-------|
| METHOD BLANK: | 4113555 | Matrix: | Water |
| Associated Lab Samples: | 92682398002, 92682398003, 92682398004, 92682398005, 92682398006, 92682398007, 92682398008, 92682398009, 92682398010 | | |

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 08/18/23 15:12 | |
| Iron | mg/L | ND | 0.040 | 0.025 | 08/18/23 15:12 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 08/18/23 15:12 | |
| Manganese | mg/L | ND | 0.040 | 0.011 | 08/17/23 21:21 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 08/18/23 15:12 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 08/17/23 21:21 | |

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 1 | 1.0 | 103 | 80-120 | |
| Iron | mg/L | 1 | 0.97 | 97 | 80-120 | |
| Magnesium | mg/L | 1 | 0.96 | 96 | 80-120 | |
| Manganese | mg/L | 1 | 0.98 | 98 | 80-120 | |
| Potassium | mg/L | 1 | 1.1 | 107 | 80-120 | |
| Sodium | mg/L | 1 | 1.2 | 118 | 80-120 | |

| Parameter | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4113557 4113558 | | | | | | | | | | |
|-----------|-------|--|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92682398002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
| Calcium | mg/L | 100 | 1 | 1 | 101 | 100 | 7 | -30 | 75-125 | 0 | 20 | M1 |
| Iron | mg/L | ND | 1 | 1 | 0.95 | 0.98 | 93 | 96 | 75-125 | 3 | 20 | |
| Magnesium | mg/L | 11.8 | 1 | 1 | 12.4 | 12.4 | 66 | 62 | 75-125 | 0 | 20 | M1 |
| Manganese | mg/L | ND | 1 | 1 | 0.95 | 0.96 | 94 | 96 | 75-125 | 1 | 20 | |
| Potassium | mg/L | 2.6 | 1 | 1 | 3.6 | 3.7 | 104 | 117 | 75-125 | 4 | 20 | |
| Sodium | mg/L | 5.9 | 1 | 1 | 7.0 | 7.0 | 109 | 106 | 75-125 | 0 | 20 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

QC Batch: 794188 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92682397009, 92682397010, 92682397011, 92682397012, 92682397013, 92682397014, 92682397015, 92682397016, 92682397017, 92682397018

METHOD BLANK: 4115153 Matrix: Water
 Associated Lab Samples: 92682397009, 92682397010, 92682397011, 92682397012, 92682397013, 92682397014, 92682397015, 92682397016, 92682397017, 92682397018

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 08/18/23 21:28 | |
| Iron | mg/L | ND | 0.040 | 0.025 | 08/18/23 21:28 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 08/18/23 21:28 | |
| Manganese | mg/L | ND | 0.040 | 0.011 | 08/18/23 21:28 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 08/18/23 21:28 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 08/18/23 21:28 | |

LABORATORY CONTROL SAMPLE: 4115154

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 1 | 1.0 | 101 | 80-120 | |
| Iron | mg/L | 1 | 0.98 | 98 | 80-120 | |
| Magnesium | mg/L | 1 | 0.98 | 98 | 80-120 | |
| Manganese | mg/L | 1 | 0.97 | 97 | 80-120 | |
| Potassium | mg/L | 1 | 1.1 | 113 | 80-120 | |
| Sodium | mg/L | 1 | 1.1 | 109 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4115155 4115156

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92682552001 Result | Spike Conc. | Spike Conc. | Conc. | | | | | | | | |
| Calcium | mg/L | 97.8 | 1 | 1 | 96.7 | 95.3 | -103 | -245 | 75-125 | 1 | 20 | M1 | |
| Iron | mg/L | 0.13 | 1 | 1 | 1.2 | 1.1 | 102 | 98 | 75-125 | 4 | 20 | | |
| Magnesium | mg/L | 9.4 | 1 | 1 | 10.2 | 10.1 | 81 | 69 | 75-125 | 1 | 20 | M1 | |
| Manganese | mg/L | 0.19 | 1 | 1 | 1.2 | 1.1 | 100 | 95 | 75-125 | 4 | 20 | | |
| Potassium | mg/L | 0.85 | 1 | 1 | 2.0 | 1.9 | 115 | 104 | 75-125 | 6 | 20 | | |
| Sodium | mg/L | 5.7 | 1 | 1 | 6.5 | 6.4 | 79 | 67 | 75-125 | 2 | 20 | M1 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

QC Batch: 795463

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92682927022

METHOD BLANK: 4121755

Matrix: Water

Associated Lab Samples: 92682927022

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 08/24/23 18:37 | |
| Iron | mg/L | ND | 0.040 | 0.025 | 08/24/23 18:37 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 08/24/23 18:37 | |
| Manganese | mg/L | ND | 0.040 | 0.011 | 08/24/23 18:37 | |
| Potassium | mg/L | 0.17J | 0.50 | 0.15 | 08/24/23 18:37 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 08/24/23 18:37 | |

LABORATORY CONTROL SAMPLE: 4121756

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 1 | 1.0 | 100 | 80-120 | |
| Iron | mg/L | 1 | 0.97 | 97 | 80-120 | |
| Magnesium | mg/L | 1 | 1.0 | 102 | 80-120 | |
| Manganese | mg/L | 1 | 0.97 | 97 | 80-120 | |
| Potassium | mg/L | 1 | 1.0 | 103 | 80-120 | |
| Sodium | mg/L | 1 | 1.1 | 110 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4121757 4121758

| Parameter | Units | 92682927022 | | 4121757 | | 4121758 | | % Rec | % Rec | % Rec | Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------|-------|-------|--------|-----|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | | | | | | | |
| Calcium | mg/L | 107 | 1 | 100 | 103 | -623 | -414 | 75-125 | 2 | 20 | M1 | | | |
| Iron | mg/L | 0.16 | 1 | 1.1 | 1.1 | 98 | 98 | 75-125 | 0 | 20 | | | | |
| Magnesium | mg/L | 6.3 | 1 | 7.0 | 7.2 | 71 | 99 | 75-125 | 4 | 20 | M1 | | | |
| Manganese | mg/L | 0.054 | 1 | 1.0 | 1.0 | 96 | 98 | 75-125 | 2 | 20 | | | | |
| Potassium | mg/L | 0.75 | 1 | 1.5 | 1.6 | 77 | 81 | 75-125 | 2 | 20 | | | | |
| Sodium | mg/L | 12.3 | 1 | 12.8 | 13.4 | 51 | 110 | 75-125 | 4 | 20 | M1 | | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

QC Batch: 794002 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92682398001, 92682398002, 92682398003, 92682398004, 92682398005, 92682398006

METHOD BLANK: 4114214 Matrix: Water
 Associated Lab Samples: 92682398001, 92682398002, 92682398003, 92682398004, 92682398005, 92682398006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | 0.0043 | 0.0030 | 0.0012 | 08/22/23 15:04 | |
| Arsenic | mg/L | ND | 0.010 | 0.0037 | 08/22/23 15:04 | |
| Barium | mg/L | ND | 0.0050 | 0.00067 | 08/22/23 15:04 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000054 | 08/22/23 15:04 | |
| Boron | mg/L | ND | 0.040 | 0.0086 | 08/22/23 15:04 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00011 | 08/22/23 15:04 | |
| Chromium | mg/L | ND | 0.0050 | 0.0011 | 08/22/23 15:04 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00039 | 08/22/23 15:04 | |
| Lead | mg/L | ND | 0.0010 | 0.00012 | 08/22/23 15:04 | |
| Lithium | mg/L | ND | 0.030 | 0.00073 | 08/22/23 15:04 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00074 | 08/22/23 15:04 | |
| Selenium | mg/L | ND | 0.0050 | 0.0014 | 08/22/23 15:04 | |
| Thallium | mg/L | ND | 0.0010 | 0.00018 | 08/22/23 15:04 | |

LABORATORY CONTROL SAMPLE: 4114215

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.11 | 112 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.11 | 110 | 80-120 | |
| Boron | mg/L | 1 | 1.1 | 110 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.11 | 106 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Lead | mg/L | 0.1 | 0.10 | 105 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.11 | 110 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.11 | 107 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.11 | 105 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.11 | 105 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4114216 4114217

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|
| | | 92682396010 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | |
| Antimony | mg/L | 0.0014J | 0.1 | 0.1 | 0.11 | 0.10 | 107 | 101 | 75-125 | 6 | 20 |
| Arsenic | mg/L | 0.0040J | 0.1 | 0.1 | 0.12 | 0.11 | 112 | 104 | 75-125 | 7 | 20 |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

| Parameter | Units | 4114216 | | 4114217 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 92682396010 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Barium | mg/L | 0.042 | 0.1 | 0.1 | 0.16 | 0.15 | 118 | 108 | 75-125 | 6 | 20 | | |
| Beryllium | mg/L | 0.00071 | 0.1 | 0.1 | 0.090 | 0.085 | 89 | 84 | 75-125 | 6 | 20 | | |
| Boron | mg/L | 10.1 | 1 | 1 | 10.9 | 10.7 | 77 | 57 | 75-125 | 2 | 20 | M1 | |
| Cadmium | mg/L | 0.00059 | 0.1 | 0.1 | 0.099 | 0.094 | 98 | 94 | 75-125 | 5 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.097 | 104 | 97 | 75-125 | 7 | 20 | | |
| Cobalt | mg/L | 0.21 | 0.1 | 0.1 | 0.31 | 0.29 | 102 | 83 | 75-125 | 6 | 20 | | |
| Lead | mg/L | 0.00013J | 0.1 | 0.1 | 0.067 | 0.064 | 67 | 64 | 75-125 | 5 | 20 | M1 | |
| Lithium | mg/L | 0.0024J | 0.1 | 0.1 | 0.097 | 0.092 | 95 | 89 | 75-125 | 6 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.10 | 109 | 104 | 75-125 | 5 | 20 | | |
| Selenium | mg/L | 0.013 | 0.1 | 0.1 | 0.13 | 0.13 | 122 | 113 | 75-125 | 8 | 20 | | |
| Thallium | mg/L | 0.00021J | 0.1 | 0.1 | 0.069 | 0.066 | 68 | 65 | 75-125 | 5 | 20 | M1 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 794177 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6020 MET |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92682398007, 92682398008, 92682398009, 92682398010

METHOD BLANK: 4115107 Matrix: Water

Associated Lab Samples: 92682398007, 92682398008, 92682398009, 92682398010

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.0012 | 08/22/23 18:42 | |
| Arsenic | mg/L | ND | 0.010 | 0.0037 | 08/22/23 18:42 | |
| Barium | mg/L | ND | 0.0050 | 0.00067 | 08/22/23 18:42 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000054 | 08/22/23 18:42 | |
| Boron | mg/L | ND | 0.040 | 0.0086 | 08/22/23 18:42 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00011 | 08/22/23 18:42 | |
| Chromium | mg/L | ND | 0.0050 | 0.0011 | 08/23/23 16:28 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00039 | 08/22/23 18:42 | |
| Lead | mg/L | ND | 0.0010 | 0.00012 | 08/22/23 18:42 | |
| Lithium | mg/L | ND | 0.030 | 0.00073 | 08/22/23 18:42 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00074 | 08/22/23 18:42 | |
| Selenium | mg/L | ND | 0.0050 | 0.0014 | 08/22/23 18:42 | |
| Thallium | mg/L | ND | 0.0010 | 0.00018 | 08/22/23 18:42 | |

LABORATORY CONTROL SAMPLE: 4115108

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.094 | 94 | 80-120 | |
| Barium | mg/L | 0.1 | 0.096 | 96 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.093 | 93 | 80-120 | |
| Boron | mg/L | 1 | 0.94 | 94 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.096 | 96 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.090 | 90 | 80-120 | |
| Lead | mg/L | 0.1 | 0.094 | 94 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.095 | 95 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.097 | 97 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.093 | 93 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4115109 4115110

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 2681886001 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 104 | 103 | 75-125 | 1 | 20 | | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.098 | 99 | 98 | 75-125 | 1 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

| Parameter | Units | 4115109 | | 4115110 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 92681886001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Barium | mg/L | 0.039 | 0.1 | 0.1 | 0.14 | 0.14 | 103 | 103 | 75-125 | 1 | 20 | | |
| Beryllium | mg/L | 0.000067J | 0.1 | 0.1 | 0.094 | 0.091 | 94 | 91 | 75-125 | 4 | 20 | | |
| Boron | mg/L | 0.029J | 1 | 1 | 0.97 | 0.94 | 94 | 91 | 75-125 | 3 | 20 | | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.098 | 0.099 | 98 | 99 | 75-125 | 1 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 101 | 75-125 | 1 | 20 | | |
| Cobalt | mg/L | 0.00041J | 0.1 | 0.1 | 0.092 | 0.091 | 91 | 91 | 75-125 | 0 | 20 | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.093 | 0.092 | 93 | 92 | 75-125 | 1 | 20 | | |
| Lithium | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.094 | 95 | 93 | 75-125 | 2 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.096 | 0.096 | 96 | 95 | 75-125 | 0 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.099 | 100 | 99 | 75-125 | 1 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.092 | 0.092 | 92 | 92 | 75-125 | 0 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

QC Batch: 794178 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92682397009, 92682397010, 92682397011, 92682397012, 92682397013, 92682397014, 92682397015, 92682397016, 92682397017

METHOD BLANK: 4115112 Matrix: Water
 Associated Lab Samples: 92682397009, 92682397010, 92682397011, 92682397012, 92682397013, 92682397014, 92682397015, 92682397016, 92682397017

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.0012 | 08/22/23 15:06 | |
| Arsenic | mg/L | ND | 0.010 | 0.0037 | 08/22/23 15:06 | |
| Barium | mg/L | ND | 0.0050 | 0.00067 | 08/22/23 15:06 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000054 | 08/22/23 15:06 | |
| Boron | mg/L | ND | 0.040 | 0.0086 | 08/22/23 15:06 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00011 | 08/22/23 15:06 | |
| Chromium | mg/L | ND | 0.0050 | 0.0011 | 08/22/23 15:06 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00039 | 08/22/23 15:06 | |
| Lead | mg/L | ND | 0.0010 | 0.00012 | 08/22/23 15:06 | |
| Lithium | mg/L | ND | 0.030 | 0.00073 | 08/22/23 15:06 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00074 | 08/22/23 15:06 | |
| Selenium | mg/L | ND | 0.0050 | 0.0014 | 08/22/23 15:06 | |
| Thallium | mg/L | ND | 0.0010 | 0.00018 | 08/22/23 15:06 | |

LABORATORY CONTROL SAMPLE: 4115113

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.11 | 105 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Barium | mg/L | 0.1 | 0.096 | 96 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Boron | mg/L | 1 | 1.0 | 101 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Lead | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.099 | 99 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4115114 4115115

| Parameter | Units | 92682576001 Result | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-----------|------------|------|----------|-----------|--------------|-----|---------|------|
| | | | Spike Conc. | MS Result | MSD Result | | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 109 | 107 | 75-125 | 2 | 20 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

| Parameter | Units | 4115114 | | 4115115 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 92682576001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 103 | 99 | 75-125 | 3 | 20 | | |
| Barium | mg/L | 0.036 | 0.1 | 0.1 | 0.14 | 0.14 | 105 | 104 | 75-125 | 1 | 20 | | |
| Beryllium | mg/L | 0.000070J | 0.1 | 0.1 | 0.10 | 0.098 | 100 | 98 | 75-125 | 1 | 20 | | |
| Boron | mg/L | 0.16 | 1 | 1 | 1.2 | 1.2 | 104 | 102 | 75-125 | 2 | 20 | | |
| Cadmium | mg/L | 0.00015J | 0.1 | 0.1 | 0.10 | 0.099 | 103 | 99 | 75-125 | 4 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.098 | 104 | 98 | 75-125 | 6 | 20 | | |
| Cobalt | mg/L | 0.0028J | 0.1 | 0.1 | 0.11 | 0.10 | 103 | 98 | 75-125 | 5 | 20 | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.097 | 99 | 97 | 75-125 | 2 | 20 | | |
| Lithium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 103 | 101 | 75-125 | 2 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 104 | 104 | 75-125 | 0 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 100 | 75-125 | 2 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.096 | 99 | 96 | 75-125 | 3 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 794885 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6020 MET |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92682397018, 92682927022

METHOD BLANK: 4118630 Matrix: Water

Associated Lab Samples: 92682397018, 92682927022

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.0012 | 08/24/23 15:28 | |
| Arsenic | mg/L | ND | 0.010 | 0.0037 | 08/24/23 15:28 | |
| Barium | mg/L | ND | 0.0050 | 0.00067 | 08/24/23 15:28 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000054 | 08/24/23 15:28 | |
| Boron | mg/L | ND | 0.040 | 0.0086 | 08/24/23 15:28 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00011 | 08/24/23 15:28 | |
| Chromium | mg/L | ND | 0.0050 | 0.0011 | 08/24/23 15:28 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00039 | 08/24/23 15:28 | |
| Lead | mg/L | ND | 0.0010 | 0.00012 | 08/24/23 15:28 | |
| Lithium | mg/L | ND | 0.030 | 0.00073 | 08/24/23 15:28 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00074 | 08/24/23 15:28 | |
| Selenium | mg/L | ND | 0.0050 | 0.0014 | 08/24/23 15:28 | |
| Thallium | mg/L | ND | 0.0010 | 0.00018 | 08/24/23 15:28 | |

LABORATORY CONTROL SAMPLE: 4118631

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.10 | 105 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Barium | mg/L | 0.1 | 0.097 | 97 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.096 | 96 | 80-120 | |
| Boron | mg/L | 1 | 0.98 | 98 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.097 | 97 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Lead | mg/L | 0.1 | 0.095 | 95 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.096 | 96 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.096 | 96 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4118632 4118633

| Parameter | Units | 92682397018 Result | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | | Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 107 | 106 | 75-125 | 1 | 20 | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 103 | 102 | 75-125 | 1 | 20 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

| Parameter | Units | 4118632 | | 4118633 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 92682397018 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Barium | mg/L | 2.2 | 0.1 | 0.1 | 2.4 | 2.3 | 206 | 105 | 75-125 | 4 | 20 | M1 | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.097 | 0.096 | 97 | 96 | 75-125 | 1 | 20 | | |
| Boron | mg/L | 0.12 | 1 | 1 | 1.1 | 1.1 | 99 | 97 | 75-125 | 2 | 20 | | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 101 | 75-125 | 0 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.099 | 100 | 99 | 75-125 | 1 | 20 | | |
| Cobalt | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.098 | 100 | 98 | 75-125 | 1 | 20 | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.094 | 95 | 94 | 75-125 | 0 | 20 | | |
| Lithium | mg/L | 0.016J | 0.1 | 0.1 | 0.11 | 0.11 | 99 | 96 | 75-125 | 3 | 20 | | |
| Molybdenum | mg/L | 0.0011J | 0.1 | 0.1 | 0.099 | 0.10 | 98 | 99 | 75-125 | 1 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.088 | 0.087 | 87 | 87 | 75-125 | 0 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.096 | 95 | 95 | 75-125 | 0 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

| | | | |
|-------------------------|--|-----------------------|--|
| QC Batch: | 795034 | Analysis Method: | EPA 7470A |
| QC Batch Method: | EPA 7470A | Analysis Description: | 7470 Mercury |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |
| Associated Lab Samples: | 92682397009, 92682397010, 92682397011, 92682397012, 92682397013, 92682397014, 92682397015, 92682397016, 92682397017, 92682397018, 92682398001, 92682398002, 92682398003, 92682398004, 92682398005, 92682398006, 92682398007, 92682398008 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | 4119602 | Matrix: | Water |
| Associated Lab Samples: | 92682397009, 92682397010, 92682397011, 92682397012, 92682397013, 92682397014, 92682397015, 92682397016, 92682397017, 92682397018, 92682398001, 92682398002, 92682398003, 92682398004, 92682398005, 92682398006, 92682398007, 92682398008 | | |

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00020 | 0.00013 | 08/22/23 15:12 | |

| LABORATORY CONTROL SAMPLE: | 4119603 | | | | | |
|----------------------------|---------|-------------|------------|-----------|--------------|------------|
| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
| Mercury | mg/L | 0.0025 | 0.0023 | 92 | 80-120 | |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: | 4119604 | | | 4119605 | | | | | | | | |
|--|---------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Parameter | Units | 92682398001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
| Mercury | mg/L | ND | 0.0025 | 0.0025 | 0.0030 | 0.0029 | 121 | 117 | 75-125 | 4 | 20 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

| | | | |
|-------------------------|---------------------------------------|-----------------------|--|
| QC Batch: | 795036 | Analysis Method: | EPA 7470A |
| QC Batch Method: | EPA 7470A | Analysis Description: | 7470 Mercury |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |
| Associated Lab Samples: | 92682398009, 92682398010, 92682927022 | | |

METHOD BLANK: 4119606 Matrix: Water
 Associated Lab Samples: 92682398009, 92682398010, 92682927022

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00020 | 0.00013 | 08/22/23 16:32 | |

LABORATORY CONTROL SAMPLE: 4119607

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0023 | 93 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4119608 4119609

| Parameter | Units | 92682398009 | | 4119609 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Mercury | mg/L | 0.00013J | 0.0025 | 0.0034 | 0.0025 | 131 | 132 | 75-125 | 0 | 20 | M1 |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

| | | | |
|-------------------------|---|-----------------------|--|
| QC Batch: | 793918 | Analysis Method: | SM 2540C-2015 |
| QC Batch Method: | SM 2540C-2015 | Analysis Description: | 2540C Total Dissolved Solids |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |
| Associated Lab Samples: | 92682397009, 92682398001, 92682398002, 92682398003, 92682398004, 92682398005, 92682398006, 92682398007, 92682398008, 92682398009, 92682398010 | | |

| | | | |
|-------------------------|---|---------|-------|
| METHOD BLANK: | 4113746 | Matrix: | Water |
| Associated Lab Samples: | 92682397009, 92682398001, 92682398002, 92682398003, 92682398004, 92682398005, 92682398006, 92682398007, 92682398008, 92682398009, 92682398010 | | |

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 08/16/23 14:47 | |

| LABORATORY CONTROL SAMPLE: 4113747 | | | | | | |
|------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
| Total Dissolved Solids | mg/L | 400 | 379 | 95 | 80-120 | |

| SAMPLE DUPLICATE: 4113748 | | | | | | |
|---------------------------|-------|--------------------|------------|-----|---------|------------|
| Parameter | Units | 92682392001 Result | Dup Result | RPD | Max RPD | Qualifiers |
| Total Dissolved Solids | mg/L | 80.0 | 75.0 | 6 | 10 | |

| SAMPLE DUPLICATE: 4113749 | | | | | | |
|---------------------------|-------|--------------------|------------|-----|---------|------------|
| Parameter | Units | 92682398005 Result | Dup Result | RPD | Max RPD | Qualifiers |
| Total Dissolved Solids | mg/L | 626 | 638 | 2 | 10 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

| | | | |
|------------------|---------------|-----------------------|--|
| QC Batch: | 794085 | Analysis Method: | SM 2540C-2015 |
| QC Batch Method: | SM 2540C-2015 | Analysis Description: | 2540C Total Dissolved Solids |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92682397016, 92682397017, 92682397018

METHOD BLANK: 4114862 Matrix: Water

Associated Lab Samples: 92682397016, 92682397017, 92682397018

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 08/17/23 11:09 | |

LABORATORY CONTROL SAMPLE: 4114863

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 387 | 97 | 80-120 | |

SAMPLE DUPLICATE: 4114864

| Parameter | Units | 92682552001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 361 | 382 | 6 | 10 | |

SAMPLE DUPLICATE: 4114865

| Parameter | Units | 92682576008 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 346 | 340 | 2 | 10 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

| | | | |
|------------------|---------------|-----------------------|--|
| QC Batch: | 794562 | Analysis Method: | SM 2540C-2015 |
| QC Batch Method: | SM 2540C-2015 | Analysis Description: | 2540C Total Dissolved Solids |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92682397010, 92682397011, 92682397012, 92682397013, 92682397014, 92682397015, 92682927022

METHOD BLANK: 4117070 Matrix: Water

Associated Lab Samples: 92682397010, 92682397011, 92682397012, 92682397013, 92682397014, 92682397015, 92682927022

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 08/18/23 17:04 | |

LABORATORY CONTROL SAMPLE: 4117071

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 384 | 96 | 80-120 | |

SAMPLE DUPLICATE: 4117072

| Parameter | Units | 92682462004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 32400 | 9700 | 108 | 10 | D6 |

SAMPLE DUPLICATE: 4117073

| Parameter | Units | 92682397014 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | ND | ND | | 10 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

QC Batch: 793988 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92682398001, 92682398002, 92682398003, 92682398004, 92682398005

METHOD BLANK: 4114120 Matrix: Water
 Associated Lab Samples: 92682398001, 92682398002, 92682398003, 92682398004, 92682398005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 08/16/23 18:28 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 08/16/23 18:28 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 08/16/23 18:28 | |

LABORATORY CONTROL SAMPLE: 4114121

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.3 | 105 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4114122

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.6 | 105 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4114123 4114124

| Parameter | Units | 92682398004 | | 4114123 | | 4114124 | | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------|----------------|-----------------|-----------|------------|----------|--------------|--------|---------|-------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 179 | 50 | 50 | 238 | 240 | 116 | 121 | 80-120 | 1 | 25 M1 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4114125 4114126

| Parameter | Units | 92682398005 | | 4114125 | | 4114126 | | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------|----------------|-----------------|-----------|------------|----------|--------------|--------|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 298 | 50 | 50 | 339 | 344 | 82 | 92 | 80-120 | 1 | 25 |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

QC Batch: 794234 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92682398006, 92682398007, 92682398008, 92682398009, 92682398010

METHOD BLANK: 4115455 Matrix: Water
 Associated Lab Samples: 92682398006, 92682398007, 92682398008, 92682398009, 92682398010

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 08/17/23 15:14 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 08/17/23 15:14 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 08/17/23 15:14 | |

LABORATORY CONTROL SAMPLE: 4115456

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.9 | 106 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4115457

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.0 | 104 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4115458 4115459

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------|-------------|-------------|--------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92682576004 | Spike Conc. | Spike Conc. | Result | | | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 162 | 50 | 50 | 221 | 225 | 117 | 125 | 80-120 | 2 | 25 | M1 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4115460 4115461

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------|-------------|-------------|--------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92682576005 | Spike Conc. | Spike Conc. | Result | | | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 79.7 | 50 | 50 | 135 | 134 | 110 | 108 | 80-120 | 1 | 25 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

| | | | |
|-------------------------|--|-----------------------|--------------------------------------|
| QC Batch: | 794235 | Analysis Method: | SM 2320B-2011 |
| QC Batch Method: | SM 2320B-2011 | Analysis Description: | 2320B Alkalinity |
| | | Laboratory: | Pace Analytical Services - Asheville |
| Associated Lab Samples: | 92682397009, 92682397010, 92682397011, 92682397012, 92682397013, 92682397016, 92682397017, 92682397018 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | 4115463 | Matrix: | Water |
| Associated Lab Samples: | 92682397009, 92682397010, 92682397011, 92682397012, 92682397013, 92682397016, 92682397017, 92682397018 | | |

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 08/17/23 20:06 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 08/17/23 20:06 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 08/17/23 20:06 | |

| LABORATORY CONTROL SAMPLE: 4115464 | | | | | | |
|------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
| Alkalinity, Total as CaCO3 | mg/L | 50 | 51.8 | 104 | 80-120 | |

| LABORATORY CONTROL SAMPLE: 4115465 | | | | | | |
|------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
| Alkalinity, Total as CaCO3 | mg/L | 50 | 51.4 | 103 | 80-120 | |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4115466 | | | | | | | | | | | | 4115467 | |
|--|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|---------|--|
| Parameter | Units | 92681886006 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
| Alkalinity, Total as CaCO3 | mg/L | 246 | 50 | 50 | 291 | 299 | 90 | 106 | 80-120 | 3 | 25 | | |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4115468 | | | | | | | | | | | | 4115469 | |
|--|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|---------|--|
| Parameter | Units | 92681886007 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
| Alkalinity, Total as CaCO3 | mg/L | 210 | 50 | 50 | 271 | 274 | 122 | 128 | 80-120 | 1 | 25 M1 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

QC Batch: 794644

Analysis Method: SM 2320B-2011

QC Batch Method: SM 2320B-2011

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92682927022

METHOD BLANK: 4117720

Matrix: Water

Associated Lab Samples: 92682927022

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 08/23/23 17:43 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 08/23/23 17:43 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 08/23/23 17:43 | |

LABORATORY CONTROL SAMPLE: 4117721

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.8 | 106 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4117722

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 51.6 | 103 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4117723 4117724

| Parameter | Units | 92682650011 | | 4117723 | | 4117724 | | % Rec Limits | RPD | Max RPD | Qual | |
|----------------------------|-------|-------------|-----------------|-----------|-----------------|-----------|-----------------|--------------|--------|---------|------|--|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | ND | 50 | 50 | 51.7 | 52.4 | 103 | 104 | 80-120 | 1 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4117725 4117726

| Parameter | Units | 92682671001 | | 4117725 | | 4117726 | | % Rec Limits | RPD | Max RPD | Qual | |
|----------------------------|-------|-------------|-----------------|-----------|-----------------|-----------|-----------------|--------------|--------|---------|------|--|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 14.6 | 50 | 50 | 68.5 | 66.9 | 108 | 105 | 80-120 | 2 | 25 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

QC Batch: 793501 Analysis Method: SM 4500-S2D-2011
 QC Batch Method: SM 4500-S2D-2011 Analysis Description: 4500S2D Sulfide Water
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92682398001, 92682398002, 92682398003, 92682398004, 92682398005, 92682398006, 92682398007, 92682398008, 92682398009, 92682398010

METHOD BLANK: 4111964 Matrix: Water
 Associated Lab Samples: 92682398001, 92682398002, 92682398003, 92682398004, 92682398005, 92682398006, 92682398007, 92682398008, 92682398009, 92682398010

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide | mg/L | ND | 0.10 | 0.022 | 08/15/23 06:38 | |

LABORATORY CONTROL SAMPLE: 4111965

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide | mg/L | 0.5 | 0.48 | 96 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4111966 4111967

| Parameter | Units | 92682393002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.39 | 0.42 | 77 | 83 | 80-120 | 7 | 10 | M1 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4111968 4111969

| Parameter | Units | 92682398007 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.46 | 0.48 | 92 | 94 | 80-120 | 3 | 10 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

QC Batch: 794102 Analysis Method: SM 4500-S2D-2011
 QC Batch Method: SM 4500-S2D-2011 Analysis Description: 4500S2D Sulfide Water
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92682397009, 92682397010, 92682397011, 92682397016, 92682397017, 92682397018

METHOD BLANK: 4114896 Matrix: Water
 Associated Lab Samples: 92682397009, 92682397010, 92682397011, 92682397016, 92682397017, 92682397018

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide | mg/L | ND | 0.10 | 0.022 | 08/18/23 04:23 | |

LABORATORY CONTROL SAMPLE: 4114897

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide | mg/L | 0.5 | 0.48 | 96 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4114898 4114899

| Parameter | Units | 92682834002 | | 4114898 | | 4114899 | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-----------------|-----------|-----------------|-----------|-----------------|--------------|--------|---------|------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.47 | 0.44 | 93 | 87 | 80-120 | 6 | 10 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4114900 4114901

| Parameter | Units | 92682576011 | | 4114900 | | 4114901 | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-----------------|-----------|-----------------|-----------|-----------------|--------------|--------|---------|------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.50 | 0.50 | 98 | 98 | 80-120 | 1 | 10 |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

| | | | |
|------------------|------------------|-----------------------|--------------------------------------|
| QC Batch: | 794103 | Analysis Method: | SM 4500-S2D-2011 |
| QC Batch Method: | SM 4500-S2D-2011 | Analysis Description: | 4500S2D Sulfide Water |
| | | Laboratory: | Pace Analytical Services - Asheville |

Associated Lab Samples: 92682397012, 92682397013

METHOD BLANK: 4114902 Matrix: Water

Associated Lab Samples: 92682397012, 92682397013

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide | mg/L | ND | 0.10 | 0.022 | 08/18/23 04:37 | |

LABORATORY CONTROL SAMPLE: 4114903

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide | mg/L | 0.5 | 0.48 | 96 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4114904 4114905

| Parameter | Units | 92682397012 | | 4114905 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------|----------------|-------|-------|--------------|-----|---------|------|
| | | MS Result | MS Spike Conc. | MS Result | MS Spike Conc. | | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.49 | 0.51 | 96 | 99 | 80-120 | 3 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4114906 4114907

| Parameter | Units | 92681886012 | | 4114907 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------|----------------|-------|-------|--------------|-----|---------|------|
| | | MS Result | MS Spike Conc. | MS Result | MS Spike Conc. | | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.45 | 0.45 | 89 | 89 | 80-120 | 0 | 10 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

QC Batch: 794424

Analysis Method: SM 4500-S2D-2011

QC Batch Method: SM 4500-S2D-2011

Analysis Description: 4500S2D Sulfide Water

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92682927022

METHOD BLANK: 4116502

Matrix: Water

Associated Lab Samples: 92682927022

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide | mg/L | ND | 0.10 | 0.022 | 08/18/23 04:59 | |

LABORATORY CONTROL SAMPLE: 4116503

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide | mg/L | 0.5 | 0.47 | 95 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4116504 4116505

| Parameter | Units | 92682927022 | | 4116505 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-----------------|-----------|-----------------|-------|-------|--------------|-----|---------|------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.47 | 0.47 | 92 | 93 | 80-120 | 1 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4116506 4116507

| Parameter | Units | 92683141010 | | 4116507 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-----------------|-----------|-----------------|-------|-------|--------------|-----|---------|------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.47 | 0.52 | 94 | 104 | 80-120 | 10 | 10 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

| | |
|---|--|
| QC Batch: 793550 | Analysis Method: EPA 300.0 Rev 2.1 1993 |
| QC Batch Method: EPA 300.0 Rev 2.1 1993 | Analysis Description: 300.0 IC Anions |
| | Laboratory: Pace Analytical Services - Asheville |

Associated Lab Samples: 92682398001

METHOD BLANK: 4112126 Matrix: Water

Associated Lab Samples: 92682398001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 08/15/23 12:46 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 08/15/23 12:46 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 08/15/23 12:46 | |

LABORATORY CONTROL SAMPLE: 4112127

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 48.4 | 97 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.5 | 98 | 90-110 | |
| Sulfate | mg/L | 50 | 47.4 | 95 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112128 4112129

| Parameter | Units | 92682198001 | | 4112128 | | 4112129 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|------------|----------------|-----------------|-----------|------------|-------|-------|--------------|-----|---------|------|
| | | MS Result | MSD Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Chloride | mg/L | ND | ND | 50 | 50 | 48.0 | 48.3 | 95 | 96 | 90-110 | 1 | 10 | |
| Fluoride | mg/L | ND | ND | 2.5 | 2.5 | 2.4 | 2.4 | 94 | 95 | 90-110 | 1 | 10 | |
| Sulfate | mg/L | ND | ND | 50 | 50 | 47.3 | 47.6 | 93 | 94 | 90-110 | 1 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112130 4112131

| Parameter | Units | 92682396003 | | 4112130 | | 4112131 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|------------|----------------|-----------------|-----------|------------|-------|-------|--------------|-----|---------|------|
| | | MS Result | MSD Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Chloride | mg/L | 141 | 141 | 50 | 50 | 179 | 180 | 77 | 78 | 90-110 | 0 | 10 M1 | |
| Fluoride | mg/L | 0.56 | 0.56 | 2.5 | 2.5 | 3.1 | 3.2 | 102 | 104 | 90-110 | 2 | 10 | |
| Sulfate | mg/L | 762 | 762 | 50 | 50 | 787 | 789 | 50 | 53 | 90-110 | 0 | 10 M1 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

| | | | |
|-------------------------|---|-----------------------|--------------------------------------|
| QC Batch: | 793553 | Analysis Method: | EPA 300.0 Rev 2.1 1993 |
| QC Batch Method: | EPA 300.0 Rev 2.1 1993 | Analysis Description: | 300.0 IC Anions |
| | | Laboratory: | Pace Analytical Services - Asheville |
| Associated Lab Samples: | 92682398002, 92682398003, 92682398004, 92682398005, 92682398006, 92682398007, 92682398008, 92682398009, 92682398010 | | |

| | | | |
|-------------------------|---|---------|-------|
| METHOD BLANK: | 4112135 | Matrix: | Water |
| Associated Lab Samples: | 92682398002, 92682398003, 92682398004, 92682398005, 92682398006, 92682398007, 92682398008, 92682398009, 92682398010 | | |

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 08/15/23 22:01 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 08/15/23 22:01 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 08/15/23 22:01 | |

| LABORATORY CONTROL SAMPLE: 4112136 | | | | | | |
|------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
| Chloride | mg/L | 50 | 49.5 | 99 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.5 | 100 | 90-110 | |
| Sulfate | mg/L | 50 | 48.3 | 97 | 90-110 | |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112137 | | | | | | | | | | | | 4112138 | |
|--|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|---------|--|
| Parameter | Units | 92682397002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
| Chloride | mg/L | 14.5 | 50 | 50 | 62.4 | 63.0 | 96 | 97 | 90-110 | 1 | 10 | | |
| Fluoride | mg/L | 0.27 | 2.5 | 2.5 | 2.6 | 2.6 | 92 | 93 | 90-110 | 2 | 10 | | |
| Sulfate | mg/L | 290 | 50 | 50 | 327 | 328 | 73 | 75 | 90-110 | 0 | 10 M1 | | |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112139 | | | | | | | | | | | | 4112140 | |
|--|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|---------|--|
| Parameter | Units | 92682398009 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
| Chloride | mg/L | 13.6 | 50 | 50 | 61.8 | 62.0 | 96 | 97 | 90-110 | 0 | 10 | | |
| Fluoride | mg/L | 1.5 | 2.5 | 2.5 | 3.8 | 3.9 | 95 | 96 | 90-110 | 1 | 10 | | |
| Sulfate | mg/L | 0.62J | 50 | 50 | 47.3 | 47.5 | 93 | 94 | 90-110 | 1 | 10 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

| | | | |
|-------------------------|--|-----------------------|--------------------------------------|
| QC Batch: | 793837 | Analysis Method: | EPA 300.0 Rev 2.1 1993 |
| QC Batch Method: | EPA 300.0 Rev 2.1 1993 | Analysis Description: | 300.0 IC Anions |
| | | Laboratory: | Pace Analytical Services - Asheville |
| Associated Lab Samples: | 92682397009, 92682397010, 92682397011, 92682397012, 92682397013, 92682397014, 92682397015, 92682397016, 92682397017, 92682397018 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | 4113450 | Matrix: | Water |
| Associated Lab Samples: | 92682397009, 92682397010, 92682397011, 92682397012, 92682397013, 92682397014, 92682397015, 92682397016, 92682397017, 92682397018 | | |

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 08/16/23 12:10 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 08/16/23 12:10 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 08/16/23 12:10 | |

| LABORATORY CONTROL SAMPLE: 4113451 | | | | | | |
|------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
| Chloride | mg/L | 50 | 49.2 | 98 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.5 | 100 | 90-110 | |
| Sulfate | mg/L | 50 | 49.2 | 98 | 90-110 | |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4113452 | | | | | | | | | | | | 4113453 | |
|--|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|---------|--|
| Parameter | Units | 92682815002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
| Chloride | mg/L | 93.9 | 50 | 50 | 130 | 131 | 73 | 74 | 90-110 | 1 | 10 | M1 | |
| Fluoride | mg/L | 0.66 | 2.5 | 2.5 | 2.8 | 2.9 | 87 | 88 | 90-110 | 1 | 10 | M1 | |
| Sulfate | mg/L | 57.0 | 50 | 50 | 95.9 | 96.8 | 78 | 79 | 90-110 | 1 | 10 | M1 | |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4113454 | | | | | | | | | | | | 4113455 | |
|--|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|---------|--|
| Parameter | Units | 92682397016 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
| Chloride | mg/L | 78.9 | 50 | 50 | 117 | 117 | 75 | 77 | 90-110 | 1 | 10 | M1 | |
| Fluoride | mg/L | 0.12 | 2.5 | 2.5 | 2.3 | 2.3 | 87 | 89 | 90-110 | 2 | 10 | M1 | |
| Sulfate | mg/L | 197 | 50 | 50 | 239 | 240 | 84 | 85 | 90-110 | 0 | 10 | M1 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92682927

QC Batch: 794487 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92682927022

METHOD BLANK: 4116654 Matrix: Water

Associated Lab Samples: 92682927022

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 08/18/23 16:41 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 08/18/23 16:41 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 08/18/23 16:41 | |

LABORATORY CONTROL SAMPLE: 4116655

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 49.5 | 99 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.5 | 101 | 90-110 | |
| Sulfate | mg/L | 50 | 48.1 | 96 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4116656 4116657

| Parameter | Units | 92683111001 | | MS | | MSD | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------|-------------|-------------|--------|--------|-------|-------|--------------|-----|---------|------|
| | | Result | Conc. | Spike Conc. | Spike Conc. | Result | Result | | | | | | |
| Chloride | mg/L | 101 | 50 | 50 | 50 | 140 | 143 | 79 | 84 | 90-110 | 2 | 10 M1 | |
| Fluoride | mg/L | 8.0 | 2.5 | 2.5 | 2.5 | 9.2 | 9.3 | 48 | 53 | 90-110 | 1 | 10 M1 | |
| Sulfate | mg/L | 555 | 50 | 50 | 50 | 590 | 596 | 70 | 82 | 90-110 | 1 | 10 M1 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4116658 4116659

| Parameter | Units | 92682998003 | | MS | | MSD | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------|-------------|-------------|--------|--------|-------|-------|--------------|-----|---------|------|
| | | Result | Conc. | Spike Conc. | Spike Conc. | Result | Result | | | | | | |
| Chloride | mg/L | 216 | 50 | 50 | 50 | 259 | 257 | 86 | 81 | 90-110 | 1 | 10 M1 | |
| Fluoride | mg/L | 0.12 | 2.5 | 2.5 | 2.5 | 2.4 | 2.4 | 91 | 93 | 90-110 | 2 | 10 | |
| Sulfate | mg/L | 96.1 | 50 | 50 | 50 | 128 | 127 | 64 | 62 | 90-110 | 1 | 10 M1 | |

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QUALIFIERS

Project: Hammond AP-1

Pace Project No.: 92682927

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1

Pace Project No.: 92682927

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|-----------------|----------|-------------------|------------------|
| 92682398001 | HAM-HGWC-10 | EPA 3010A | 793618 | EPA 6010D | 794582 |
| 92682398002 | HAM-HGWC-11 | EPA 3010A | 793869 | EPA 6010D | 793991 |
| 92682398003 | HAM-HGWC-12 | EPA 3010A | 793869 | EPA 6010D | 793991 |
| 92682398004 | HAM-MW-5 | EPA 3010A | 793869 | EPA 6010D | 793991 |
| 92682398005 | HAM-MW-6 | EPA 3010A | 793869 | EPA 6010D | 793991 |
| 92682398006 | HAM-MW-7 | EPA 3010A | 793869 | EPA 6010D | 793991 |
| 92682398007 | HAM-MW-19 | EPA 3010A | 793869 | EPA 6010D | 793991 |
| 92682398008 | HAM-MW-20 | EPA 3010A | 793869 | EPA 6010D | 793991 |
| 92682398009 | HAM-MW-25D | EPA 3010A | 793869 | EPA 6010D | 793991 |
| 92682398010 | HAM-MW-29 | EPA 3010A | 793869 | EPA 6010D | 793991 |
| 92682397009 | HAM-HGWC-7 | EPA 3010A | 794188 | EPA 6010D | 794575 |
| 92682397010 | HAM-HGWC-8 | EPA 3010A | 794188 | EPA 6010D | 794575 |
| 92682397011 | HAM-HGWC-13 | EPA 3010A | 794188 | EPA 6010D | 794575 |
| 92682397012 | HAM-MW-24D | EPA 3010A | 794188 | EPA 6010D | 794575 |
| 92682397013 | HAM-MW-27D | EPA 3010A | 794188 | EPA 6010D | 794575 |
| 92682397014 | HAM-AP1-EB-01 | EPA 3010A | 794188 | EPA 6010D | 794575 |
| 92682397015 | HAM-AP1-FB-01 | EPA 3010A | 794188 | EPA 6010D | 794575 |
| 92682397016 | HAM-HGWC-9 | EPA 3010A | 794188 | EPA 6010D | 794575 |
| 92682397017 | HAM-MW-26D | EPA 3010A | 794188 | EPA 6010D | 794575 |
| 92682397018 | HAM-MW-28D | EPA 3010A | 794188 | EPA 6010D | 794575 |
| 92682927022 | HAM-AP1-FD-01 | EPA 3010A | 795463 | EPA 6010D | 795706 |
| 92682398001 | HAM-HGWC-10 | EPA 3005A | 794002 | EPA 6020B | 794064 |
| 92682398002 | HAM-HGWC-11 | EPA 3005A | 794002 | EPA 6020B | 794064 |
| 92682398003 | HAM-HGWC-12 | EPA 3005A | 794002 | EPA 6020B | 794064 |
| 92682398004 | HAM-MW-5 | EPA 3005A | 794002 | EPA 6020B | 794064 |
| 92682398005 | HAM-MW-6 | EPA 3005A | 794002 | EPA 6020B | 794064 |
| 92682398006 | HAM-MW-7 | EPA 3005A | 794002 | EPA 6020B | 794064 |
| 92682398007 | HAM-MW-19 | EPA 3005A | 794177 | EPA 6020B | 794304 |
| 92682398008 | HAM-MW-20 | EPA 3005A | 794177 | EPA 6020B | 794304 |
| 92682398009 | HAM-MW-25D | EPA 3005A | 794177 | EPA 6020B | 794304 |
| 92682398010 | HAM-MW-29 | EPA 3005A | 794177 | EPA 6020B | 794304 |
| 92682397009 | HAM-HGWC-7 | EPA 3005A | 794178 | EPA 6020B | 794303 |
| 92682397010 | HAM-HGWC-8 | EPA 3005A | 794178 | EPA 6020B | 794303 |
| 92682397011 | HAM-HGWC-13 | EPA 3005A | 794178 | EPA 6020B | 794303 |
| 92682397012 | HAM-MW-24D | EPA 3005A | 794178 | EPA 6020B | 794303 |
| 92682397013 | HAM-MW-27D | EPA 3005A | 794178 | EPA 6020B | 794303 |
| 92682397014 | HAM-AP1-EB-01 | EPA 3005A | 794178 | EPA 6020B | 794303 |
| 92682397015 | HAM-AP1-FB-01 | EPA 3005A | 794178 | EPA 6020B | 794303 |
| 92682397016 | HAM-HGWC-9 | EPA 3005A | 794178 | EPA 6020B | 794303 |
| 92682397017 | HAM-MW-26D | EPA 3005A | 794178 | EPA 6020B | 794303 |
| 92682397018 | HAM-MW-28D | EPA 3005A | 794885 | EPA 6020B | 794961 |
| 92682927022 | HAM-AP1-FD-01 | EPA 3005A | 794885 | EPA 6020B | 794961 |
| 92682398001 | HAM-HGWC-10 | EPA 7470A | 795034 | EPA 7470A | 795160 |
| 92682398002 | HAM-HGWC-11 | EPA 7470A | 795034 | EPA 7470A | 795160 |
| 92682398003 | HAM-HGWC-12 | EPA 7470A | 795034 | EPA 7470A | 795160 |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1

Pace Project No.: 92682927

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|-----------------|----------|-------------------|------------------|
| 92682398004 | HAM-MW-5 | EPA 7470A | 795034 | EPA 7470A | 795160 |
| 92682398005 | HAM-MW-6 | EPA 7470A | 795034 | EPA 7470A | 795160 |
| 92682398006 | HAM-MW-7 | EPA 7470A | 795034 | EPA 7470A | 795160 |
| 92682398007 | HAM-MW-19 | EPA 7470A | 795034 | EPA 7470A | 795160 |
| 92682398008 | HAM-MW-20 | EPA 7470A | 795034 | EPA 7470A | 795160 |
| 92682398009 | HAM-MW-25D | EPA 7470A | 795036 | EPA 7470A | 795161 |
| 92682398010 | HAM-MW-29 | EPA 7470A | 795036 | EPA 7470A | 795161 |
| 92682397009 | HAM-HGWC-7 | EPA 7470A | 795034 | EPA 7470A | 795160 |
| 92682397010 | HAM-HGWC-8 | EPA 7470A | 795034 | EPA 7470A | 795160 |
| 92682397011 | HAM-HGWC-13 | EPA 7470A | 795034 | EPA 7470A | 795160 |
| 92682397012 | HAM-MW-24D | EPA 7470A | 795034 | EPA 7470A | 795160 |
| 92682397013 | HAM-MW-27D | EPA 7470A | 795034 | EPA 7470A | 795160 |
| 92682397014 | HAM-AP1-EB-01 | EPA 7470A | 795034 | EPA 7470A | 795160 |
| 92682397015 | HAM-AP1-FB-01 | EPA 7470A | 795034 | EPA 7470A | 795160 |
| 92682397016 | HAM-HGWC-9 | EPA 7470A | 795034 | EPA 7470A | 795160 |
| 92682397017 | HAM-MW-26D | EPA 7470A | 795034 | EPA 7470A | 795160 |
| 92682397018 | HAM-MW-28D | EPA 7470A | 795034 | EPA 7470A | 795160 |
| 92682927022 | HAM-AP1-FD-01 | EPA 7470A | 795036 | EPA 7470A | 795161 |
| 92682398001 | HAM-HGWC-10 | SM 2540C-2015 | 793918 | | |
| 92682398002 | HAM-HGWC-11 | SM 2540C-2015 | 793918 | | |
| 92682398003 | HAM-HGWC-12 | SM 2540C-2015 | 793918 | | |
| 92682398004 | HAM-MW-5 | SM 2540C-2015 | 793918 | | |
| 92682398005 | HAM-MW-6 | SM 2540C-2015 | 793918 | | |
| 92682398006 | HAM-MW-7 | SM 2540C-2015 | 793918 | | |
| 92682398007 | HAM-MW-19 | SM 2540C-2015 | 793918 | | |
| 92682398008 | HAM-MW-20 | SM 2540C-2015 | 793918 | | |
| 92682398009 | HAM-MW-25D | SM 2540C-2015 | 793918 | | |
| 92682398010 | HAM-MW-29 | SM 2540C-2015 | 793918 | | |
| 92682397009 | HAM-HGWC-7 | SM 2540C-2015 | 793918 | | |
| 92682397010 | HAM-HGWC-8 | SM 2540C-2015 | 794562 | | |
| 92682397011 | HAM-HGWC-13 | SM 2540C-2015 | 794562 | | |
| 92682397012 | HAM-MW-24D | SM 2540C-2015 | 794562 | | |
| 92682397013 | HAM-MW-27D | SM 2540C-2015 | 794562 | | |
| 92682397014 | HAM-AP1-EB-01 | SM 2540C-2015 | 794562 | | |
| 92682397015 | HAM-AP1-FB-01 | SM 2540C-2015 | 794562 | | |
| 92682397016 | HAM-HGWC-9 | SM 2540C-2015 | 794085 | | |
| 92682397017 | HAM-MW-26D | SM 2540C-2015 | 794085 | | |
| 92682397018 | HAM-MW-28D | SM 2540C-2015 | 794085 | | |
| 92682927022 | HAM-AP1-FD-01 | SM 2540C-2015 | 794562 | | |
| 92682398001 | HAM-HGWC-10 | SM 2320B-2011 | 793988 | | |
| 92682398002 | HAM-HGWC-11 | SM 2320B-2011 | 793988 | | |
| 92682398003 | HAM-HGWC-12 | SM 2320B-2011 | 793988 | | |
| 92682398004 | HAM-MW-5 | SM 2320B-2011 | 793988 | | |
| 92682398005 | HAM-MW-6 | SM 2320B-2011 | 793988 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1

Pace Project No.: 92682927

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|------------------------|----------|-------------------|------------------|
| 92682398006 | HAM-MW-7 | SM 2320B-2011 | 794234 | | |
| 92682398007 | HAM-MW-19 | SM 2320B-2011 | 794234 | | |
| 92682398008 | HAM-MW-20 | SM 2320B-2011 | 794234 | | |
| 92682398009 | HAM-MW-25D | SM 2320B-2011 | 794234 | | |
| 92682398010 | HAM-MW-29 | SM 2320B-2011 | 794234 | | |
| 92682397009 | HAM-HGWC-7 | SM 2320B-2011 | 794235 | | |
| 92682397010 | HAM-HGWC-8 | SM 2320B-2011 | 794235 | | |
| 92682397011 | HAM-HGWC-13 | SM 2320B-2011 | 794235 | | |
| 92682397012 | HAM-MW-24D | SM 2320B-2011 | 794235 | | |
| 92682397013 | HAM-MW-27D | SM 2320B-2011 | 794235 | | |
| 92682397016 | HAM-HGWC-9 | SM 2320B-2011 | 794235 | | |
| 92682397017 | HAM-MW-26D | SM 2320B-2011 | 794235 | | |
| 92682397018 | HAM-MW-28D | SM 2320B-2011 | 794235 | | |
| 92682927022 | HAM-AP1-FD-01 | SM 2320B-2011 | 794644 | | |
| 92682398001 | HAM-HGWC-10 | SM 4500-S2D-2011 | 793501 | | |
| 92682398002 | HAM-HGWC-11 | SM 4500-S2D-2011 | 793501 | | |
| 92682398003 | HAM-HGWC-12 | SM 4500-S2D-2011 | 793501 | | |
| 92682398004 | HAM-MW-5 | SM 4500-S2D-2011 | 793501 | | |
| 92682398005 | HAM-MW-6 | SM 4500-S2D-2011 | 793501 | | |
| 92682398006 | HAM-MW-7 | SM 4500-S2D-2011 | 793501 | | |
| 92682398007 | HAM-MW-19 | SM 4500-S2D-2011 | 793501 | | |
| 92682398008 | HAM-MW-20 | SM 4500-S2D-2011 | 793501 | | |
| 92682398009 | HAM-MW-25D | SM 4500-S2D-2011 | 793501 | | |
| 92682398010 | HAM-MW-29 | SM 4500-S2D-2011 | 793501 | | |
| 92682397009 | HAM-HGWC-7 | SM 4500-S2D-2011 | 794102 | | |
| 92682397010 | HAM-HGWC-8 | SM 4500-S2D-2011 | 794102 | | |
| 92682397011 | HAM-HGWC-13 | SM 4500-S2D-2011 | 794102 | | |
| 92682397012 | HAM-MW-24D | SM 4500-S2D-2011 | 794103 | | |
| 92682397013 | HAM-MW-27D | SM 4500-S2D-2011 | 794103 | | |
| 92682397016 | HAM-HGWC-9 | SM 4500-S2D-2011 | 794102 | | |
| 92682397017 | HAM-MW-26D | SM 4500-S2D-2011 | 794102 | | |
| 92682397018 | HAM-MW-28D | SM 4500-S2D-2011 | 794102 | | |
| 92682927022 | HAM-AP1-FD-01 | SM 4500-S2D-2011 | 794424 | | |
| 92682398001 | HAM-HGWC-10 | EPA 300.0 Rev 2.1 1993 | 793550 | | |
| 92682398002 | HAM-HGWC-11 | EPA 300.0 Rev 2.1 1993 | 793553 | | |
| 92682398003 | HAM-HGWC-12 | EPA 300.0 Rev 2.1 1993 | 793553 | | |
| 92682398004 | HAM-MW-5 | EPA 300.0 Rev 2.1 1993 | 793553 | | |
| 92682398005 | HAM-MW-6 | EPA 300.0 Rev 2.1 1993 | 793553 | | |
| 92682398006 | HAM-MW-7 | EPA 300.0 Rev 2.1 1993 | 793553 | | |
| 92682398007 | HAM-MW-19 | EPA 300.0 Rev 2.1 1993 | 793553 | | |
| 92682398008 | HAM-MW-20 | EPA 300.0 Rev 2.1 1993 | 793553 | | |
| 92682398009 | HAM-MW-25D | EPA 300.0 Rev 2.1 1993 | 793553 | | |
| 92682398010 | HAM-MW-29 | EPA 300.0 Rev 2.1 1993 | 793553 | | |
| 92682397009 | HAM-HGWC-7 | EPA 300.0 Rev 2.1 1993 | 793837 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1

Pace Project No.: 92682927

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|------------------------|----------|-------------------|------------------|
| 92682397010 | HAM-HGWC-8 | EPA 300.0 Rev 2.1 1993 | 793837 | | |
| 92682397011 | HAM-HGWC-13 | EPA 300.0 Rev 2.1 1993 | 793837 | | |
| 92682397012 | HAM-MW-24D | EPA 300.0 Rev 2.1 1993 | 793837 | | |
| 92682397013 | HAM-MW-27D | EPA 300.0 Rev 2.1 1993 | 793837 | | |
| 92682397014 | HAM-AP1-EB-01 | EPA 300.0 Rev 2.1 1993 | 793837 | | |
| 92682397015 | HAM-AP1-FB-01 | EPA 300.0 Rev 2.1 1993 | 793837 | | |
| 92682397016 | HAM-HGWC-9 | EPA 300.0 Rev 2.1 1993 | 793837 | | |
| 92682397017 | HAM-MW-26D | EPA 300.0 Rev 2.1 1993 | 793837 | | |
| 92682397018 | HAM-MW-28D | EPA 300.0 Rev 2.1 1993 | 793837 | | |
| 92682927022 | HAM-AP1-FD-01 | EPA 300.0 Rev 2.1 1993 | 794487 | | |

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta

Sample Condition Upon Receipt

Client Name:

B-A Power

Project #:

WO#: 92682927



Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *9/11/23*
128

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: *230* Type of Ice: Wet Blue None

Cooler Temp: *3.1* Correction Factor: Add/Subtract (°C) *0.0*

Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *3.1*

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | Comments/Discrepancy: |
|---|--|-----------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: | <i>W</i> | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURE Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92682927

PM: BV

Due Date: 08/25/23

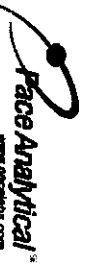
CLIENT: 92- GP-HAM

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic Zn Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFLU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | V5GU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|--|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|
| 1 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document

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

| | |
|---|---|
| <p>Section A Required Client Information: Company: GA Power Address: Atlanta, GA Email To: SCSC Contacts Phone: <input type="checkbox"/> Fax Requested Data Start/End: 10 Day</p> | <p>Section B Required Project Information: Report For: SCSC Contracts Copy To: Geosynthetic Contacts Purchase Order No.: Project Name: Hammond AP-1 Project Number:</p> |
| <p>Section C Invoice Information: Client: Southern Co. Company Name: Address: Phone: Fax: Requested Analysis Filtered (Y/N):</p> | <p>REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER Site Location: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> State: GA</p> |

| ITEM # | Section D Required Client Information | | Valid Matrix Codes | | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | DATE | TIME | DATE | TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | | Analysis Test | Y/N | Requested Analysis Filtered (Y/N) | | | | | | | | | | | | | | | | | |
|--------|--|---------------------------------------|---------------------------------------|-------------|---------------------------------------|-----------------------------|------|--------------|------|------|---------------------------|-----------------|---------------|---------|----|------|-----|-------|----|---------------|-----|-----------------------------------|-------------|--------------------------------|------------------|-----|------|---|----------|-------|--|--|--|--|--|--|--|--|--|
| | Section B Required Client Information | MATRIX CODE (see valid codes to left) | MATRIX CODE (see valid codes to left) | | | | | | | | | | Y/N | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | WATER | WASTE WATER | | | | | | | | | | PRODUCT | CE | WIRE | AIR | OTHER | TS | | | | UNPRESERVED | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₅ | Methanol | Other | | | | | | | | | |
| 1 | HAM-HGWC-10 | | WVG G | 8/10/2023 | 1703 | | | 22 | 7 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | HAM-HGWC-11 | | WVG G | 8/10/2023 | 1131 | | | 21 | 7 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | HAM-HGWC-12 | | WVG G | 8/10/2023 | 1110 | | | 20 | 7 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | HAM-MW-5 | | WVG G | 8/10/2023 | 1442 | | | 19 | 7 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | HAM-MW-6 | | WVG G | 8/10/2023 | 1422 | | | 22 | 7 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | HAM-MW-7 | | WVG G | 8/10/2023 | 1285 | | | 18 | 7 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | HAM-MW-19 | | WVG G | 8/10/2023 | 1503 | | | 23 | 7 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | HAM-MW-20 | | WVG G | 8/10/2023 | 1019 | | | 18 | 7 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | HAM-MW-25D | | WVG G | 8/10/2023 | 1257 | | | 20 | 7 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | HAM-MW-29 | | WVG G | 8/10/2023 | 1015 | | | 21 | 7 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | TK 8/10/2023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|---|---|
| <p>Section D Additional Comments: BAK CODE: HAM-COR-ASSMT-2023S2 KYON WILLIAMSON Kyan William</p> | <p>Section E Relinquished by / Affiliation: 8/10/2023 1312 1535</p> |
|---|---|

| | |
|---|--|
| <p>Section F Accepted by / Affiliation: 8/10/2023 1312 1535</p> | <p>Section G Sample Conditions: Temp in °C: _____ Received on Ice (Y/N): _____ Custody Sealed Cooler (Y/N): _____ Samples Intact (Y/N): _____</p> |
|---|--|

SAMPLER NAME AND SIGNATURE
 RIGHT Name of SAMPLER: Kyan Williamson
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 08/10/2023

Important Note: By signing this form you are accepting Face Analytical 30 day payment terms and agreeing to rate changes of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020 (rev.07, 15-Feb-2007)



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition Upon Receipt

Client Name:

GC Power

Project #:

WO#: 92682927

PH: BV

Due Date: 08/25/23

CLIENT: 92- GP-HAM

Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Custody Seal Present? Yes No Seals intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID:

24

Type of Ice: Wet Blue None

Cooler Temp:

3.9

Correction Factor:

Add/Subtract (°C)

0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

3.9

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | Comments/Discrepancy: |
|---|---|--|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 9. HAM-AP-1FD-01 taken @ 08/24/23 @ 0900 not listed on COC |
| -Includes Date/Time/ID/Analysis Matrix: <u>WG</u> | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92682927

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

PM: BV

Due Date: 08/25/23

CLIENT: 92- GP-HAM

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | V5GU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|--|
| 1 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Required Client Information:
 Company: GA Power
 Address: Atlanta, GA

Section B
 Required Project Information:
 Report To: SCS Contacts
 Copy To: Geosyntec Contacts

Section C
 Invoicing Information:
 Antitrust: Southern Co.
 Company Name:
 Address:
 Fax/Quote Reference:
 Project Name: Hammond AP-1
 Project Number:
 State: GA

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER
 Site Location: _____ STATE: _____

Page: 1 of 1

Section D
 Required Client Information:
 Valid Matrix Codes:
 MATRIX CODE (see valid codes to left)
 SAMPLE TYPE (G=GRAB Q=COMP)
 DATE TIME DATE TIME
 SAMPLE TEMP AT COLLECTION
 # OF CONTAINERS
 Unpreserved
 H₂SO₄
 HNO₃
 HCl
 NaOH
 Na₂S₂O₈
 Methanol
 Other
 Analysis Test
 Chloride, Fluoride, Sulfate
 Full App. III and IV metals
 RAD 228/228
 TDS
 Major ions (Profile 10839-2):
 Residual Chlorine (Y/N)
 PACE Project No./Lab ID.

| # | Section D Required Client Information | Valid Matrix Codes MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB Q=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | | Analysis Test | | | | Residual Chlorine (Y/N) | PACE Project No./Lab ID. | | | | |
|----|--|---|-----------------------------|-----------|------|---------------------------|-----------------|---------------|------|--------------------------------|------------------|-----|------|---|---------------|-------|---|---|-------------------------|--------------------------|---|---|---|---|
| | | | | DATE | TIME | | | DATE | TIME | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₈ | Methanol | Other | W | N | | | N | N | N | N |
| 1 | HAM-HGWC-7 | WG G | G | 8/12/2023 | 1435 | | 7 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | X | X | X | X | X | X | X | | |
| 2 | HAM-HGWC-8 | WG G | G | 8/12/2023 | 0832 | | 7 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | X | X | X | X | X | X | X | | |
| 3 | HAM-HGWC-13 | WG G | G | 8/12/2023 | 1205 | | 7 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | X | X | X | X | X | X | X | | |
| 4 | HAM-MW-24D | WG G | G | 8/12/2023 | 1915 | | 7 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | X | X | X | X | X | X | X | | |
| 5 | HAM-MW-27D | WG G | G | 8/12/2023 | 1420 | | 7 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | X | X | X | X | X | X | X | | |
| 6 | HAM-AP1-EB-01 | WG G | G | 8/12/2023 | 1335 | | 7 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | X | X | X | X | X | X | X | | |
| 7 | HAM-AP1-EB-01 | WG G | G | 8/12/2023 | 1330 | TK 8/12/2023 | 7 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | X | X | X | X | X | X | X | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | TK 8/12/2023 | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |

ADDITIONAL COMMENTS
 Task Code: HAM-COR-ASSMT-20232

RELINQUISHED BY / AFFILIATION
 Thomas Vesilic / Geosyntec
 Kyle Williams / Pac

DATE
 8/14/2023
 8/14/2023

TIME
 1115
 1332

ACCEPTED BY / AFFILIATION
 Kyle Williams / Pac
 FCC / Pac

DATE
 8/14/2023
 8/14/2023

TIME
 1115
 1331

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Thomas Vesilic / Geosyntec
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM/DD/YYYY): 08/12/23

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

Important Note: By signing this form you are accepting Pac's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any balances not paid within 30 days.

F-ALL-Q-02/Rev. 07, 15-F-08-2007



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta

Sample Condition Upon Receipt

Client Name: Go Power

Project # **WO# : 92682927**

PM: BV Due Date: 08/25/23
CLIENT: 92- GP-HAM

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 3.9 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.9

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | Comments/Discrepancy: |
|--|--|-----------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: <u>W/G</u> | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92682927

PM: BV

Due Date: 08/25/23

CLIENT: 92- GP-HAM

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGJU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP9R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|--|
| 1 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).



September 14, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1 RAD
Pace Project No.: 92682401

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory between August 11, 2023 and August 14, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec



REPORT OF LABORATORY ANALYSIS

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



CERTIFICATIONS

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

ANABISO/IEC 17025:2017 Rad Cert#: L24170

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 2950

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA010

Louisiana DEQ/TNI Certification #: 04086

Maine Certification #: 2023021

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572023-03

New Hampshire/TNI Certification #: 297622

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-015

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN02867

Texas/TNI Certification #: T104704188-22-18

Utah/TNI Certification #: PA014572223-14

USDA Soil Permit #: 525-23-67-77263

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------|--------|----------------|----------------|
| 92682401001 | HAM-HGWC-10 | Water | 08/10/23 17:03 | 08/11/23 13:12 |
| 92682401002 | HAM-HGWC-11 | Water | 08/10/23 11:31 | 08/11/23 13:12 |
| 92682401003 | HAM-HGWC-12 | Water | 08/10/23 11:10 | 08/11/23 13:12 |
| 92682401004 | HAM-MW-5 | Water | 08/10/23 11:42 | 08/11/23 13:12 |
| 92682401005 | HAM-MW-6 | Water | 08/10/23 14:22 | 08/11/23 13:12 |
| 92682401006 | HAM-MW-7 | Water | 08/10/23 12:55 | 08/11/23 13:12 |
| 92682401007 | HAM-MW-19 | Water | 08/10/23 15:03 | 08/11/23 13:12 |
| 92682401008 | HAM-MW-20 | Water | 08/10/23 10:19 | 08/11/23 13:12 |
| 92682401009 | HAM-MW-25D | Water | 08/10/23 12:57 | 08/11/23 13:12 |
| 92682401010 | HAM-MW-29 | Water | 08/10/23 16:15 | 08/11/23 13:12 |
| 92682401011 | HAM-HGWC-7 | Water | 08/12/23 14:35 | 08/14/23 11:15 |
| 92682401012 | HAM-HGWC-8 | Water | 08/12/23 09:32 | 08/14/23 11:15 |
| 92682401013 | HAM-HGWC-13 | Water | 08/12/23 12:05 | 08/14/23 11:15 |
| 92682401014 | HAM-MW-24D | Water | 08/12/23 10:15 | 08/14/23 11:15 |
| 92682401015 | HAM-MW-27D | Water | 08/12/23 14:20 | 08/14/23 11:15 |
| 92682401016 | HAM-AP1-EB-01 | Water | 08/12/23 13:35 | 08/14/23 11:15 |
| 92682401017 | HAM-AP1-FB-01 | Water | 08/12/23 13:30 | 08/14/23 11:15 |
| 92682401018 | HAM-HGWC-9 | Water | 08/11/23 17:03 | 08/14/23 11:15 |
| 92682401019 | HAM-MW-26D | Water | 08/11/23 16:54 | 08/14/23 11:15 |
| 92682401020 | HAM-MW-28D | Water | 08/11/23 15:14 | 08/14/23 11:15 |
| 92682401021 | HAM-AP1-FD-01 | Water | 08/12/23 00:00 | 08/14/23 13:22 |

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



SAMPLE ANALYTE COUNT

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-------------|--------------------------|----------|-------------------|------------|
| 92682401001 | HAM-HGWC-10 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92682401002 | HAM-HGWC-11 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92682401003 | HAM-HGWC-12 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92682401004 | HAM-MW-5 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92682401005 | HAM-MW-6 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92682401006 | HAM-MW-7 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92682401007 | HAM-MW-19 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92682401008 | HAM-MW-20 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92682401009 | HAM-MW-25D | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92682401010 | HAM-MW-29 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92682401011 | HAM-HGWC-7 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92682401012 | HAM-HGWC-8 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92682401013 | HAM-HGWC-13 | EPA 9315 | SLC | 1 | PASI-PA |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|---------------|--------------------------|----------|-------------------|------------|
| 92682401014 | HAM-MW-24D | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | ZPC | 1 | PASI-PA |
| 92682401015 | HAM-MW-27D | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92682401016 | HAM-AP1-EB-01 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| 92682401017 | HAM-AP1-FB-01 | EPA 9320 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | ZPC | 1 | PASI-PA |
| 92682401018 | HAM-HGWC-9 | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92682401019 | HAM-MW-26D | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| 92682401020 | HAM-MW-28D | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| 92682401021 | HAM-AP1-FD-01 | Total Radium Calculation | LAL | 1 | PASI-PA |
| | | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------------|--------------------------------|--|-------|--------------|----------------|------------|
| 92682401001 HAM-HGWC-10 | | | | | | |
| EPA 9315 | Radium-226 | 0.192U ± 0.182 (0.357) C:82% T:NA | pCi/L | | 09/06/23 10:19 | |
| EPA 9320 | Radium-228 | 0.639U ± 0.452 (0.883) C:88% T:71% | pCi/L | | 08/31/23 12:14 | |
| Total Radium Calculation | Total Radium | 0.831U ± 0.634 (1.24) | pCi/L | | 09/06/23 15:35 | |
| 92682401002 HAM-HGWC-11 | | | | | | |
| EPA 9315 | Radium-226 | 0.273U ± 0.186 (0.311) C:89% T:NA | pCi/L | | 09/06/23 10:20 | |
| EPA 9320 | Radium-228 | -0.191U ± 0.420 (1.00) C:82% T:75% | pCi/L | | 08/31/23 12:14 | |
| Total Radium Calculation | Total Radium | 0.273U ± 0.606 (1.31) | pCi/L | | 09/06/23 15:35 | |
| 92682401003 HAM-HGWC-12 | | | | | | |
| EPA 9315 | Radium-226 | 0.178U ± 0.190 (0.393) C:92% T:NA | pCi/L | | 09/06/23 10:18 | |
| EPA 9320 | Radium-228 | 0.275U ± 0.582 (1.29) C:87% T:45% | pCi/L | | 08/31/23 12:14 | |
| Total Radium Calculation | Total Radium | 0.453U ± 0.772 (1.68) | pCi/L | | 09/06/23 15:35 | |
| 92682401004 HAM-MW-5 | | | | | | |
| EPA 9315 | Radium-226 | 0.280U ± 0.181 (0.290) C:90% T:NA | pCi/L | | 09/06/23 10:18 | |
| EPA 9320 | Radium-228 | 0.319U ± 0.331 (0.679) C:82% T:73% | pCi/L | | 08/31/23 12:15 | |
| Total Radium Calculation | Total Radium | 0.599U ± 0.512 (0.969) | pCi/L | | 09/06/23 15:35 | |

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SUMMARY OF DETECTION

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------|--------------------------------|--|-------|--------------|----------------|------------|
| 92682401005 | HAM-MW-6 | | | | | |
| EPA 9315 | Radium-226 | 0.127U ± 0.153 (0.319) | pCi/L | | 09/06/23 10:18 | |
| EPA 9320 | Radium-228 | C:87% T:NA 0.712 ± 0.378 (0.643) | pCi/L | | 08/31/23 12:15 | |
| Total Radium Calculation | Total Radium | C:81% T:75% 0.839U ± 0.531 (0.962) | pCi/L | | 09/06/23 15:35 | |
| 92682401006 | HAM-MW-7 | | | | | |
| EPA 9315 | Radium-226 | 0.232U ± 0.180 (0.319) | pCi/L | | 09/06/23 10:18 | |
| EPA 9320 | Radium-228 | C:83% T:NA 0.00694U ± 0.313 (0.732) | pCi/L | | 08/31/23 12:15 | |
| Total Radium Calculation | Total Radium | C:86% T:76% 0.239U ± 0.493 (1.05) | pCi/L | | 09/06/23 15:35 | |
| 92682401007 | HAM-MW-19 | | | | | |
| EPA 9315 | Radium-226 | 0.172U ± 0.159 (0.307) | pCi/L | | 09/06/23 10:18 | |
| EPA 9320 | Radium-228 | C:94% T:NA 0.265U ± 0.362 (0.775) | pCi/L | | 08/31/23 12:15 | |
| Total Radium Calculation | Total Radium | C:82% T:76% 0.437U ± 0.521 (1.08) | pCi/L | | 09/06/23 15:35 | |
| 92682401008 | HAM-MW-20 | | | | | |
| EPA 9315 | Radium-226 | -0.00522U ± 0.142 (0.382) | pCi/L | | 09/06/23 18:47 | |
| EPA 9320 | Radium-228 | C:76% T:NA 0.469U ± 0.379 (0.745) | pCi/L | | 08/31/23 12:15 | |
| Total Radium Calculation | Total Radium | C:83% T:68% 0.469U ± 0.521 (1.13) | pCi/L | | 09/11/23 09:31 | |

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SUMMARY OF DETECTION

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------|--------------------------------|--|-------|--------------|----------------|------------|
| 92682401009 | HAM-MW-25D | | | | | |
| EPA 9315 | Radium-226 | 0.740 ± 0.264 (0.278) C:95% T:NA | pCi/L | | 09/06/23 18:48 | |
| EPA 9320 | Radium-228 | 0.232U ± 0.305 (0.649) C:79% T:87% | pCi/L | | 08/31/23 12:15 | |
| Total Radium Calculation | Total Radium | 0.972 ± 0.569 (0.927) | pCi/L | | 09/11/23 09:31 | |
| 92682401010 | HAM-MW-29 | | | | | |
| EPA 9315 | Radium-226 | 0.0392U ± 0.111 (0.271) C:89% T:NA | pCi/L | | 09/06/23 18:49 | |
| EPA 9320 | Radium-228 | 0.205U ± 0.361 (0.788) C:83% T:72% | pCi/L | | 08/31/23 12:15 | |
| Total Radium Calculation | Total Radium | 0.244U ± 0.472 (1.06) | pCi/L | | 09/11/23 09:31 | |
| 92682401011 | HAM-HGWC-7 | | | | | |
| EPA 9315 | Radium-226 | 0.223U ± 0.284 (0.605) C:81% T:NA | pCi/L | | 09/13/23 10:03 | |
| EPA 9320 | Radium-228 | 0.506U ± 0.308 (0.563) C:88% T:93% | pCi/L | | 09/06/23 15:48 | |
| Total Radium Calculation | Total Radium | 0.729U ± 0.592 (1.17) | pCi/L | | 09/13/23 14:27 | |
| 92682401012 | HAM-HGWC-8 | | | | | |
| EPA 9315 | Radium-226 | 0.266U ± 0.265 (0.522) C:88% T:NA | pCi/L | | 09/13/23 10:03 | |
| EPA 9320 | Radium-228 | 0.501U ± 0.346 (0.661) C:82% T:87% | pCi/L | | 09/06/23 15:48 | |
| Total Radium Calculation | Total Radium | 0.767U ± 0.611 (1.18) | pCi/L | | 09/13/23 14:27 | |

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SUMMARY OF DETECTION

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------|--------------------------------|--|-------|--------------|----------------|------------|
| 92682401013 | HAM-HGWC-13 | | | | | |
| EPA 9315 | Radium-226 | 0.212U ± 0.251 (0.522) C:87% T:NA | pCi/L | | 09/13/23 10:03 | |
| EPA 9320 | Radium-228 | 0.368U ± 0.306 (0.604) C:88% T:80% | pCi/L | | 09/06/23 15:48 | |
| Total Radium Calculation | Total Radium | 0.580U ± 0.557 (1.13) | pCi/L | | 09/13/23 14:27 | |
| 92682401014 | HAM-MW-24D | | | | | |
| EPA 9315 | Radium-226 | -0.0136U ± 0.255 (0.718) C:55% T:NA | pCi/L | | 09/13/23 10:03 | |
| EPA 9320 | Radium-228 | 0.481U ± 0.320 (0.604) C:87% T:89% | pCi/L | | 09/06/23 15:48 | |
| Total Radium Calculation | Total Radium | 0.481U ± 0.575 (1.32) | pCi/L | | 09/13/23 14:27 | |
| 92682401015 | HAM-MW-27D | | | | | |
| EPA 9315 | Radium-226 | 0.426U ± 0.304 (0.529) C:94% T:NA | pCi/L | | 09/13/23 10:03 | |
| EPA 9320 | Radium-228 | 0.219U ± 0.310 (0.665) C:84% T:91% | pCi/L | | 09/06/23 15:48 | |
| Total Radium Calculation | Total Radium | 0.645U ± 0.614 (1.19) | pCi/L | | 09/13/23 14:27 | |
| 92682401016 | HAM-AP1-EB-01 | | | | | |
| EPA 9315 | Radium-226 | 0.0390U ± 0.239 (0.614) C:76% T:NA | pCi/L | | 09/13/23 10:03 | |
| EPA 9320 | Radium-228 | 0.644U ± 0.378 (0.694) C:81% T:91% | pCi/L | | 09/06/23 15:45 | |
| Total Radium Calculation | Total Radium | 0.683U ± 0.617 (1.31) | pCi/L | | 09/13/23 14:27 | |

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SUMMARY OF DETECTION

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------|--------------------------------|---|-------|--------------|----------------|------------|
| 92682401017 | HAM-AP1-FB-01 | | | | | |
| EPA 9315 | Radium-226 | -0.0993U ± 0.147 (0.498) | pCi/L | | 09/13/23 10:04 | |
| EPA 9320 | Radium-228 | C:83% T:NA 0.551U ± 0.317 (0.565) | pCi/L | | 09/06/23 15:45 | |
| Total Radium Calculation | Total Radium | C:86% T:94% 0.551U ± 0.464 (1.06) | pCi/L | | 09/13/23 14:27 | |
| 92682401018 | HAM-HGWC-9 | | | | | |
| EPA 9315 | Radium-226 | 0.231U ± 0.256 (0.516) | pCi/L | | 09/13/23 10:04 | |
| EPA 9320 | Radium-228 | C:80% T:NA 0.636 ± 0.329 (0.563) | pCi/L | | 09/07/23 11:47 | |
| Total Radium Calculation | Total Radium | C:85% T:81% 0.867U ± 0.585 (1.08) | pCi/L | | 09/13/23 14:27 | |
| 92682401019 | HAM-MW-26D | | | | | |
| EPA 9315 | Radium-226 | 0.298U ± 0.255 (0.454) | pCi/L | | 09/13/23 10:04 | |
| EPA 9320 | Radium-228 | C:81% T:NA 0.252U ± 0.270 (0.559) | pCi/L | | 09/07/23 11:47 | |
| Total Radium Calculation | Total Radium | C:84% T:85% 0.550U ± 0.525 (1.01) | pCi/L | | 09/13/23 14:27 | |
| 92682401020 | HAM-MW-28D | | | | | |
| EPA 9315 | Radium-226 | 1.16 ± 0.443 (0.538) | pCi/L | | 09/13/23 10:04 | |
| EPA 9320 | Radium-228 | C:97% T:NA 1.50 ± 0.514 (0.749) | pCi/L | | 09/07/23 11:47 | |
| Total Radium Calculation | Total Radium | C:82% T:92% 2.66 ± 0.957 (1.29) | pCi/L | | 09/13/23 14:27 | |

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SUMMARY OF DETECTION

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------|--------------------------------|---|-------|--------------|----------------|------------|
| 92682401021 | HAM-AP1-FD-01 | | | | | |
| EPA 9315 | Radium-226 | -0.0521U ± 0.198 (0.578) | pCi/L | | 09/13/23 10:04 | |
| EPA 9320 | Radium-228 | C:72% T:NA 0.302U ± 0.351 (0.740) | pCi/L | | 09/07/23 11:47 | |
| Total Radium Calculation | Total Radium | C:80% T:88% 0.302U ± 0.549 (1.32) | pCi/L | | 09/13/23 14:27 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

Sample: HAM-HGWC-10 **Lab ID: 92682401001** Collected: 08/10/23 17:03 Received: 08/11/23 13:12 Matrix: Water
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 | 0.192U ± 0.182 (0.357) C:82% T:NA | pCi/L | 09/06/23 10:19 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.639U ± 0.452 (0.883) C:88% T:71% | pCi/L | 08/31/23 12:14 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.831U ± 0.634 (1.24) | pCi/L | 09/06/23 15:35 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|--------------------------|---|-------|----------------|------------|------|
| Sample: HAM-HGWC-11 Lab ID: 92682401002 Collected: 08/10/23 11:31 Received: 08/11/23 13:12 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.273U ± 0.186 (0.311) C:89% T:NA | pCi/L | 09/06/23 10:20 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | -0.191U ± 0.420 (1.00) C:82% T:75% | pCi/L | 08/31/23 12:14 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.273U ± 0.606 (1.31) | pCi/L | 09/06/23 15:35 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|--------------------------|--|-------|----------------|------------|------|
| Sample: HAM-HGWC-12 Lab ID: 92682401003 Collected: 08/10/23 11:10 Received: 08/11/23 13:12 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.178U ± 0.190 (0.393) C:92% T:NA | pCi/L | 09/06/23 10:18 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.275U ± 0.582 (1.29) C:87% T:45% | pCi/L | 08/31/23 12:14 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.453U ± 0.772 (1.68) | pCi/L | 09/06/23 15:35 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|---|-------|----------------|------------|------|
| Sample: HAM-MW-5 Lab ID: 92682401004 Collected: 08/10/23 11:42 Received: 08/11/23 13:12 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.280U ± 0.181 (0.290) C:90% T:NA | pCi/L | 09/06/23 10:18 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.319U ± 0.331 (0.679) C:82% T:73% | pCi/L | 08/31/23 12:15 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.599U ± 0.512 (0.969) | pCi/L | 09/06/23 15:35 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

Sample: HAM-MW-6 **Lab ID: 92682401005** Collected: 08/10/23 14:22 Received: 08/11/23 13:12 Matrix: Water
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 | 0.127U ± 0.153 (0.319) C:87% T:NA | pCi/L | 09/06/23 10:18 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.712 ± 0.378 (0.643) C:81% T:75% | pCi/L | 08/31/23 12:15 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.839U ± 0.531 (0.962) | pCi/L | 09/06/23 15:35 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|---|-------|----------------|------------|------|
| Sample: HAM-MW-7 Lab ID: 92682401006 Collected: 08/10/23 12:55 Received: 08/11/23 13:12 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.232U ± 0.180 (0.319) C:83% T:NA | pCi/L | 09/06/23 10:18 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.00694U ± 0.313 (0.732) C:86% T:76% | pCi/L | 08/31/23 12:15 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.239U ± 0.493 (1.05) | pCi/L | 09/06/23 15:35 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|--------------------------|---|-------|----------------|------------|------|
| Sample: HAM-MW-19 Lab ID: 92682401007 Collected: 08/10/23 15:03 Received: 08/11/23 13:12 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.172U ± 0.159 (0.307) C:94% T:NA | pCi/L | 09/06/23 10:18 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.265U ± 0.362 (0.775) C:82% T:76% | pCi/L | 08/31/23 12:15 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.437U ± 0.521 (1.08) | pCi/L | 09/06/23 15:35 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|--------------------------|---|-------|----------------|------------|------|
| Sample: HAM-MW-20 Lab ID: 92682401008 Collected: 08/10/23 10:19 Received: 08/11/23 13:12 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | -0.00522U ± 0.142 (0.382) C:76% T:NA | pCi/L | 09/06/23 18:47 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.469U ± 0.379 (0.745) C:83% T:68% | pCi/L | 08/31/23 12:15 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.469U ± 0.521 (1.13) | pCi/L | 09/11/23 09:31 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|---|-------|----------------|------------|------|
| Sample: HAM-MW-25D Lab ID: 92682401009 Collected: 08/10/23 12:57 Received: 08/11/23 13:12 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.740 ± 0.264 (0.278) C:95% T:NA | pCi/L | 09/06/23 18:48 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.232U ± 0.305 (0.649) C:79% T:87% | pCi/L | 08/31/23 12:15 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.972 ± 0.569 (0.927) | pCi/L | 09/11/23 09:31 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

Sample: HAM-MW-29 **Lab ID: 92682401010** Collected: 08/10/23 16:15 Received: 08/11/23 13:12 Matrix: Water
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 | 0.0392U ± 0.111 (0.271) C:89% T:NA | pCi/L | 09/06/23 18:49 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.205U ± 0.361 (0.788) C:83% T:72% | pCi/L | 08/31/23 12:15 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.244U ± 0.472 (1.06) | pCi/L | 09/11/23 09:31 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

Sample: HAM-HGWC-7 **Lab ID: 92682401011** Collected: 08/12/23 14:35 Received: 08/14/23 11:15 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 | 0.223U ± 0.284 (0.605) C:81% T:NA | pCi/L | 09/13/23 10:03 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.506U ± 0.308 (0.563) C:88% T:93% | pCi/L | 09/06/23 15:48 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.729U ± 0.592 (1.17) | pCi/L | 09/13/23 14:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

Sample: HAM-HGWC-8 **Lab ID: 92682401012** Collected: 08/12/23 09:32 Received: 08/14/23 11:15 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 | 0.266U ± 0.265 (0.522) C:88% T:NA | pCi/L | 09/13/23 10:03 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.501U ± 0.346 (0.661) C:82% T:87% | pCi/L | 09/06/23 15:48 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.767U ± 0.611 (1.18) | pCi/L | 09/13/23 14:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

Sample: HAM-HGWC-13 **Lab ID: 92682401013** Collected: 08/12/23 12:05 Received: 08/14/23 11:15 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 | 0.212U ± 0.251 (0.522) C:87% T:NA | pCi/L | 09/13/23 10:03 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.368U ± 0.306 (0.604) C:88% T:80% | pCi/L | 09/06/23 15:48 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.580U ± 0.557 (1.13) | pCi/L | 09/13/23 14:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---------------------------------------|--|-------|----------------|------------|------|
| Sample: HAM-MW-24D Lab ID: 92682401014 Collected: 08/12/23 10:15 Received: 08/14/23 11:15 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | -0.0136U ± 0.255 (0.718) C:55% T:NA | pCi/L | 09/13/23 10:03 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.481U ± 0.320 (0.604) C:87% T:89% | pCi/L | 09/06/23 15:48 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.481U ± 0.575 (1.32) | pCi/L | 09/13/23 14:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|---|-------|----------------|------------|------|
| Sample: HAM-MW-27D Lab ID: 92682401015 Collected: 08/12/23 14:20 Received: 08/14/23 11:15 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.426U ± 0.304 (0.529) C:94% T:NA | pCi/L | 09/13/23 10:03 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.219U ± 0.310 (0.665) C:84% T:91% | pCi/L | 09/06/23 15:48 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.645U ± 0.614 (1.19) | pCi/L | 09/13/23 14:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|---------------------------------------|---|-------|----------------|------------|------|
| Sample: HAM-AP1-EB-01 Lab ID: 92682401016 Collected: 08/12/23 13:35 Received: 08/14/23 11:15 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0390U ± 0.239 (0.614) C:76% T:NA | pCi/L | 09/13/23 10:03 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.644U ± 0.378 (0.694) C:81% T:91% | pCi/L | 09/06/23 15:45 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.683U ± 0.617 (1.31) | pCi/L | 09/13/23 14:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

Sample: HAM-AP1-FB-01 **Lab ID: 92682401017** Collected: 08/12/23 13:30 Received: 08/14/23 11:15 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 | -0.0993U ± 0.147 (0.498) C:83% T:NA | pCi/L | 09/13/23 10:04 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.551U ± 0.317 (0.565) C:86% T:94% | pCi/L | 09/06/23 15:45 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.551U ± 0.464 (1.06) | pCi/L | 09/13/23 14:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|--|-------|----------------|------------|------|
| Sample: HAM-HGWC-9 Lab ID: 92682401018 Collected: 08/11/23 17:03 Received: 08/14/23 11:15 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.231U ± 0.256 (0.516) C:80% T:NA | pCi/L | 09/13/23 10:04 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.636 ± 0.329 (0.563) C:85% T:81% | pCi/L | 09/07/23 11:47 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.867U ± 0.585 (1.08) | pCi/L | 09/13/23 14:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|---|-------|----------------|------------|------|
| Sample: HAM-MW-26D Lab ID: 92682401019 Collected: 08/11/23 16:54 Received: 08/14/23 11:15 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.298U ± 0.255 (0.454) C:81% T:NA | pCi/L | 09/13/23 10:04 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.252U ± 0.270 (0.559) C:84% T:85% | pCi/L | 09/07/23 11:47 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.550U ± 0.525 (1.01) | pCi/L | 09/13/23 14:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

Sample: HAM-MW-28D **Lab ID: 92682401020** Collected: 08/11/23 15:14 Received: 08/14/23 11:15 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 | 1.16 ± 0.443 (0.538) C:97% T:NA | pCi/L | 09/13/23 10:04 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 1.50 ± 0.514 (0.749) C:82% T:92% | pCi/L | 09/07/23 11:47 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 2.66 ± 0.957 (1.29) | pCi/L | 09/13/23 14:27 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

Sample: HAM-AP1-FD-01 **Lab ID: 92682401021** Collected: 08/12/23 00:00 Received: 08/14/23 13:22 Matrix: Water
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 | -0.0521U ± 0.198 (0.578) C:72% T:NA | pCi/L | 09/13/23 10:04 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.302U ± 0.351 (0.740) C:80% T:88% | pCi/L | 09/07/23 11:47 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.302U ± 0.549 (1.32) | pCi/L | 09/13/23 14:27 | 7440-14-4 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-1 RAD
 Pace Project No.: 92682401

| | | | |
|------------------|----------|-----------------------|---------------------------------------|
| QC Batch: | 611587 | Analysis Method: | EPA 9320 |
| QC Batch Method: | EPA 9320 | Analysis Description: | 9320 Radium 228 |
| | | Laboratory: | Pace Analytical Services - Greensburg |

Associated Lab Samples: 92682401018, 92682401019, 92682401020, 92682401021

METHOD BLANK: 2976848 Matrix: Water
 Associated Lab Samples: 92682401018, 92682401019, 92682401020, 92682401021

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.386 ± 0.277 (0.528) C:83% T:92% | pCi/L | 09/07/23 11:47 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| | | | |
|------------------|----------|-----------------------|---------------------------------------|
| QC Batch: | 610549 | Analysis Method: | EPA 9320 |
| QC Batch Method: | EPA 9320 | Analysis Description: | 9320 Radium 228 |
| | | Laboratory: | Pace Analytical Services - Greensburg |

Associated Lab Samples: 92682401001, 92682401002, 92682401003, 92682401004, 92682401005, 92682401006, 92682401007, 92682401008, 92682401009, 92682401010

| | | | |
|---------------|---------|---------|-------|
| METHOD BLANK: | 2971498 | Matrix: | Water |
|---------------|---------|---------|-------|

Associated Lab Samples: 92682401001, 92682401002, 92682401003, 92682401004, 92682401005, 92682401006, 92682401007, 92682401008, 92682401009, 92682401010

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.453 ± 0.248 (0.409) C:88% T:87% | pCi/L | 08/31/23 12:16 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

QC Batch: 611586

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92682401011, 92682401012, 92682401013, 92682401014, 92682401015, 92682401016, 92682401017

METHOD BLANK: 2976847

Matrix: Water

Associated Lab Samples: 92682401011, 92682401012, 92682401013, 92682401014, 92682401015, 92682401016, 92682401017

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.830 ± 0.342 (0.491) C:81% T:89% | pCi/L | 09/06/23 15:45 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| | | | |
|------------------|----------|-----------------------|---------------------------------------|
| QC Batch: | 612651 | Analysis Method: | EPA 9315 |
| QC Batch Method: | EPA 9315 | Analysis Description: | 9315 Total Radium |
| | | Laboratory: | Pace Analytical Services - Greensburg |

Associated Lab Samples: 92682401011, 92682401012, 92682401013, 92682401014, 92682401015, 92682401016, 92682401017, 92682401018, 92682401019, 92682401020, 92682401021

| | | | |
|---------------|---------|---------|-------|
| METHOD BLANK: | 2982186 | Matrix: | Water |
|---------------|---------|---------|-------|

Associated Lab Samples: 92682401011, 92682401012, 92682401013, 92682401014, 92682401015, 92682401016, 92682401017, 92682401018, 92682401019, 92682401020, 92682401021

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|----------------------------------|-------|----------------|------------|
| Radium-226 | 0.199 ± 0.286 (0.622) C:88% T:NA | pCi/L | 09/12/23 18:19 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| | | | |
|------------------|----------|-----------------------|---------------------------------------|
| QC Batch: | 610646 | Analysis Method: | EPA 9315 |
| QC Batch Method: | EPA 9315 | Analysis Description: | 9315 Total Radium |
| | | Laboratory: | Pace Analytical Services - Greensburg |

Associated Lab Samples: 92682401001, 92682401002, 92682401003, 92682401004, 92682401005, 92682401006, 92682401007, 92682401008, 92682401009, 92682401010

| | | | |
|---------------|---------|---------|-------|
| METHOD BLANK: | 2971911 | Matrix: | Water |
|---------------|---------|---------|-------|

Associated Lab Samples: 92682401001, 92682401002, 92682401003, 92682401004, 92682401005, 92682401006, 92682401007, 92682401008, 92682401009, 92682401010

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-226 | 0.0783 ± 0.129 (0.288) C:89% T:NA | pCi/L | 09/06/23 10:17 | |

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QUALIFIERS

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|--------------------------|----------|-------------------|------------------|
| 92682401001 | HAM-HGWC-10 | EPA 9315 | 610646 | | |
| 92682401002 | HAM-HGWC-11 | EPA 9315 | 610646 | | |
| 92682401003 | HAM-HGWC-12 | EPA 9315 | 610646 | | |
| 92682401004 | HAM-MW-5 | EPA 9315 | 610646 | | |
| 92682401005 | HAM-MW-6 | EPA 9315 | 610646 | | |
| 92682401006 | HAM-MW-7 | EPA 9315 | 610646 | | |
| 92682401007 | HAM-MW-19 | EPA 9315 | 610646 | | |
| 92682401008 | HAM-MW-20 | EPA 9315 | 610646 | | |
| 92682401009 | HAM-MW-25D | EPA 9315 | 610646 | | |
| 92682401010 | HAM-MW-29 | EPA 9315 | 610646 | | |
| 92682401011 | HAM-HGWC-7 | EPA 9315 | 612651 | | |
| 92682401012 | HAM-HGWC-8 | EPA 9315 | 612651 | | |
| 92682401013 | HAM-HGWC-13 | EPA 9315 | 612651 | | |
| 92682401014 | HAM-MW-24D | EPA 9315 | 612651 | | |
| 92682401015 | HAM-MW-27D | EPA 9315 | 612651 | | |
| 92682401016 | HAM-AP1-EB-01 | EPA 9315 | 612651 | | |
| 92682401017 | HAM-AP1-FB-01 | EPA 9315 | 612651 | | |
| 92682401018 | HAM-HGWC-9 | EPA 9315 | 612651 | | |
| 92682401019 | HAM-MW-26D | EPA 9315 | 612651 | | |
| 92682401020 | HAM-MW-28D | EPA 9315 | 612651 | | |
| 92682401021 | HAM-AP1-FD-01 | EPA 9315 | 612651 | | |
| 92682401001 | HAM-HGWC-10 | EPA 9320 | 610549 | | |
| 92682401002 | HAM-HGWC-11 | EPA 9320 | 610549 | | |
| 92682401003 | HAM-HGWC-12 | EPA 9320 | 610549 | | |
| 92682401004 | HAM-MW-5 | EPA 9320 | 610549 | | |
| 92682401005 | HAM-MW-6 | EPA 9320 | 610549 | | |
| 92682401006 | HAM-MW-7 | EPA 9320 | 610549 | | |
| 92682401007 | HAM-MW-19 | EPA 9320 | 610549 | | |
| 92682401008 | HAM-MW-20 | EPA 9320 | 610549 | | |
| 92682401009 | HAM-MW-25D | EPA 9320 | 610549 | | |
| 92682401010 | HAM-MW-29 | EPA 9320 | 610549 | | |
| 92682401011 | HAM-HGWC-7 | EPA 9320 | 611586 | | |
| 92682401012 | HAM-HGWC-8 | EPA 9320 | 611586 | | |
| 92682401013 | HAM-HGWC-13 | EPA 9320 | 611586 | | |
| 92682401014 | HAM-MW-24D | EPA 9320 | 611586 | | |
| 92682401015 | HAM-MW-27D | EPA 9320 | 611586 | | |
| 92682401016 | HAM-AP1-EB-01 | EPA 9320 | 611586 | | |
| 92682401017 | HAM-AP1-FB-01 | EPA 9320 | 611586 | | |
| 92682401018 | HAM-HGWC-9 | EPA 9320 | 611587 | | |
| 92682401019 | HAM-MW-26D | EPA 9320 | 611587 | | |
| 92682401020 | HAM-MW-28D | EPA 9320 | 611587 | | |
| 92682401021 | HAM-AP1-FD-01 | EPA 9320 | 611587 | | |
| 92682401001 | HAM-HGWC-10 | Total Radium Calculation | 613658 | | |
| 92682401002 | HAM-HGWC-11 | Total Radium Calculation | 613658 | | |
| 92682401003 | HAM-HGWC-12 | Total Radium Calculation | 613658 | | |
| 92682401004 | HAM-MW-5 | Total Radium Calculation | 613658 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 RAD

Pace Project No.: 92682401

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|--------------------------|----------|-------------------|------------------|
| 92682401005 | HAM-MW-6 | Total Radium Calculation | 613658 | | |
| 92682401006 | HAM-MW-7 | Total Radium Calculation | 613658 | | |
| 92682401007 | HAM-MW-19 | Total Radium Calculation | 613658 | | |
| 92682401008 | HAM-MW-20 | Total Radium Calculation | 614459 | | |
| 92682401009 | HAM-MW-25D | Total Radium Calculation | 614459 | | |
| 92682401010 | HAM-MW-29 | Total Radium Calculation | 614459 | | |
| 92682401011 | HAM-HGWC-7 | Total Radium Calculation | 615223 | | |
| 92682401012 | HAM-HGWC-8 | Total Radium Calculation | 615223 | | |
| 92682401013 | HAM-HGWC-13 | Total Radium Calculation | 615223 | | |
| 92682401014 | HAM-MW-24D | Total Radium Calculation | 615223 | | |
| 92682401015 | HAM-MW-27D | Total Radium Calculation | 615223 | | |
| 92682401016 | HAM-AP1-EB-01 | Total Radium Calculation | 615223 | | |
| 92682401017 | HAM-AP1-FB-01 | Total Radium Calculation | 615223 | | |
| 92682401018 | HAM-HGWC-9 | Total Radium Calculation | 615223 | | |
| 92682401019 | HAM-MW-26D | Total Radium Calculation | 615223 | | |
| 92682401020 | HAM-MW-28D | Total Radium Calculation | 615223 | | |
| 92682401021 | HAM-AP1-FD-01 | Total Radium Calculation | 615223 | | |

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

B.A. Power

Project #:

UOH 92682401

Courier: Commercial Fed Ex UPS USPS Client Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 3.1 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.1

JSDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | | Comments/Discrepancy: |
|---|--|--|-----------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 3. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | | 4. |
| Sufficient Volume? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | | 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 7. |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | 8. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 9. |
| -Includes Date/Time/ID/Analysis Matrix: | <u>W</u> | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | 11. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | |

COMMENTS/SAMPLE DISCREPANCY _____ Field Data Required? Yes No

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO# : 92682401

RM: BV Due Date: 09/01/23
CLIENT: 92 GP-HAM

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3M-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WG9U-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

BPIN
2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GC Power

Project #:

WO# 92682401

Printed By: Due Date: 09/01/23
CLIENT: 92 GP-HAM

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals intact? Yes No

Date/Initials Person Examining Contents: *8-14-23 JCI*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID:

214

Type of Ice:

Wet Blue None

Cooler Temp:

3.9

Correction Factor:

Add/Subtract (°C)

0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

3.9

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | Comments/Discrepancy: |
|--|--|
| Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: <i>WG</i> | <i>HAM-AP-FD-01 taken @ 08/14/23 @ 000 not listed on COC</i> |
| Headspace in VOA Vials (>5.6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____

Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO# : 92682401
 PH BY: Due Date: 09/01/23
 CLIENT: 92- GP-HAM

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic Zn Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFL-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG9A-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2SO3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | V5GU-20 mL. Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|-----------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|---------------------------------------|--|--|--|
| 1 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: **1** of **1**

| | | | |
|--|--|---|--|
| Section A Required Client Information: Company: GA Power Address: Atlanta, GA | | Section B Required Project Information: Report To: SCS Contacts Copy To: Geosyntec Contacts | |
| Email To: SCS Contacts | | Purchase Order No.: | |
| Phone: Four | | Project Name: Hartmond AP-1 | |
| Requested Date Data/TAT: 10 Day | | Project Number: | |
| Section C Invoice Information: Attention: Southern Co. Company Name: | | Address: Site Code: Site Project: Project Manager: Asset Profile #: 10839 | |
| REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER <input type="checkbox"/> CCR | | Site Location STATE: GA | |

| ITEM # | Section D Requested Client Information | Valid Matrix Codes MATRIX Drinking Water Water/Water Waste Water Surface Water Soil/Sediment Sludge Air Other Tissue | CODE DW WW SW SL AQ OT TS | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | Analysis Test | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No./ Lab ID. |
|--------|---|--|--|---------------------------------------|-----------------------------|-----------|------|---------------------------|-----------------|---------------|---------------|-----------------------------------|-------------------------|---------------------------|
| | | | | | | COMPOSITE | DATE | | | | | | | |
| 1 | HAM-HGWC-7 | | | WG G | G | 8/12/2023 | 1435 | 22 | 7 | 3 | 3 | 1 | | 011 |
| 2 | HAM-HGWC-8 | | | WG G | G | 8/12/2023 | 0832 | 20 | 7 | 3 | 3 | 1 | | 012 |
| 3 | HAM-HGWC-13 | | | WG G | G | 8/12/2023 | 1305 | 22 | 7 | 3 | 3 | 1 | | 013 |
| 4 | HAM-MW-24D | | | WG G | G | 8/12/2023 | 1015 | 20 | 7 | 3 | 3 | 1 | | 014 |
| 5 | HAM-MW-27D | | | WG G | G | 8/12/2023 | 1420 | 22 | 7 | 3 | 3 | 1 | | 015 |
| 6 | HAM-AP1-EB-01 | | | WG G | G | 8/12/2023 | 1335 | 21 | 7 | 3 | 3 | 1 | | 016 |
| 7 | HAM-AP1-FB-01 | | | WG G | G | 8/12/2023 | 1330 | 21 | 7 | 3 | 3 | 1 | | 017 |
| 8 | | | | | | | | | | | | | | TK 8/12/2023 |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|---------------------------------|--|--|--|-------------|--|------|--|---------------------------|--|------------------------|--|------------|--|-----------------------|--|
| ADDITIONAL COMMENTS | | REIMBURSED BY / AFFILIATION | | DATE | | TIME | | ACCEPTED BY / AFFILIATION | | DATE | | TIME | | SAMPLE CONDITIONS | |
| Task Code: HAM-COR-ASSMT-2023S2 | | Thomas Kessler / Geosyntec | | 08/14/2023 | | 1115 | | Ryan W. Williams / Pac | | 8/14/2023 | | 1116 | | | |
| | | Ryan Williams / Pac | | 8/14/2023 | | 1332 | | TCC / Pace | | 8/14/2023 | | 1331 | | | |
| SAMPLER NAME AND SIGNATURE | | PRINT Name of SAMPLER: | | DATE SIGNED | | TIME | | SIGNATURE OF SAMPLER: | | DATE SIGNED (MM/DD/YY) | | Temp in °C | | Received on Ice (Y/N) | |
| | | Thomas Kessler, Analytical Services of Geosyntec Consultants, Inc. | | 08/12/23 | | | | [Signature] | | 08/12/23 | | | | | |
| | | Ryan Williams, Analytical Services of Geosyntec Consultants, Inc. | | 08/14/23 | | | | [Signature] | | 08/14/23 | | | | | |

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to less charges of 1.5% per month for any balances not paid within 30 days.

F-ALL-CO-020 (rev. 07-15-Feb-2007)



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO# 92682401

PH: BV Div Date: 09/01/23
CLIENT: 92 GP-HAM

Courier: Fed Ex UPS USPS Client Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 8-14-23 JL

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID:

214

Type of Ice:

Wet

Blue

None

Cooler Temp:

3.9

Correction Factor:

Add/Subtract (°C)

0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

3.9

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | Comments/Discrepancy: |
|--|-----------------------|
| Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: <u>W6</u> | |
| Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92682401

PHI: BV

Due Date: 09/01/23

CLIENT: 92 - GP-HAM

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic Zn Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG9A-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP9R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG9U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|
| 1 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: GA Power Address: Atlanta, GA

Section B Required Project Information: Report To: SCS Contacts Copy To: Geosyntec Contacts

Section C Invoicing Information: Attention: Southern Co. Company Name: Bortle Vang

Requested Client Information: Email To: SCS Contacts Phone: Requested Due Date/TAT: 10 Day

Project Name: Hammond AP-1 Project Number: 10839

Site Location: State: GA

REGULATORY AGENCY: NPDES GROUND WATER DRINKING WATER UST RCRA OTHER

| ITEM # | Section D Required Client Information | Valid Matrix Codes MATRIX CODE | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | Analysis Test | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | SAMPLE CONDITIONS |
|--------|---------------------------------------|--------------------------------|---------------------------------------|-----------------------------|-----------|------|---------------------------|-----------------|---------------|---------------|-----------------------------------|-------------------------|-------------------|
| | | | | | DATE | TIME | | | | | | | |
| 1 | HAM-HQWC-8 | WATER | G | G | 8/11/2023 | 1703 | 22 | 7 | 3 | 3 | 1 | 1 | 018 |
| 2 | HAM-MW-28D | WATER | G | G | 8/11/2023 | 1854 | 21 | 7 | 3 | 3 | 1 | 1 | 019 |
| 3 | HAM-MW-28D | WATER | G | G | 8/11/2023 | 1914 | 22 | 7 | 3 | 3 | 1 | 1 | 020 |
| 4 | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |

ADDITIONAL COMMENTS: Relinquished by Affiliation

Relinquished By / Affiliation: Thomas Vessic / Geosyntec DATE: 8/11/2023 TIME: 1115

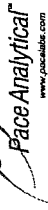
Accepted By / Affiliation: Ryan Williams / Pace DATE: 8/14/2023 TIME: 1332

SAMPLER NAME AND SIGNATURE: Thomas Vessic / Geosyntec DATE SIGNED: 8/11/23

SIGNATURE OF SAMPLER: Ryan Williams / Pace DATE SIGNED: 8/14/23

Temp in °C: Received on (Y/N): Custody Sealed Cooler (Y/N): Samples intact (Y/N):

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228
Analyst: JJS1
Date: 8/26/2023
Worklist: 74945
Matrix: WT

| | |
|--------------------------------|--|
| Method Blank Assessment | MB Sample ID: 2971498 |
| | MB concentration: 0.453 |
| | M/B 2 Sigma CSU: 0.248 |
| | MB MDC: 0.409 |
| | MB Numerical Performance Indicator: 3.58 |
| | MB Status vs Numerical Indicator: Fail* |
| | MB Status vs. MDC: See Comment* |

| Laboratory Control Sample Assessment | LCS (Y or N)? | |
|---|---------------|-----------|
| | LCS74945 | LCS74945 |
| Count Date: | 8/31/2023 | 8/31/2023 |
| Spike I.D.: | 23-043 | 23-043 |
| Decay Corrected Spike Concentration (pCi/mL): | 40.012 | 40.012 |
| Volume Used (mL): | 0.10 | 0.10 |
| Aliquot Volume (L, g, F): | 0.818 | 0.818 |
| Target Conc. (pCi/L, g, F): | 4.890 | 4.890 |
| Uncertainty (Calculated): | 0.240 | 0.240 |
| Result (pCi/L, g, F): | 3.106 | 4.025 |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.732 | 0.889 |
| Numerical Performance Indicator: | -4.54 | -1.84 |
| Percent Recovery: | 63.51% | 82.32% |
| Status vs Numerical Indicator: | N/A | N/A |
| Upper % Recovery Limits: | 135% | 135% |
| Lower % Recovery Limits: | 60% | 60% |

| Duplicate Sample Assessment | Matrix Spike/Matrix Spike Duplicate Sample Assessment |
|---|---|
| Sample I.D.: | Sample I.D.: |
| Duplicate Sample I.D.: | Sample MS I.D.: |
| Sample Result (pCi/L, g, F): | Sample MSD I.D.: |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | Sample Matrix Spike Result: |
| Sample Duplicate Result (pCi/L, g, F): | Sample Matrix Spike Duplicate Result: |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | Sample Matrix Spike Duplicate Duplicate Result: |
| Are sample and/or duplicate results below RL? | Duplicate Numerical Performance Indicator: |
| Duplicate Numerical Performance Indicator: | Duplicate Numerical Performance Indicator: |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | (Based on the Percent Recoveries) MS/MSD Duplicate RPD: |
| Duplicate Status vs Numerical Indicator: | MS/MSD Duplicate Status vs Numerical Indicator: |
| Duplicate Status vs RPD: | MS/MSD Duplicate Status vs RPD: |
| % RPD Limit: | % RPD Limit: |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

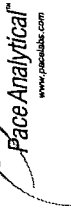
Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

| Sample Matrix Spike Control Assessment | MS/MSD 1 | MS/MSD 2 |
|--|----------|----------|
| Sample Collection Date: | | |
| Sample I.D.: | | |
| Sample MS I.D.: | | |
| Sample MSD I.D.: | | |
| Spike I.D.: | | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | | |
| Spike Volume Used in MS (mL): | | |
| Spike Volume Used in MSD (mL): | | |
| MS Aliquot (L, g, F): | | |
| MS Target Conc. (pCi/L, g, F): | | |
| MSD Aliquot (L, g, F): | | |
| MSD Target Conc. (pCi/L, g, F): | | |
| MS Spike Uncertainty (calculated): | | |
| MSD Spike Uncertainty (calculated): | | |
| Sample Result: | | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | | |
| Sample Matrix Spike Result: | | |
| Sample Matrix Spike Duplicate Result: | | |
| Sample Matrix Spike Duplicate Duplicate Result: | | |
| MS Numerical Performance Indicator: | | |
| MSD Numerical Performance Indicator: | | |
| MS Percent Recovery: | | |
| MSD Percent Recovery: | | |
| MS Status vs Numerical Indicator: | | |
| MSD Status vs Numerical Indicator: | | |
| MS Status vs Recovery: | | |
| MSD Status vs Recovery: | | |
| MS/MSD Upper % Recovery Limits: | | |
| MS/MSD Lower % Recovery Limits: | | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment |
|---|
| Sample I.D.: |
| Sample MS I.D.: |
| Sample MSD I.D.: |
| Sample Matrix Spike Result: |
| Sample Matrix Spike Duplicate Result: |
| Sample Matrix Spike Duplicate Duplicate Result: |
| Duplicate Numerical Performance Indicator: |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: |
| MS/MSD Duplicate Status vs Numerical Indicator: |
| MS/MSD Duplicate Status vs RPD: |
| % RPD Limit: |

7/15/23

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228
Analyst: ZPC
Date: 8/31/2023
Worklist: 75029
Matrix: WT

Method Blank Assessment

MB Sample ID: 2976847
MB concentration: 0.830
MB 2 Sigma CSU: 0.342
MB MDC: 0.491
MB Numerical Performance Indicator: 4.76
MB Status vs Numerical Indicator: Fail*
MB Status vs. MDC: See Comment*

OK

| Laboratory Control Sample Assessment | LCS/D (Y or N)? | |
|---|-----------------|----------|
| | LCS75029 | LCS75029 |
| Count Date: | 9/6/2023 | 9/6/2023 |
| Spike I.D.: | 23-043 | 23-043 |
| Decay Corrected Spike Concentration (pCi/mL): | 39.931 | 39.931 |
| Volume Used (mL): | 0.10 | 0.10 |
| Aliquot Volume (L, g, F): | 0.817 | 0.817 |
| Target Conc. (pCi/L, g, F): | 4.889 | 4.888 |
| Uncertainty (Calculated): | 0.240 | 0.240 |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 3.930 | 3.696 |
| Numerical Performance Indicator: | 0.909 | 0.843 |
| Percent Recovery: | -2.00 | -2.67 |
| Status vs Numerical Indicator: | 80.39% | 75.60% |
| Upper % Recovery Limits: | Pass | N/A |
| Lower % Recovery Limits: | 135% | 135% |
| | 60% | 60% |

Duplicate Sample Assessment

Sample I.D.: LCS75029
Duplicate Sample I.D.: LCS75029
Sample Result (pCi/L, g, F): 3.930
Sample Duplicate Result (pCi/L, g, F): 0.909
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): 3.696
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): 0.843
Are sample and/or duplicate results below RL? NO
Duplicate Numerical Performance Indicator: 0.370
Duplicate Numerical Performance Indicator: 6.14%
Duplicate Status vs Numerical Indicator: Pass
Duplicate Status vs RPD: Pass
% RPD Limit: 36%

| Sample Matrix Spike Control Assessment | MS/MSD 1 | MS/MSD 2 |
|--|----------|----------|
| <p>Sample Collection Date:</p> <p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Spike I.D.:</p> <p>MS/MSD Decay Corrected Spike Concentration (pCi/mL):</p> <p>Spike Volume Used in MS (mL):</p> <p>Spike Volume Used in MSD (mL):</p> <p>MS Aliquot (L, g, F):</p> <p>MS Target Conc. (pCi/L, g, F):</p> <p>MSD Aliquot (L, g, F):</p> <p>MSD Target Conc. (pCi/L, g, F):</p> <p>MS Spike Uncertainty (calculated):</p> <p>MSD Spike Uncertainty (calculated):</p> <p>Sample Result:</p> <p>Sample Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>MS Numerical Performance Indicator:</p> <p>MSD Numerical Performance Indicator:</p> <p>MS Percent Recovery:</p> <p>MSD Percent Recovery:</p> <p>MS Status vs Numerical Indicator:</p> <p>MSD Status vs Numerical Indicator:</p> <p>MS Status vs Recovery:</p> <p>MSD Status vs Recovery:</p> <p>MS/MSD Upper % Recovery Limits:</p> <p>MS/MSD Lower % Recovery Limits:</p> | | |

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:

Sample MS I.D.:

Sample MSD I.D.:

Sample Matrix Spike Result:

Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):

Sample Matrix Spike Duplicate Result:

Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):

Matrix Spike Duplicate Numerical Performance Indicator:

Duplicate Numerical Performance Indicator:

(Based on the Percent Recoveries) MS/MSD Duplicate RPD:

MS/MSD Duplicate Status vs Numerical Indicator:

MS/MSD Duplicate Status vs RPD:

% RPD Limit:

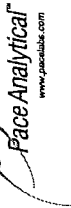
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

[Signature]

VAR
9/8/23

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228
Analyst: VAL
Date: 8/31/2023
Worklist: 75030
Matrix: WT

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2976848 |
| MB concentration: | 0.386 |
| MB 2 Sigma CSU: | 0.277 |
| MB MDC: | 0.528 |
| MB Numerical Performance Indicator: | 2.74 |
| MB Status vs Numerical Indicator: | Warning |
| MB Status vs MDC: | Pass |

| Laboratory Control Sample Assessment | LCS/D (Y or N)? | |
|---|-----------------|----------|
| | LCS75030 | Y |
| Count Date: | 9/7/2023 | LCS75030 |
| Spike I.D.: | 23-043 | 9/7/2023 |
| Decay Corrected Spike Concentration (pCi/mL): | 39.920 | 39.920 |
| Volume Used (mL): | 0.10 | 0.10 |
| Aliquot Volume (L, g, F): | 0.819 | 0.819 |
| Target Conc. (pCi/L, g, F): | 4.873 | 4.873 |
| Uncertainty (Calculated): | 0.239 | 0.239 |
| Result (pCi/L, g, F): | 4.866 | 4.674 |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 1.063 | 0.979 |
| Numerical Performance Indicator: | -0.39 | -0.39 |
| Percent Recovery: | 99.59% | 95.92% |
| Status vs Numerical Indicator: | N/A | Pass |
| Upper % Recovery Limits: | 135% | 135% |
| Lower % Recovery Limits: | 60% | 60% |

| Duplicate Sample Assessment | Enter Duplicate sample IDs if other than LCS/LCSD in the space below. |
|---|---|
| Sample I.D.: | LCS75030 |
| Duplicate Sample I.D.: | LCS75030 |
| Sample Result (pCi/L, g, F): | 4.866 |
| Sample Duplicate Result (pCi/L, g, F): | 1.063 |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 4.674 |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 0.979 |
| Are sample and/or duplicate results below RL? | NO |
| Duplicate Numerical Performance Indicator: | 0.260 |
| Duplicate (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | 3.75% |
| Duplicate Status vs Numerical Indicator: | Pass |
| Duplicate Status vs RPD: | Pass |
| % RPD Limit: | 36% |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL
9/8/23

| Sample Matrix Spike Control Assessment | MS/MSD 1 | MS/MSD 2 |
|--|----------|----------|
| <p>Sample Collection Date:</p> <p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Spike I.D.:</p> <p>MS/MSD Decay Corrected Spike Concentration (pCi/mL):</p> <p>Spike Volume Used in MS (mL):</p> <p>Spike Volume Used in MSD (mL):</p> <p>MS Aliquot (L, g, F):</p> <p>MS Target Conc. (pCi/L, g, F):</p> <p>MSD Aliquot (L, g, F):</p> <p>MSD Target Conc. (pCi/L, g, F):</p> <p>MS Spike Uncertainty (calculated):</p> <p>MSD Spike Uncertainty (calculated):</p> <p>Sample Result:</p> <p>Sample Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>MS Numerical Performance Indicator:</p> <p>MSD Numerical Performance Indicator:</p> <p>MS Percent Recovery:</p> <p>MSD Percent Recovery:</p> <p>MS Status vs Numerical Indicator:</p> <p>MSD Status vs Numerical Indicator:</p> <p>MS Status vs Recovery:</p> <p>MSD Status vs Recovery:</p> <p>MS/MSD Upper % Recovery Limits:</p> <p>MS/MSD Lower % Recovery Limits:</p> | | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment |
|---|
| <p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Matrix Spike Duplicate Numerical Performance Indicator:</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> |



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 9/2/2023
Worklist: 74954
Matrix: WT

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2971911 |
| MB concentration: | 0.078 |
| MB 2 Sigma CSU: | 0.129 |
| MB MDC: | 0.288 |
| MB Numerical Performance Indicator: | 1.19 |
| MB Status vs Numerical Indicator: | Pass |
| MB Status vs MDC: | N/A |

| Laboratory Control Sample Assessment | | |
|---|----------------|-----------|
| Count Date: | LCS# (Y or N)? | Y |
| 9/6/2023 | LCS74954 | LCS#74954 |
| Decay Corrected Spike Concentration (pCi/mL): | 19.033 | 19.033 |
| Volume Used (mL): | 24.014 | 24.014 |
| Alliquot Volume (L, g, F): | 0.10 | 0.503 |
| Target Conc. (pCi/L, g, F): | 4.775 | 4.753 |
| Uncertainty (Calculated): | 0.057 | 0.057 |
| Result (pCi/L, g, F): | 5.365 | 5.002 |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 1.001 | 0.935 |
| Numerical Performance Indicator: | 1.15 | 0.52 |
| Percent Recovery: | 112.37% | 105.23% |
| 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.: | LCS#74954 | 92681881004 |
| Duplicate Sample I.D. | LCS#74954 | 92681881004DUP |
| Sample Result (pCi/L, g, F): | 5.365 | 0.377 |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 1.001 | 0.213 |
| Sample Duplicate Result (pCi/L, g, F): | 5.002 | 0.203 |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 0.935 | 0.178 |
| Are sample and/or duplicate results below RL? | NO | See Below # |
| Duplicate Numerical Performance Indicator: | 0.520 | 1.231 |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | 6.56% | 60.17% |
| Duplicate Status vs Numerical Indicator: | Pass | Pass |
| Duplicate Status vs RPD: | N/A | N/A |
| % RPD Limit: | 25% | 25% |

| Sample Matrix Spike Control Assessment | | |
|--|----------|----------|
| Sample Collection Date: | MS/MSD 1 | MS/MSD 2 |
| Sample I.D. | | |
| Sample MS I.D. | | |
| Sample MSD I.D. | | |
| Spike I.D.: | | |
| MSMSD Decay Corrected Spike Concentration (pCi/mL): | | |
| Spike Volume Used in MS (mL): | | |
| Spike Volume Used in MSD (mL): | | |
| MS Alliquot (L, g, F): | | |
| MS Target Conc. (pCi/L, g, F): | | |
| MSD Alliquot (L, g, F): | | |
| MSD Target Conc. (pCi/L, g, F): | | |
| MS Spike Uncertainty (calculated): | | |
| MSD Spike Uncertainty (calculated): | | |
| MSD Spike Uncertainty (calculated): | | |
| Sample Result: | | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | | |
| Sample Matrix Spike Result: | | |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | | |
| Sample Matrix Spike Duplicate Result: | | |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | | |
| MS Numerical Performance Indicator: | | |
| MSD Numerical Performance Indicator: | | |
| MS Percent Recovery: | | |
| MSD Percent Recovery: | | |
| MS Status vs Numerical Indicator: | | |
| MSD Status vs Numerical Indicator: | | |
| MS Status vs Recovery: | | |
| MSD Status vs Recovery: | | |
| MS/MSD Upper % Recovery Limits: | | |
| MS/MSD Lower % Recovery Limits: | | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | | |
|--|----------------|-----------------|
| Sample I.D.: | Sample MS I.D. | Sample MSD I.D. |
| Sample I.D. | | |
| Sample MS I.D. | | |
| Sample MSD I.D. | | |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | | |
| Sample Matrix Spike Duplicate Result: | | |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | | |
| Duplicate Numerical Performance Indicator: | | |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | | |
| MS/MSD Duplicate Status vs Numerical Indicator: | | |
| MS/MSD Duplicate Status vs RPD: | | |
| % RPD Limit: | | |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

MM 9/1/23

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 9/12/2023
Worklist: 75103
Matrix: WT



| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2982186 |
| MB concentration: | 0.199 |
| MB 2 Sigma CSU: | 0.286 |
| MB MDC: | 0.622 |
| MB Numerical Performance Indicator: | 1.36 |
| MB Status vs Numerical Indicator: | Pass |
| MB Status vs. MDC: | N/A |

| Laboratory Control Sample Assessment | LCSD (Y or N)? | |
|---|----------------|-----------|
| | LCSD75103 | LCSD75103 |
| Count Date: | 9/13/2023 | 9/13/2023 |
| Spike I.D.: | 23-014 | 23-014 |
| Decay Corrected Spike Concentration (pCi/mL): | 25.031 | 25.031 |
| Volume Used (mL): | 0.10 | 0.10 |
| Aliquot Volume (L, g, F): | 0.504 | 0.509 |
| Target Conc. (pCi/L, g, F): | 4.965 | 4.920 |
| Uncertainty (Calculated): | 0.233 | 0.231 |
| Result (pCi/L, g, F): | 5.960 | 4.641 |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 1.214 | 1.014 |
| Numerical Performance Indicator: | 1.58 | -0.53 |
| Percent Recovery: | 120.03% | 94.32% |
| 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 | LCSD (Y or N)? | |
|---|----------------|----------------|
| | LCSD75103 | LCSD75103 |
| Sample I.D.: | 92682115021 | 92682115021DUP |
| Duplicate Sample I.D.: | 0.432 | 0.432 |
| Sample Result (pCi/L, g, F): | 1.214 | 1.214 |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 4.641 | 0.258 |
| Sample Duplicate Result (pCi/L, g, F): | 1.014 | 0.271 |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | NO | See Below ## |
| Are sample and/or duplicate results below RL? | 1.634 | 0.844 |
| Duplicate Numerical Performance Indicator: | 23.99% | 50.51% |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | Pass | Pass |
| Duplicate Status vs Numerical Indicator: | N/A | N/A |
| Duplicate Status vs RPD: | N/A | N/A |
| % RPD Limit: | 25% | 25% |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

[Handwritten signature]

| Sample Matrix: Spike Control Assessment | MS/MSD 1 | MS/MSD 2 |
|---|----------|----------|
| Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.: | | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated): | | |
| Sample Result: 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits: | | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment |
|--|
| Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit: |

LAM 9/13/23



August 22, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Pool Hammond Pooled Upgradient
Pace Project No.: 92681885

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on August 09, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Pool Hammond Pooled Upgradient
Pace Project No.: 92681885

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|--------------|--------|----------------|----------------|
| 92681885001 | HAM-HGWA-1 | Water | 08/08/23 10:47 | 08/09/23 11:40 |
| 92681885002 | HAM-HGWA-2 | Water | 08/08/23 16:08 | 08/09/23 11:40 |
| 92681885003 | HAM-HGWA-3 | Water | 08/08/23 14:45 | 08/09/23 11:40 |
| 92681885004 | HAM-HGWA-43D | Water | 08/08/23 11:05 | 08/09/23 11:40 |
| 92681885005 | HAM-HGWA-44D | Water | 08/08/23 10:59 | 08/09/23 11:40 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|--------------|------------------------|----------|-------------------|
| 92681885001 | HAM-HGWA-1 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| 92681885002 | HAM-HGWA-2 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| 92681885003 | HAM-HGWA-3 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| 92681885004 | HAM-HGWA-43D | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| 92681885005 | HAM-HGWA-44D | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |

PASI-A = Pace Analytical Services - Asheville

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|----------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92681885001 | HAM-HGWA-1 | | | | | |
| EPA 6010D | Iron | 0.35 | mg/L | 0.040 | 08/12/23 06:33 | |
| EPA 6010D | Manganese | 0.29 | mg/L | 0.040 | 08/12/23 06:33 | |
| EPA 6010D | Potassium | 0.79 | mg/L | 0.50 | 08/12/23 06:33 | |
| EPA 6010D | Sodium | 37.0 | mg/L | 1.0 | 08/12/23 06:33 | |
| EPA 6010D | Calcium | 118 | mg/L | 1.0 | 08/12/23 06:33 | |
| EPA 6010D | Magnesium | 4.7 | mg/L | 0.050 | 08/12/23 06:33 | |
| EPA 6020B | Barium | 0.039 | mg/L | 0.0050 | 08/18/23 18:29 | |
| EPA 6020B | Boron | 0.023J | mg/L | 0.040 | 08/18/23 18:29 | |
| EPA 6020B | Cobalt | 0.00080J | mg/L | 0.0050 | 08/18/23 18:29 | |
| SM 2540C-2015 | Total Dissolved Solids | 457 | mg/L | 25.0 | 08/11/23 14:00 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 331 | mg/L | 5.0 | 08/16/23 11:12 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 331 | mg/L | 5.0 | 08/16/23 11:12 | |
| SM 4500-S2D-2011 | Sulfide | 0.043J | mg/L | 0.10 | 08/15/23 06:15 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 26.0 | mg/L | 1.0 | 08/12/23 19:54 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.088J | mg/L | 0.10 | 08/12/23 19:54 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 67.7 | mg/L | 1.0 | 08/12/23 19:54 | |
| 92681885002 | HAM-HGWA-2 | | | | | |
| EPA 6010D | Iron | 0.29 | mg/L | 0.040 | 08/12/23 06:28 | |
| EPA 6010D | Manganese | 0.90 | mg/L | 0.040 | 08/12/23 06:28 | |
| EPA 6010D | Potassium | 1.1 | mg/L | 0.50 | 08/12/23 06:28 | |
| EPA 6010D | Sodium | 10.9 | mg/L | 1.0 | 08/12/23 06:28 | |
| EPA 6010D | Calcium | 30.7 | mg/L | 1.0 | 08/12/23 06:28 | |
| EPA 6010D | Magnesium | 4.3 | mg/L | 0.050 | 08/12/23 06:28 | |
| EPA 6020B | Barium | 0.068 | mg/L | 0.0050 | 08/18/23 18:33 | |
| EPA 6020B | Beryllium | 0.00022J | mg/L | 0.00050 | 08/18/23 18:33 | |
| EPA 6020B | Boron | 0.060 | mg/L | 0.040 | 08/18/23 18:33 | |
| EPA 6020B | Cadmium | 0.00026J | mg/L | 0.00050 | 08/18/23 18:33 | |
| EPA 6020B | Cobalt | 0.029 | mg/L | 0.0050 | 08/18/23 18:33 | |
| EPA 6020B | Lithium | 0.0017J | mg/L | 0.030 | 08/18/23 18:33 | |
| EPA 6020B | Selenium | 0.0019J | mg/L | 0.0050 | 08/18/23 18:33 | |
| SM 2540C-2015 | Total Dissolved Solids | 189 | mg/L | 25.0 | 08/14/23 13:15 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 20.2 | mg/L | 5.0 | 08/15/23 21:59 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 20.2 | mg/L | 5.0 | 08/15/23 21:59 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 6.6 | mg/L | 1.0 | 08/12/23 20:08 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.070J | mg/L | 0.10 | 08/12/23 20:08 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 89.9 | mg/L | 1.0 | 08/12/23 20:08 | |
| 92681885003 | HAM-HGWA-3 | | | | | |
| EPA 6010D | Iron | 0.87 | mg/L | 0.040 | 08/12/23 06:38 | |
| EPA 6010D | Manganese | 0.24 | mg/L | 0.040 | 08/12/23 06:38 | |
| EPA 6010D | Potassium | 0.45J | mg/L | 0.50 | 08/12/23 06:38 | |
| EPA 6010D | Sodium | 5.6 | mg/L | 1.0 | 08/12/23 06:38 | |
| EPA 6010D | Calcium | 78.3 | mg/L | 1.0 | 08/12/23 06:38 | |
| EPA 6010D | Magnesium | 5.2 | mg/L | 0.050 | 08/12/23 06:38 | |
| EPA 6020B | Barium | 0.12 | mg/L | 0.0050 | 08/18/23 18:37 | |
| EPA 6020B | Boron | 0.011J | mg/L | 0.040 | 08/18/23 18:37 | |
| EPA 6020B | Lithium | 0.0031J | mg/L | 0.030 | 08/18/23 18:37 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|---------------------|-------|--------------|----------------|------------|
| 92681885003 | | HAM-HGWA-3 | | | | |
| SM 2540C-2015 | Total Dissolved Solids | 285 | mg/L | 25.0 | 08/14/23 13:16 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 212 | mg/L | 5.0 | 08/15/23 22:06 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 212 | mg/L | 5.0 | 08/15/23 22:06 | M1 |
| EPA 300.0 Rev 2.1 1993 | Chloride | 5.3 | mg/L | 1.0 | 08/12/23 20:23 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.055J | mg/L | 0.10 | 08/12/23 20:23 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 35.0 | mg/L | 1.0 | 08/12/23 20:23 | |
| 92681885004 | | HAM-HGWA-43D | | | | |
| EPA 6010D | Iron | 0.29 | mg/L | 0.040 | 08/12/23 06:43 | |
| EPA 6010D | Manganese | 0.017J | mg/L | 0.040 | 08/12/23 06:43 | |
| EPA 6010D | Potassium | 0.86 | mg/L | 0.50 | 08/12/23 06:43 | |
| EPA 6010D | Sodium | 22.2 | mg/L | 1.0 | 08/12/23 06:43 | |
| EPA 6010D | Calcium | 52.8 | mg/L | 1.0 | 08/12/23 06:43 | |
| EPA 6010D | Magnesium | 17.7 | mg/L | 0.050 | 08/12/23 06:43 | |
| EPA 6020B | Barium | 0.30 | mg/L | 0.0050 | 08/18/23 18:48 | |
| EPA 6020B | Boron | 0.038J | mg/L | 0.040 | 08/18/23 18:48 | |
| EPA 6020B | Lithium | 0.0021J | mg/L | 0.030 | 08/18/23 18:48 | |
| EPA 6020B | Molybdenum | 0.0019J | mg/L | 0.010 | 08/18/23 18:48 | |
| SM 2540C-2015 | Total Dissolved Solids | 274 | mg/L | 25.0 | 08/14/23 13:16 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 251 | mg/L | 5.0 | 08/16/23 11:21 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 251 | mg/L | 5.0 | 08/16/23 11:21 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 3.5 | mg/L | 1.0 | 08/12/23 21:08 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.18 | mg/L | 0.10 | 08/12/23 21:08 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 25.6 | mg/L | 1.0 | 08/12/23 21:08 | |
| 92681885005 | | HAM-HGWA-44D | | | | |
| EPA 6010D | Iron | 0.065 | mg/L | 0.040 | 08/12/23 06:13 | |
| EPA 6010D | Potassium | 2.6 | mg/L | 0.50 | 08/12/23 06:13 | |
| EPA 6010D | Sodium | 135 | mg/L | 1.0 | 08/12/23 06:13 | |
| EPA 6010D | Calcium | 8.1 | mg/L | 1.0 | 08/12/23 06:13 | |
| EPA 6010D | Magnesium | 3.9 | mg/L | 0.050 | 08/12/23 06:13 | |
| EPA 6020B | Barium | 0.12 | mg/L | 0.0050 | 08/18/23 18:52 | |
| EPA 6020B | Boron | 0.55 | mg/L | 0.20 | 08/22/23 13:32 | |
| EPA 6020B | Lithium | 0.092 | mg/L | 0.030 | 08/18/23 18:52 | |
| EPA 6020B | Molybdenum | 0.0013J | mg/L | 0.010 | 08/18/23 18:52 | |
| SM 2540C-2015 | Total Dissolved Solids | 361 | mg/L | 25.0 | 08/14/23 13:17 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 279 | mg/L | 5.0 | 08/15/23 15:02 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 279 | mg/L | 5.0 | 08/15/23 15:02 | |
| SM 4500-S2D-2011 | Sulfide | 0.14 | mg/L | 0.10 | 08/15/23 06:17 | M1, R1 |
| EPA 300.0 Rev 2.1 1993 | Chloride | 27.0 | mg/L | 1.0 | 08/12/23 21:23 | M1 |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 1.3 | mg/L | 0.10 | 08/12/23 21:23 | M1 |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 1.3 | mg/L | 1.0 | 08/12/23 21:23 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

| Sample: HAM-HGWA-1 | | Lab ID: 92681885001 | | Collected: 08/08/23 10:47 | | Received: 08/09/23 11:40 | | Matrix: Water | |
|--|----------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.35 | mg/L | 0.040 | 0.025 | 1 | 08/11/23 14:21 | 08/12/23 06:33 | 7439-89-6 | |
| Manganese | 0.29 | mg/L | 0.040 | 0.011 | 1 | 08/11/23 14:21 | 08/12/23 06:33 | 7439-96-5 | |
| Potassium | 0.79 | mg/L | 0.50 | 0.15 | 1 | 08/11/23 14:21 | 08/12/23 06:33 | 7440-09-7 | |
| Sodium | 37.0 | mg/L | 1.0 | 0.58 | 1 | 08/11/23 14:21 | 08/12/23 06:33 | 7440-23-5 | |
| Calcium | 118 | mg/L | 1.0 | 0.12 | 1 | 08/11/23 14:21 | 08/12/23 06:33 | 7440-70-2 | |
| Magnesium | 4.7 | mg/L | 0.050 | 0.012 | 1 | 08/11/23 14:21 | 08/12/23 06:33 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/16/23 10:27 | 08/18/23 18:29 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/16/23 10:27 | 08/18/23 18:29 | 7440-38-2 | |
| Barium | 0.039 | mg/L | 0.0050 | 0.00067 | 1 | 08/16/23 10:27 | 08/18/23 18:29 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/16/23 10:27 | 08/18/23 18:29 | 7440-41-7 | |
| Boron | 0.023J | mg/L | 0.040 | 0.0086 | 1 | 08/16/23 10:27 | 08/18/23 18:29 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/16/23 10:27 | 08/18/23 18:29 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/16/23 10:27 | 08/18/23 18:29 | 7440-47-3 | |
| Cobalt | 0.00080J | mg/L | 0.0050 | 0.00039 | 1 | 08/16/23 10:27 | 08/18/23 18:29 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/16/23 10:27 | 08/18/23 18:29 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 08/16/23 10:27 | 08/18/23 18:29 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 08/16/23 10:27 | 08/18/23 18:29 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/16/23 10:27 | 08/18/23 18:29 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/16/23 10:27 | 08/18/23 18:29 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/15/23 10:30 | 08/15/23 15:03 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 457 | mg/L | 25.0 | 25.0 | 1 | | 08/11/23 14:00 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 331 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 11:12 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 11:12 | | |
| Alkalinity, Total as CaCO3 | 331 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 11:12 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | 0.043J | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:15 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 26.0 | mg/L | 1.0 | 0.60 | 1 | | 08/12/23 19:54 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

Sample: HAM-HGWA-1 Lab ID: 92681885001 Collected: 08/08/23 10:47 Received: 08/09/23 11:40 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days
 Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|---------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.088J | mg/L | 0.10 | 0.050 | 1 | | 08/12/23 19:54 | 16984-48-8 | |
| Sulfate | 67.7 | mg/L | 1.0 | 0.50 | 1 | | 08/12/23 19:54 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

| Sample: HAM-HGWA-2 | | Lab ID: 92681885002 | | Collected: 08/08/23 16:08 | | Received: 08/09/23 11:40 | | Matrix: Water | |
|-------------------------------------|----------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 0.29 | mg/L | 0.040 | 0.025 | 1 | 08/11/23 14:21 | 08/12/23 06:28 | 7439-89-6 | |
| Manganese | 0.90 | mg/L | 0.040 | 0.011 | 1 | 08/11/23 14:21 | 08/12/23 06:28 | 7439-96-5 | |
| Potassium | 1.1 | mg/L | 0.50 | 0.15 | 1 | 08/11/23 14:21 | 08/12/23 06:28 | 7440-09-7 | |
| Sodium | 10.9 | mg/L | 1.0 | 0.58 | 1 | 08/11/23 14:21 | 08/12/23 06:28 | 7440-23-5 | |
| Calcium | 30.7 | mg/L | 1.0 | 0.12 | 1 | 08/11/23 14:21 | 08/12/23 06:28 | 7440-70-2 | |
| Magnesium | 4.3 | mg/L | 0.050 | 0.012 | 1 | 08/11/23 14:21 | 08/12/23 06:28 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/16/23 10:27 | 08/18/23 18:33 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/16/23 10:27 | 08/18/23 18:33 | 7440-38-2 | |
| Barium | 0.068 | mg/L | 0.0050 | 0.00067 | 1 | 08/16/23 10:27 | 08/18/23 18:33 | 7440-39-3 | |
| Beryllium | 0.00022J | mg/L | 0.00050 | 0.000054 | 1 | 08/16/23 10:27 | 08/18/23 18:33 | 7440-41-7 | |
| Boron | 0.060 | mg/L | 0.040 | 0.0086 | 1 | 08/16/23 10:27 | 08/18/23 18:33 | 7440-42-8 | |
| Cadmium | 0.00026J | mg/L | 0.00050 | 0.00011 | 1 | 08/16/23 10:27 | 08/18/23 18:33 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/16/23 10:27 | 08/18/23 18:33 | 7440-47-3 | |
| Cobalt | 0.029 | mg/L | 0.0050 | 0.00039 | 1 | 08/16/23 10:27 | 08/18/23 18:33 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/16/23 10:27 | 08/18/23 18:33 | 7439-92-1 | |
| Lithium | 0.0017J | mg/L | 0.030 | 0.00073 | 1 | 08/16/23 10:27 | 08/18/23 18:33 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 08/16/23 10:27 | 08/18/23 18:33 | 7439-98-7 | |
| Selenium | 0.0019J | mg/L | 0.0050 | 0.0014 | 1 | 08/16/23 10:27 | 08/18/23 18:33 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/16/23 10:27 | 08/18/23 18:33 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/15/23 10:30 | 08/15/23 15:06 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 189 | mg/L | 25.0 | 25.0 | 1 | | 08/14/23 13:15 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 20.2 | mg/L | 5.0 | 5.0 | 1 | | 08/15/23 21:59 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/15/23 21:59 | | |
| Alkalinity, Total as CaCO3 | 20.2 | mg/L | 5.0 | 5.0 | 1 | | 08/15/23 21:59 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:16 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 6.6 | mg/L | 1.0 | 0.60 | 1 | | 08/12/23 20:08 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

Sample: HAM-HGWA-2 Lab ID: 92681885002 Collected: 08/08/23 16:08 Received: 08/09/23 11:40 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|---------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.070J | mg/L | 0.10 | 0.050 | 1 | | 08/12/23 20:08 | 16984-48-8 | |
| Sulfate | 89.9 | mg/L | 1.0 | 0.50 | 1 | | 08/12/23 20:08 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

| Sample: HAM-HGWA-3 | Lab ID: 92681885003 | Collected: 08/08/23 14:45 | Received: 08/09/23 11:40 | Matrix: Water | | | | | |
|--|---------------------|---------------------------|--------------------------|---------------|----|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.87 | mg/L | 0.040 | 0.025 | 1 | 08/11/23 14:21 | 08/12/23 06:38 | 7439-89-6 | |
| Manganese | 0.24 | mg/L | 0.040 | 0.011 | 1 | 08/11/23 14:21 | 08/12/23 06:38 | 7439-96-5 | |
| Potassium | 0.45J | mg/L | 0.50 | 0.15 | 1 | 08/11/23 14:21 | 08/12/23 06:38 | 7440-09-7 | |
| Sodium | 5.6 | mg/L | 1.0 | 0.58 | 1 | 08/11/23 14:21 | 08/12/23 06:38 | 7440-23-5 | |
| Calcium | 78.3 | mg/L | 1.0 | 0.12 | 1 | 08/11/23 14:21 | 08/12/23 06:38 | 7440-70-2 | |
| Magnesium | 5.2 | mg/L | 0.050 | 0.012 | 1 | 08/11/23 14:21 | 08/12/23 06:38 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/16/23 10:27 | 08/18/23 18:37 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/16/23 10:27 | 08/18/23 18:37 | 7440-38-2 | |
| Barium | 0.12 | mg/L | 0.0050 | 0.00067 | 1 | 08/16/23 10:27 | 08/18/23 18:37 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/16/23 10:27 | 08/18/23 18:37 | 7440-41-7 | |
| Boron | 0.011J | mg/L | 0.040 | 0.0086 | 1 | 08/16/23 10:27 | 08/18/23 18:37 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/16/23 10:27 | 08/18/23 18:37 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/16/23 10:27 | 08/18/23 18:37 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/16/23 10:27 | 08/18/23 18:37 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/16/23 10:27 | 08/18/23 18:37 | 7439-92-1 | |
| Lithium | 0.0031J | mg/L | 0.030 | 0.00073 | 1 | 08/16/23 10:27 | 08/18/23 18:37 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 08/16/23 10:27 | 08/18/23 18:37 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/16/23 10:27 | 08/18/23 18:37 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/16/23 10:27 | 08/18/23 18:37 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/15/23 10:30 | 08/15/23 15:08 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 285 | mg/L | 25.0 | 25.0 | 1 | | 08/14/23 13:16 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO3) | 212 | mg/L | 5.0 | 5.0 | 1 | | 08/15/23 22:06 | | |
| Alkalinity, Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/15/23 22:06 | | |
| Alkalinity, Total as CaCO3 | 212 | mg/L | 5.0 | 5.0 | 1 | | 08/15/23 22:06 | | M1 |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:16 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 5.3 | mg/L | 1.0 | 0.60 | 1 | | 08/12/23 20:23 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

Sample: HAM-HGWA-3 Lab ID: 92681885003 Collected: 08/08/23 14:45 Received: 08/09/23 11:40 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|---------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.055J | mg/L | 0.10 | 0.050 | 1 | | 08/12/23 20:23 | 16984-48-8 | |
| Sulfate | 35.0 | mg/L | 1.0 | 0.50 | 1 | | 08/12/23 20:23 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

| Sample: HAM-HGWA-43D | | Lab ID: 92681885004 | | Collected: 08/08/23 11:05 | | Received: 08/09/23 11:40 | | Matrix: Water | |
|-------------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 0.29 | mg/L | 0.040 | 0.025 | 1 | 08/11/23 14:21 | 08/12/23 06:43 | 7439-89-6 | |
| Manganese | 0.017J | mg/L | 0.040 | 0.011 | 1 | 08/11/23 14:21 | 08/12/23 06:43 | 7439-96-5 | |
| Potassium | 0.86 | mg/L | 0.50 | 0.15 | 1 | 08/11/23 14:21 | 08/12/23 06:43 | 7440-09-7 | |
| Sodium | 22.2 | mg/L | 1.0 | 0.58 | 1 | 08/11/23 14:21 | 08/12/23 06:43 | 7440-23-5 | |
| Calcium | 52.8 | mg/L | 1.0 | 0.12 | 1 | 08/11/23 14:21 | 08/12/23 06:43 | 7440-70-2 | |
| Magnesium | 17.7 | mg/L | 0.050 | 0.012 | 1 | 08/11/23 14:21 | 08/12/23 06:43 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/16/23 10:27 | 08/18/23 18:48 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/16/23 10:27 | 08/18/23 18:48 | 7440-38-2 | |
| Barium | 0.30 | mg/L | 0.0050 | 0.00067 | 1 | 08/16/23 10:27 | 08/18/23 18:48 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/16/23 10:27 | 08/18/23 18:48 | 7440-41-7 | |
| Boron | 0.038J | mg/L | 0.040 | 0.0086 | 1 | 08/16/23 10:27 | 08/18/23 18:48 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/16/23 10:27 | 08/18/23 18:48 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/16/23 10:27 | 08/18/23 18:48 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/16/23 10:27 | 08/18/23 18:48 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/16/23 10:27 | 08/18/23 18:48 | 7439-92-1 | |
| Lithium | 0.0021J | mg/L | 0.030 | 0.00073 | 1 | 08/16/23 10:27 | 08/18/23 18:48 | 7439-93-2 | |
| Molybdenum | 0.0019J | mg/L | 0.010 | 0.00074 | 1 | 08/16/23 10:27 | 08/18/23 18:48 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/16/23 10:27 | 08/18/23 18:48 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/16/23 10:27 | 08/18/23 18:48 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/15/23 10:30 | 08/15/23 15:11 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 274 | mg/L | 25.0 | 25.0 | 1 | | 08/14/23 13:16 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 251 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 11:21 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 11:21 | | |
| Alkalinity, Total as CaCO3 | 251 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 11:21 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:16 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 3.5 | mg/L | 1.0 | 0.60 | 1 | | 08/12/23 21:08 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

Sample: HAM-HGWA-43D Lab ID: 92681885004 Collected: 08/08/23 11:05 Received: 08/09/23 11:40 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Fluoride | 0.18 | mg/L | 0.10 | 0.050 | 1 | | 08/12/23 21:08 | 16984-48-8 | |
| Sulfate | 25.6 | mg/L | 1.0 | 0.50 | 1 | | 08/12/23 21:08 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

Sample: HAM-HGWA-44D **Lab ID: 92681885005** Collected: 08/08/23 10:59 Received: 08/09/23 11:40 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|---------|----------|----|----------------|----------------|------------|-------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.065 | mg/L | 0.040 | 0.025 | 1 | 08/11/23 14:21 | 08/12/23 06:13 | 7439-89-6 | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 08/11/23 14:21 | 08/12/23 06:13 | 7439-96-5 | |
| Potassium | 2.6 | mg/L | 0.50 | 0.15 | 1 | 08/11/23 14:21 | 08/12/23 06:13 | 7440-09-7 | |
| Sodium | 135 | mg/L | 1.0 | 0.58 | 1 | 08/11/23 14:21 | 08/12/23 06:13 | 7440-23-5 | |
| Calcium | 8.1 | mg/L | 1.0 | 0.12 | 1 | 08/11/23 14:21 | 08/12/23 06:13 | 7440-70-2 | |
| Magnesium | 3.9 | mg/L | 0.050 | 0.012 | 1 | 08/11/23 14:21 | 08/12/23 06:13 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/16/23 10:27 | 08/18/23 18:52 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/16/23 10:27 | 08/18/23 18:52 | 7440-38-2 | |
| Barium | 0.12 | mg/L | 0.0050 | 0.00067 | 1 | 08/16/23 10:27 | 08/18/23 18:52 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/16/23 10:27 | 08/18/23 18:52 | 7440-41-7 | |
| Boron | 0.55 | mg/L | 0.20 | 0.043 | 5 | 08/16/23 10:27 | 08/22/23 13:32 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/16/23 10:27 | 08/18/23 18:52 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/16/23 10:27 | 08/18/23 18:52 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/16/23 10:27 | 08/18/23 18:52 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/16/23 10:27 | 08/18/23 18:52 | 7439-92-1 | |
| Lithium | 0.092 | mg/L | 0.030 | 0.00073 | 1 | 08/16/23 10:27 | 08/18/23 18:52 | 7439-93-2 | |
| Molybdenum | 0.0013J | mg/L | 0.010 | 0.00074 | 1 | 08/16/23 10:27 | 08/18/23 18:52 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/16/23 10:27 | 08/18/23 18:52 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/16/23 10:27 | 08/18/23 18:52 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/15/23 10:30 | 08/15/23 15:14 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 361 | mg/L | 25.0 | 25.0 | 1 | | 08/14/23 13:17 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 279 | mg/L | 5.0 | 5.0 | 1 | | 08/15/23 15:02 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/15/23 15:02 | | |
| Alkalinity, Total as CaCO3 | 279 | mg/L | 5.0 | 5.0 | 1 | | 08/15/23 15:02 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | 0.14 | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:17 | 18496-25-8 | M1,R1 |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 27.0 | mg/L | 1.0 | 0.60 | 1 | | 08/12/23 21:23 | 16887-00-6 | M1 |

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ANALYTICAL RESULTS

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

Sample: HAM-HGWA-44D Lab ID: 92681885005 Collected: 08/08/23 10:59 Received: 08/09/23 11:40 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-----|------|------|-------|---|--|----------------|------------|----|
| Fluoride | 1.3 | mg/L | 0.10 | 0.050 | 1 | | 08/12/23 21:23 | 16984-48-8 | M1 |
| Sulfate | 1.3 | mg/L | 1.0 | 0.50 | 1 | | 08/12/23 21:23 | 14808-79-8 | |

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QUALITY CONTROL DATA

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 792418 | Analysis Method: | EPA 6010D |
| QC Batch Method: | EPA 3010A | Analysis Description: | 6010D ATL |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92681885001, 92681885002, 92681885003, 92681885004, 92681885005

METHOD BLANK: 4106293 Matrix: Water

Associated Lab Samples: 92681885001, 92681885002, 92681885003, 92681885004, 92681885005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 08/12/23 04:46 | |
| Iron | mg/L | ND | 0.040 | 0.025 | 08/12/23 04:46 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 08/12/23 04:46 | |
| Manganese | mg/L | ND | 0.040 | 0.011 | 08/12/23 04:46 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 08/12/23 04:46 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 08/12/23 04:46 | |

LABORATORY CONTROL SAMPLE: 4106294

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 1 | 0.98J | 98 | 80-120 | |
| Iron | mg/L | 1 | 1.0 | 103 | 80-120 | |
| Magnesium | mg/L | 1 | 1.0 | 105 | 80-120 | |
| Manganese | mg/L | 1 | 1.0 | 105 | 80-120 | |
| Potassium | mg/L | 1 | 1.1 | 111 | 80-120 | |
| Sodium | mg/L | 1 | 1.0 | 101 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4106295 4106296

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|--------|----------|-----------|--------------|--------|---------|-------|
| | | Spike Conc. | Result | Spike Conc. | Result | | | | | | |
| Calcium | mg/L | 40.7 | 1 | 1 | 41.4 | 41.0 | 71 | 33 | 75-125 | 1 | 20 M1 |
| Iron | mg/L | 0.13 | 1 | 1 | 1.2 | 1.1 | 111 | 102 | 75-125 | 8 | 20 |
| Magnesium | mg/L | 22.1 | 1 | 1 | 22.9 | 22.8 | 81 | 67 | 75-125 | 1 | 20 M1 |
| Manganese | mg/L | 0.020J | 1 | 1 | 1.1 | 1.1 | 106 | 105 | 75-125 | 1 | 20 |
| Potassium | mg/L | 1.3 | 1 | 1 | 2.3 | 2.3 | 108 | 102 | 75-125 | 3 | 20 |
| Sodium | mg/L | 1.8 | 1 | 1 | 2.8 | 2.8 | 100 | 97 | 75-125 | 1 | 20 |

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QUALITY CONTROL DATA

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 793883 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6020 MET |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92681885001, 92681885002, 92681885003, 92681885004, 92681885005

METHOD BLANK: 4113580 Matrix: Water

Associated Lab Samples: 92681885001, 92681885002, 92681885003, 92681885004, 92681885005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.0012 | 08/18/23 18:03 | |
| Arsenic | mg/L | ND | 0.010 | 0.0037 | 08/18/23 18:03 | |
| Barium | mg/L | ND | 0.0050 | 0.00067 | 08/18/23 18:03 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000054 | 08/18/23 18:03 | |
| Boron | mg/L | ND | 0.040 | 0.0086 | 08/18/23 18:03 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00011 | 08/18/23 18:03 | |
| Chromium | mg/L | ND | 0.0050 | 0.0011 | 08/18/23 18:03 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00039 | 08/18/23 18:03 | |
| Lead | mg/L | ND | 0.0010 | 0.00012 | 08/18/23 18:03 | |
| Lithium | mg/L | ND | 0.030 | 0.00073 | 08/18/23 18:03 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00074 | 08/18/23 18:03 | |
| Selenium | mg/L | ND | 0.0050 | 0.0014 | 08/18/23 18:03 | |
| Thallium | mg/L | ND | 0.0010 | 0.00018 | 08/18/23 18:03 | |

LABORATORY CONTROL SAMPLE: 4113581

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Barium | mg/L | 0.1 | 0.094 | 94 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.11 | 108 | 80-120 | |
| Boron | mg/L | 1 | 1.1 | 108 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Lead | mg/L | 0.1 | 0.11 | 107 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.11 | 113 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.11 | 107 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.10 | 105 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4113582 4113583

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92681883002 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.10 | 105 | 100 | 75-125 | 5 | 20 | | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.10 | 106 | 100 | 75-125 | 6 | 20 | | |

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QUALITY CONTROL DATA

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

| Parameter | Units | 4113582 | | 4113583 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 92681883002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Barium | mg/L | 0.032 | 0.1 | 0.1 | 0.14 | 0.13 | 109 | 103 | 75-125 | 4 | 20 | | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.097 | 0.092 | 97 | 92 | 75-125 | 5 | 20 | | |
| Boron | mg/L | 0.18 | 1 | 1 | 1.2 | 1.2 | 102 | 98 | 75-125 | 3 | 20 | | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.098 | 101 | 98 | 75-125 | 3 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.096 | 100 | 95 | 75-125 | 4 | 20 | | |
| Cobalt | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.096 | 101 | 96 | 75-125 | 5 | 20 | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.10 | 109 | 104 | 75-125 | 5 | 20 | | |
| Lithium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 100 | 75-125 | 2 | 20 | | |
| Molybdenum | mg/L | 0.0039J | 0.1 | 0.1 | 0.11 | 0.10 | 102 | 99 | 75-125 | 3 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.10 | 110 | 104 | 75-125 | 6 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.10 | 108 | 103 | 75-125 | 5 | 20 | | |

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QUALITY CONTROL DATA

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

| | | | |
|-------------------------|---|-----------------------|--|
| QC Batch: | 793520 | Analysis Method: | EPA 7470A |
| QC Batch Method: | EPA 7470A | Analysis Description: | 7470 Mercury |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |
| Associated Lab Samples: | 92681885001, 92681885002, 92681885003, 92681885004, 92681885005 | | |

METHOD BLANK: 4112011 Matrix: Water
 Associated Lab Samples: 92681885001, 92681885002, 92681885003, 92681885004, 92681885005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00020 | 0.00013 | 08/15/23 14:00 | |

LABORATORY CONTROL SAMPLE: 4112012

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0024 | 94 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112013 4112014

| Parameter | Units | 4112013 | | 4112014 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Mercury | mg/L | ND | 0.0025 | 0.0022 | 0.0023 | 82 | 87 | 75-125 | 5 | 20 | |

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QUALITY CONTROL DATA

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

| | |
|--------------------------------|--|
| QC Batch: 793055 | Analysis Method: SM 2540C-2015 |
| QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids |
| | Laboratory: Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92681885001

METHOD BLANK: 4109645 Matrix: Water
 Associated Lab Samples: 92681885001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 08/11/23 13:55 | |

LABORATORY CONTROL SAMPLE: 4109646

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 430 | 108 | 80-120 | |

SAMPLE DUPLICATE: 4109647

| Parameter | Units | 92682122001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 184 | 194 | 5 | 10 | |

SAMPLE DUPLICATE: 4109648

| Parameter | Units | 92681884001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 214 | 264 | 21 | 10 D6 | |

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QUALITY CONTROL DATA

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

| | | | |
|------------------|---------------|-----------------------|--|
| QC Batch: | 793414 | Analysis Method: | SM 2540C-2015 |
| QC Batch Method: | SM 2540C-2015 | Analysis Description: | 2540C Total Dissolved Solids |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92681885002, 92681885003, 92681885004, 92681885005

METHOD BLANK: 4111318 Matrix: Water
 Associated Lab Samples: 92681885002, 92681885003, 92681885004, 92681885005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 08/14/23 13:14 | |

LABORATORY CONTROL SAMPLE: 4111319

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 436 | 109 | 80-120 | |

SAMPLE DUPLICATE: 4111320

| Parameter | Units | 92681885002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 189 | 193 | 2 | 10 | |

SAMPLE DUPLICATE: 4111321

| Parameter | Units | 92682120003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 61.0 | 62.0 | 2 | 10 | |

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QUALITY CONTROL DATA

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

QC Batch: 793564 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92681885001, 92681885002, 92681885003, 92681885004

METHOD BLANK: 4112177 Matrix: Water

Associated Lab Samples: 92681885001, 92681885002, 92681885003, 92681885004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 08/15/23 19:14 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 08/15/23 19:14 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 08/15/23 19:14 | |

LABORATORY CONTROL SAMPLE: 4112178

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.7 | 105 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4112179

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 50.3 | 101 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112180 4112181

| Parameter | Units | 92681885003 | | 4112180 | | 4112181 | | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------|----------------|-----------------|-----------|------------|----------|--------------|--------|---------|-------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 212 | 50 | 50 | 267 | 273 | 109 | 122 | 80-120 | 2 | 25 M1 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112182 4112183

| Parameter | Units | 92681885004 | | 4112182 | | 4112183 | | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------|----------------|-----------------|-----------|------------|----------|--------------|--------|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 251 | 50 | 50 | 308 | 301 | 114 | 100 | 80-120 | 2 | 25 |

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QUALITY CONTROL DATA

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

QC Batch: 793596

Analysis Method: SM 2320B-2011

QC Batch Method: SM 2320B-2011

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92681885005

METHOD BLANK: 4112305

Matrix: Water

Associated Lab Samples: 92681885005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 08/15/23 11:24 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 08/15/23 11:24 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 08/15/23 11:24 | |

LABORATORY CONTROL SAMPLE: 4112306

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 53.7 | 107 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4112307

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 49.7 | 99 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112308 4112309

| Parameter | Units | 4112308 | | 4112309 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|-------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 92681908004 Result: 99.9 | 50 | 50 | 159 | 163 | 118 | 126 | 80-120 | 2 | 25 M1 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112310 4112311

| Parameter | Units | 4112310 | | 4112311 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------------------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 92681908005 Result: 5.3 | 50 | 50 | 58.0 | 58.8 | 105 | 107 | 80-120 | 1 | 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

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QUALITY CONTROL DATA

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

QC Batch: 793499 Analysis Method: SM 4500-S2D-2011
 QC Batch Method: SM 4500-S2D-2011 Analysis Description: 4500S2D Sulfide Water
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92681885001, 92681885002, 92681885003, 92681885004, 92681885005

METHOD BLANK: 4111952 Matrix: Water
 Associated Lab Samples: 92681885001, 92681885002, 92681885003, 92681885004, 92681885005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide | mg/L | ND | 0.10 | 0.022 | 08/15/23 06:10 | |

LABORATORY CONTROL SAMPLE: 4111953

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide | mg/L | 0.5 | 0.50 | 99 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4111954 4111955

| Parameter | Units | 92681883001 | | 4111954 | | 4111955 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-----------------|-----------|-----------------|-----------|-----------------|-------|-------|--------------|-----|---------|------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | | | |
| Sulfide | mg/L | 0.16 | 0.5 | 0.5 | 0.5 | 0.68 | 0.59 | 102 | 84 | 80-120 | 14 | 10 | R1 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4111956 4111957

| Parameter | Units | 92681885005 | | 4111956 | | 4111957 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-----------------|-----------|-----------------|-----------|-----------------|-------|-------|--------------|-----|---------|-------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | | | |
| Sulfide | mg/L | 0.14 | 0.5 | 0.5 | 0.5 | 0.53 | 0.60 | 79 | 93 | 80-120 | 12 | 10 | M1,R1 |

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

QC Batch: 793207 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92681885001, 92681885002, 92681885003, 92681885004, 92681885005

METHOD BLANK: 4110503 Matrix: Water
 Associated Lab Samples: 92681885001, 92681885002, 92681885003, 92681885004, 92681885005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 08/12/23 16:56 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 08/12/23 16:56 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 08/12/23 16:56 | |

LABORATORY CONTROL SAMPLE: 4110504

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 49.8 | 100 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.4 | 96 | 90-110 | |
| Sulfate | mg/L | 50 | 49.9 | 100 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4110505 4110506

| Parameter | Units | 92681883001 | | 4110505 | | 4110506 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|------------|----------------|-----------------|-----------|------------|-------|-------|--------------|-----|---------|------|
| | | MS Result | MSD Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Chloride | mg/L | 3.6 | 3.6 | 50 | 50 | 51.2 | 52.5 | 95 | 98 | 90-110 | 3 | 10 | |
| Fluoride | mg/L | 0.19 | 0.19 | 2.5 | 2.5 | 2.4 | 2.5 | 90 | 92 | 90-110 | 2 | 10 | |
| Sulfate | mg/L | 2.2 | 2.2 | 50 | 50 | 49.7 | 51.1 | 95 | 98 | 90-110 | 3 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4110507 4110508

| Parameter | Units | 92681885005 | | 4110507 | | 4110508 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|------------|----------------|-----------------|-----------|------------|-------|-------|--------------|-----|---------|------|
| | | MS Result | MSD Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Chloride | mg/L | 27.0 | 27.0 | 50 | 50 | 71.4 | 72.9 | 89 | 92 | 90-110 | 2 | 10 M1 | |
| Fluoride | mg/L | 1.3 | 1.3 | 2.5 | 2.5 | 3.3 | 3.4 | 83 | 86 | 90-110 | 2 | 10 M1 | |
| Sulfate | mg/L | 1.3 | 1.3 | 50 | 50 | 47.3 | 48.3 | 92 | 94 | 90-110 | 2 | 10 | |

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Pool Hammond Pooled Upgradient

Pace Project No.: 92681885

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------|------------------------|----------|-------------------|------------------|
| 92681885001 | HAM-HGWA-1 | EPA 3010A | 792418 | EPA 6010D | 793158 |
| 92681885002 | HAM-HGWA-2 | EPA 3010A | 792418 | EPA 6010D | 793158 |
| 92681885003 | HAM-HGWA-3 | EPA 3010A | 792418 | EPA 6010D | 793158 |
| 92681885004 | HAM-HGWA-43D | EPA 3010A | 792418 | EPA 6010D | 793158 |
| 92681885005 | HAM-HGWA-44D | EPA 3010A | 792418 | EPA 6010D | 793158 |
| 92681885001 | HAM-HGWA-1 | EPA 3005A | 793883 | EPA 6020B | 794015 |
| 92681885002 | HAM-HGWA-2 | EPA 3005A | 793883 | EPA 6020B | 794015 |
| 92681885003 | HAM-HGWA-3 | EPA 3005A | 793883 | EPA 6020B | 794015 |
| 92681885004 | HAM-HGWA-43D | EPA 3005A | 793883 | EPA 6020B | 794015 |
| 92681885005 | HAM-HGWA-44D | EPA 3005A | 793883 | EPA 6020B | 794015 |
| 92681885001 | HAM-HGWA-1 | EPA 7470A | 793520 | EPA 7470A | 793623 |
| 92681885002 | HAM-HGWA-2 | EPA 7470A | 793520 | EPA 7470A | 793623 |
| 92681885003 | HAM-HGWA-3 | EPA 7470A | 793520 | EPA 7470A | 793623 |
| 92681885004 | HAM-HGWA-43D | EPA 7470A | 793520 | EPA 7470A | 793623 |
| 92681885005 | HAM-HGWA-44D | EPA 7470A | 793520 | EPA 7470A | 793623 |
| 92681885001 | HAM-HGWA-1 | SM 2540C-2015 | 793055 | | |
| 92681885002 | HAM-HGWA-2 | SM 2540C-2015 | 793414 | | |
| 92681885003 | HAM-HGWA-3 | SM 2540C-2015 | 793414 | | |
| 92681885004 | HAM-HGWA-43D | SM 2540C-2015 | 793414 | | |
| 92681885005 | HAM-HGWA-44D | SM 2540C-2015 | 793414 | | |
| 92681885001 | HAM-HGWA-1 | SM 2320B-2011 | 793564 | | |
| 92681885002 | HAM-HGWA-2 | SM 2320B-2011 | 793564 | | |
| 92681885003 | HAM-HGWA-3 | SM 2320B-2011 | 793564 | | |
| 92681885004 | HAM-HGWA-43D | SM 2320B-2011 | 793564 | | |
| 92681885005 | HAM-HGWA-44D | SM 2320B-2011 | 793596 | | |
| 92681885001 | HAM-HGWA-1 | SM 4500-S2D-2011 | 793499 | | |
| 92681885002 | HAM-HGWA-2 | SM 4500-S2D-2011 | 793499 | | |
| 92681885003 | HAM-HGWA-3 | SM 4500-S2D-2011 | 793499 | | |
| 92681885004 | HAM-HGWA-43D | SM 4500-S2D-2011 | 793499 | | |
| 92681885005 | HAM-HGWA-44D | SM 4500-S2D-2011 | 793499 | | |
| 92681885001 | HAM-HGWA-1 | EPA 300.0 Rev 2.1 1993 | 793207 | | |
| 92681885002 | HAM-HGWA-2 | EPA 300.0 Rev 2.1 1993 | 793207 | | |
| 92681885003 | HAM-HGWA-3 | EPA 300.0 Rev 2.1 1993 | 793207 | | |
| 92681885004 | HAM-HGWA-43D | EPA 300.0 Rev 2.1 1993 | 793207 | | |
| 92681885005 | HAM-HGWA-44D | EPA 300.0 Rev 2.1 1993 | 793207 | | |

REPORT OF LABORATORY ANALYSIS

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DC#_ Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO# 92681885



Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *8/9/23*
COG

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer:

IR Gun ID:

2/4

Type of Ice:

Wet Blue None

Cooler Temp:

2.1

Correction Factor: Add/Subtract (°C)

0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

2.1

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | Comments/Discrepancy: |
|--|-----------------------|
| Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: <i>W</i> | |
| Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager-SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO# : 92681885
 RM: BV Due Date: 08/23/23
 CLIENT: 92- GP-HAM

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic Zn Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass Jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | V69T-40 mL VOA Na2SO3 (N/A) | V69U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|-----------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|--|
| 1 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).

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

| | | | | | |
|--|----------------------|---|--|--|-----------------------|
| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
| Company: GA Power | Address: Atlanta, GA | Report To: SCS Contacts | Copy To: Geosynthetic Contacts | Attention: Southern Co. | Company Name: |
| Phone: SCS Contacts | Fac: Fax | Purchase Order No.: | Project Name: Plant Hammond Pooled Upgrade/ret | Address: | Pace Quorle |
| Requested Due Date/TAT: 10 Day | | Project Number: | Project Location: Plant Hammond Pooled Upgrade/ret | Reference: | Pace Project Manager: |
| | | | | Manager: | Manager: |
| | | | | Pace Profile #: | 10839-16465-9.00 |
| | | | | Requested Analysis Filtered (Y/N) | |
| | | | | REGULATORY AGENCY: | REGULATORY AGENCY: |
| | | | | NPDES | GROUND WATER |
| | | | | UST | RCRA |
| | | | | DRINKING WATER | OTHER CER |
| | | | | GA | |

| ITEM # | Section D Required Client Information | Valid Matrix Codes MATRIX CODE | DATE | TIME | DATE | TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | | Analysis Test | | | | | Residual Chlorine (Y/N) | Pace Project No./Lab I.D. | | | | | | | | | |
|--------|--|-----------------------------------|--------|------|------|------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|----------|---------------|-----------------------------|-----------------------------|-------------|-----|-------------------------|---------------------------|-------------------------------|---|---|---|---|---|---|--|--|
| | | | | | | | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₃ | Methanol | Other | Chloride, Fluoride, Sulfate | Full App. III and IV metals | RAD 226/228 | TDS | | | Major Ions (Profile 10839-2): | | | | | | | | |
| 1 | HAM-HGWA-1 | WT G | 8/8/23 | 1047 | | | | 7 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| 2 | HAM-HGWA-2 | WT G | 8/8/23 | 1608 | | | | 7 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| 3 | HAM-HGWA-3 | WT G | 8/8/23 | 1445 | | | | 7 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| 4 | HAM-HGWA-43D | WT G | 8/8/23 | 1105 | | | | 7 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| 5 | HAM-HGWA-44D | WT G | 8/8/23 | 1059 | | | | 7 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ADDITIONAL COMMENTS:
Task Code: HAM-COR-ASSMT-2023S2

RELINQUISHED BY / AFFILIATION: Thomas Koster / GEOSYNTHETIC CONSULTANTS, INC. DATE: 8/14/23 TIME: 11:40 AM

ACCEPTED BY / AFFILIATION: Brian Williams / Pace Geosynthetic Consultants, Inc. DATE: 8/14/23 TIME: 14:15

REGULATORY AGENCY: NPDES / GROUND WATER / UST / RCRA / DRINKING WATER / OTHER CER

Temp in °C: / **Received on ice (Y/N):** / **Custody Sealed Cooler (Y/N):** / **Samples Intact (Y/N):**

SAAMPLER NAME AND SIGNATURE: Brian Williams

PRINT Name of SAMPLER: / **SIGNATURE of SAMPLER:**

DATE Signed (MM/DD/YY): / **SAAMPLER NAME AND SIGNATURE:**



September 12, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Plant Hammond Pooled Up- RADs
Pace Project No.: 92681881

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on August 09, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Hammond Pooled Up- RADs

Pace Project No.: 92681881

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

ANABISO/IEC 17025:2017 Rad Cert#: L24170

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 2950

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA010

Louisiana DEQ/TNI Certification #: 04086

Maine Certification #: 2023021

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572023-03

New Hampshire/TNI Certification #: 297622

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-015

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN02867

Texas/TNI Certification #: T104704188-22-18

Utah/TNI Certification #: PA014572223-14

USDA Soil Permit #: 525-23-67-77263

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Hammond Pooled Up- RADs
Pace Project No.: 92681881

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|--------------|--------|----------------|----------------|
| 92681881001 | HAM-HGWA-1 | Water | 08/08/23 10:47 | 08/09/23 11:40 |
| 92681881002 | HAM-HGWA-2 | Water | 08/08/23 16:08 | 08/09/23 11:40 |
| 92681881003 | HAM-HGWA-3 | Water | 08/08/23 14:45 | 08/09/23 11:40 |
| 92681881004 | HAM-HGWA-43D | Water | 08/08/23 11:05 | 08/09/23 11:40 |
| 92681881005 | HAM-HGWA-44D | Water | 08/08/23 10:59 | 08/09/23 11:40 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Hammond Pooled Up- RADs

Pace Project No.: 92681881

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------|--------------------------|----------|-------------------|------------|
| 92681881001 | HAM-HGWA-1 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92681881002 | HAM-HGWA-2 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92681881003 | HAM-HGWA-3 | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92681881004 | HAM-HGWA-43D | EPA 9315 | SLC | 1 | PASI-PA |
| | | EPA 9320 | JJS1 | 1 | PASI-PA |
| | | Total Radium Calculation | LAL | 1 | PASI-PA |
| 92681881005 | HAM-HGWA-44D | EPA 9315 | SLC | 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

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SUMMARY OF DETECTION

Project: Plant Hammond Pooled Up- RADs

Pace Project No.: 92681881

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------|--------------------------------|---|-------|--------------|----------------|------------|
| 92681881001 | HAM-HGWA-1 | | | | | |
| EPA 9315 | Radium-226 | 0.0885U ± 0.147 (0.331) | pCi/L | | 09/06/23 18:49 | |
| EPA 9320 | Radium-228 | C:89% T:NA 0.106U ± 0.437 (0.985) | pCi/L | | 08/31/23 12:13 | |
| Total Radium Calculation | Total Radium | C:85% T:73% 0.195U ± 0.584 (1.32) | pCi/L | | 09/11/23 09:31 | |
| 92681881002 | HAM-HGWA-2 | | | | | |
| EPA 9315 | Radium-226 | 0.175U ± 0.160 (0.305) | pCi/L | | 09/06/23 18:56 | |
| EPA 9320 | Radium-228 | C:89% T:NA -0.273U ± 0.419 (1.02) | pCi/L | | 08/31/23 12:14 | |
| Total Radium Calculation | Total Radium | C:87% T:68% 0.175U ± 0.579 (1.33) | pCi/L | | 09/11/23 09:31 | |
| 92681881003 | HAM-HGWA-3 | | | | | |
| EPA 9315 | Radium-226 | 0.140U ± 0.152 (0.308) | pCi/L | | 09/07/23 08:44 | |
| EPA 9320 | Radium-228 | C:79% T:NA 0.271U ± 0.371 (0.795) | pCi/L | | 08/31/23 12:13 | |
| Total Radium Calculation | Total Radium | C:86% T:80% 0.411U ± 0.523 (1.10) | pCi/L | | 09/11/23 09:31 | |
| 92681881004 | HAM-HGWA-43D | | | | | |
| EPA 9315 | Radium-226 | 0.377 ± 0.213 (0.334) | pCi/L | | 09/06/23 13:09 | |
| EPA 9320 | Radium-228 | C:90% T:NA 0.126U ± 0.398 (0.893) | pCi/L | | 08/31/23 12:12 | |
| Total Radium Calculation | Total Radium | C:82% T:79% 0.503U ± 0.611 (1.23) | pCi/L | | 09/11/23 09:31 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Hammond Pooled Up- RADs

Pace Project No.: 92681881

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------|--------------------------------|---|-------|--------------|----------------|------------|
| 92681881005 | HAM-HGWA-44D | | | | | |
| EPA 9315 | Radium-226 | 0.163U ± 0.150 (0.285) C:89% T:NA | pCi/L | | 09/07/23 15:00 | |
| EPA 9320 | Radium-228 | -0.116U ± 0.258 (0.640) C:86% T:83% | pCi/L | | 08/31/23 15:30 | |
| Total Radium Calculation | Total Radium | 0.163U ± 0.408 (0.925) | pCi/L | | 09/08/23 17:15 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond Pooled Up- RADs

Pace Project No.: 92681881

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---------------------------------------|---|-------|----------------|------------|------|
| Sample: HAM-HGWA-1 Lab ID: 92681881001 Collected: 08/08/23 10:47 Received: 08/09/23 11:40 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.0885U ± 0.147 (0.331) C:89% T:NA | pCi/L | 09/06/23 18:49 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.106U ± 0.437 (0.985) C:85% T:73% | pCi/L | 08/31/23 12:13 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.195U ± 0.584 (1.32) | pCi/L | 09/11/23 09:31 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond Pooled Up- RADs

Pace Project No.: 92681881

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|---|-------|----------------|------------|------|
| Sample: HAM-HGWA-2 Lab ID: 92681881002 Collected: 08/08/23 16:08 Received: 08/09/23 11:40 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.175U ± 0.160 (0.305) C:89% T:NA | pCi/L | 09/06/23 18:56 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | -0.273U ± 0.419 (1.02) C:87% T:68% | pCi/L | 08/31/23 12:14 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.175U ± 0.579 (1.33) | pCi/L | 09/11/23 09:31 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond Pooled Up- RADs

Pace Project No.: 92681881

Sample: HAM-HGWA-3 **Lab ID: 92681881003** Collected: 08/08/23 14:45 Received: 08/09/23 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 | 0.140U ± 0.152 (0.308) C:79% T:NA | pCi/L | 09/07/23 08:44 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.271U ± 0.371 (0.795) C:86% T:80% | pCi/L | 08/31/23 12:13 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.411U ± 0.523 (1.10) | pCi/L | 09/11/23 09:31 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond Pooled Up- RADs

Pace Project No.: 92681881

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|---------------------------------------|---|-------|----------------|------------|------|
| Sample: HAM-HGWA-43D Lab ID: 92681881004 Collected: 08/08/23 11:05 Received: 08/09/23 11:40 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.377 ± 0.213 (0.334) C:90% T:NA | pCi/L | 09/06/23 13:09 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.126U ± 0.398 (0.893) C:82% T:79% | pCi/L | 08/31/23 12:12 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.503U ± 0.611 (1.23) | pCi/L | 09/11/23 09:31 | 7440-14-4 | |

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond Pooled Up- RADs

Pace Project No.: 92681881

Sample: HAM-HGWA-44D **Lab ID: 92681881005** Collected: 08/08/23 10:59 Received: 08/09/23 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 | 0.163U ± 0.150 (0.285) C:89% T:NA | pCi/L | 09/07/23 15:00 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | -0.116U ± 0.258 (0.640) C:86% T:83% | pCi/L | 08/31/23 15:30 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.163U ± 0.408 (0.925) | pCi/L | 09/08/23 17:15 | 7440-14-4 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond Pooled Up- RADs
 Pace Project No.: 92681881

QC Batch: 610549 Analysis Method: EPA 9320
 QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
 Laboratory: Pace Analytical Services - Greensburg
 Associated Lab Samples: 92681881001, 92681881002, 92681881003, 92681881004

METHOD BLANK: 2971498 Matrix: Water
 Associated Lab Samples: 92681881001, 92681881002, 92681881003, 92681881004

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.453 ± 0.248 (0.409) C:88% T:87% | pCi/L | 08/31/23 12:16 | |

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond Pooled Up- RADs
 Pace Project No.: 92681881

| | |
|---------------------------|---|
| QC Batch: 610551 | Analysis Method: EPA 9320 |
| QC Batch Method: EPA 9320 | Analysis Description: 9320 Radium 228 |
| | Laboratory: Pace Analytical Services - Greensburg |

Associated Lab Samples: 92681881005

METHOD BLANK: 2971504 Matrix: Water

Associated Lab Samples: 92681881005

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|------------------------------------|-------|----------------|------------|
| Radium-228 | 0.0282 ± 0.177 (0.418) C:85% T:91% | pCi/L | 08/31/23 15:33 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond Pooled Up- RADs
 Pace Project No.: 92681881

| | |
|---------------------------|---|
| QC Batch: 611645 | Analysis Method: EPA 9315 |
| QC Batch Method: EPA 9315 | Analysis Description: 9315 Total Radium |
| | Laboratory: Pace Analytical Services - Greensburg |

Associated Lab Samples: 92681881005

METHOD BLANK: 2977130 Matrix: Water

Associated Lab Samples: 92681881005

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|------------------------------------|-------|----------------|------------|
| Radium-226 | 0.0856 ± 0.0973 (0.188) C:95% T:NA | pCi/L | 09/07/23 15:00 | |

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond Pooled Up- RADs

Pace Project No.: 92681881

QC Batch: 610646

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92681881001, 92681881002, 92681881003, 92681881004

METHOD BLANK: 2971911

Matrix: Water

Associated Lab Samples: 92681881001, 92681881002, 92681881003, 92681881004

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-226 | 0.0783 ± 0.129 (0.288) C:89% T:NA | pCi/L | 09/06/23 10:17 | |

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

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QUALIFIERS

Project: Plant Hammond Pooled Up- RADs

Pace Project No.: 92681881

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond Pooled Up- RADs

Pace Project No.: 92681881

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------|--------------------------|----------|-------------------|------------------|
| 92681881001 | HAM-HGWA-1 | EPA 9315 | 610646 | | |
| 92681881002 | HAM-HGWA-2 | EPA 9315 | 610646 | | |
| 92681881003 | HAM-HGWA-3 | EPA 9315 | 610646 | | |
| 92681881004 | HAM-HGWA-43D | EPA 9315 | 610646 | | |
| 92681881005 | HAM-HGWA-44D | EPA 9315 | 611645 | | |
| 92681881001 | HAM-HGWA-1 | EPA 9320 | 610549 | | |
| 92681881002 | HAM-HGWA-2 | EPA 9320 | 610549 | | |
| 92681881003 | HAM-HGWA-3 | EPA 9320 | 610549 | | |
| 92681881004 | HAM-HGWA-43D | EPA 9320 | 610549 | | |
| 92681881005 | HAM-HGWA-44D | EPA 9320 | 610551 | | |
| 92681881001 | HAM-HGWA-1 | Total Radium Calculation | 614459 | | |
| 92681881002 | HAM-HGWA-2 | Total Radium Calculation | 614459 | | |
| 92681881003 | HAM-HGWA-3 | Total Radium Calculation | 614459 | | |
| 92681881004 | HAM-HGWA-43D | Total Radium Calculation | 614459 | | |
| 92681881005 | HAM-HGWA-44D | Total Radium Calculation | 614326 | | |

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DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

G A Power

Project #:

WO#: 92681881



Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *8/9/23*
COG

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer:

IR Gun ID:

2/4

Type of Ice:

Wet Blue None

Cooler Temp:

2.1

Correction Factor: Add/Subtract (°C)

0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

2.1

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | Comments/Discrepancy: |
|---|--|-----------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: | <i>W</i> | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURE Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92681881

PM: BV

Due Date: 08/30/23

CLIENT: 92- GP-HAM

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic 2N Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass Jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | | | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|--|--|
| 1 | 2 | 1 | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | 1 | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2 | 1 | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2 | 1 | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2 | 1 | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Section A Required Client Information: Company: GA Power Address: Atlanta, GA
Section B Required Project Information: Report To: SCS Contacts Copy To: Geosyntec Contacts
Section C Invoice Information: Attention: Southern Co. Company Name: Address: Purchase Order No.: Plant Hammond Pooled Upgradient Project Name: Project Number: 16485-9-20
 Reference: Bonnie Vang Site Location: GA
 Manager: Price Profile #: 10839-1502-376

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER CCR

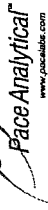
Section D Requested Client Information: Valid Matrix Codes: MATRIX CODE (see valid codes to left)
 SAMPLE TYPE (G=GRAB C=COMP)
 DATE TIME DATE TIME
 SAMPLE TEMP AT COLLECTION
 # OF CONTAINERS
 Unpreserved
 H₂SO₄
 HNO₃
 HCl
 NaOH
 Na₂S₂O₃
 Methanol
 Other
 Analysis Test
 Chloride, Fluoride, Sulfate
 Full App. III and IV metals
 RAD 226/228
 TDS
 Major Ions (Profile 10839-2):
 Residual Chlorine (Y/N)
 Pace Project No./ Lab I.D. 9268/881

| ITEM # | Section D Requested Client Information | Valid Matrix Codes MATRIX CODE | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | Analysis Test | Requested Analysis Filtered (Y/N) | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|--------|---|-----------------------------------|-----------------------------|-----------|------|---------------------------|-----------------|---------------|---------------|-----------------------------------|------------|-----------------------|-----------------------------|----------------------|
| | | | | DATE | TIME | | | | | | | | | |
| 1 | HAM-HGWA-1 | WT G | G | 8/8/23 | 1047 | 19 | 7 | 3 | 3 | 1 | | | | |
| 2 | HAM-HGWA-2 | WT G | G | 8/8/23 | 1608 | 19 | 7 | 3 | 3 | 1 | | | | |
| 3 | HAM-HGWA-3 | WT G | G | 8/8/23 | 1445 | 19 | 7 | 3 | 3 | 1 | | | | |
| 4 | HAM-HGWA-43D | WT G | G | 8/8/23 | 1105 | 18 | 7 | 3 | 3 | 1 | | | | |
| 5 | HAM-HGWA-44D | WT G | G | 8/8/23 | 1059 | 19 | 7 | 3 | 3 | 1 | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

ADDITIONAL COMMENTS
 RELINQUISHED BY / AFFILIATION: Thomas Lester / Geosyntec DATE: 8/9/23 TIME: 1145
 ACCEPTED BY / AFFILIATION: Ryan Williams / Pace DATE: 8/9/23 TIME: 1415

SAMPLER NAME AND SIGNATURE
 PRINT NAME OF SAMPLER: Ryan Williams / Pace
 SIGNATURE OF SAMPLER: [Signature]
 DATE SIGNED (MM/DD/YY): 8/9/23

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228
Analyst: JJS1
Date: 8/26/2023
Worklist: 74945
Matrix: WT

| | |
|-------------------------|--|
| Method Blank Assessment | MB Sample ID: 2971498 |
| | MB concentration: 0.453 |
| | M/B 2 Sigma CSU: 0.248 |
| | MB MDC: 0.409 |
| | MB Numerical Performance Indicator: 3.58 |
| | MB Status vs Numerical Indicator: Fail* |
| | MB Status vs. MDC: See Comment* |

| Laboratory Control Sample Assessment | LCS (Y or N)? | |
|---|---------------|-----------|
| | LCS74945 | LCS74945 |
| Count Date: | 8/31/2023 | 8/31/2023 |
| Spike I.D.: | 23-043 | 23-043 |
| Decay Corrected Spike Concentration (pCi/mL): | 40.012 | 40.012 |
| Volume Used (mL): | 0.10 | 0.10 |
| Aliquot Volume (L, g, F): | 0.818 | 0.818 |
| Target Conc. (pCi/L, g, F): | 4.890 | 4.890 |
| Uncertainty (Calculated): | 0.240 | 0.240 |
| Result (pCi/L, g, F): | 3.106 | 4.025 |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.732 | 0.889 |
| Numerical Performance Indicator: | -4.54 | -1.84 |
| Percent Recovery: | 63.51% | 82.32% |
| Status vs Numerical Indicator: | N/A | N/A |
| Upper % Recovery Limits: | 135% | 135% |
| Lower % Recovery Limits: | 60% | 60% |

| Duplicate Sample Assessment | Matrix Spike/Matrix Spike Duplicate Sample Assessment |
|---|---|
| Sample I.D.: | Sample I.D.: |
| Duplicate Sample I.D.: | Sample MS I.D.: |
| Sample Result (pCi/L, g, F): | Sample MSD I.D.: |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | Sample Matrix Spike Result: |
| Sample Duplicate Result (pCi/L, g, F): | Sample Matrix Spike Duplicate Result: |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): |
| Are sample and/or duplicate results below RL? | Matrix Spike Duplicate Numerical Performance Indicator: |
| Duplicate Numerical Performance Indicator: | Duplicate Numerical Performance Indicator: |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | (Based on the Percent Recoveries) MS/MSD Duplicate RPD: |
| Duplicate Status vs Numerical Indicator: | MS/MSD Duplicate Status vs Numerical Indicator: |
| Duplicate Status vs RPD: | MS/MSD Duplicate Status vs RPD: |
| % RPD Limit: | % RPD Limit: |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

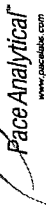
Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

| Sample Matrix Spike Control Assessment | MS/MSD 1 | MS/MSD 2 |
|---|----------|----------|
| Sample Collection Date: | | |
| Sample I.D.: | | |
| Sample MS I.D.: | | |
| Sample MSD I.D.: | | |
| Spike I.D.: | | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | | |
| Spike Volume Used in MS (mL): | | |
| Spike Volume Used in MSD (mL): | | |
| MS Aliquot (L, g, F): | | |
| MS Target Conc. (pCi/L, g, F): | | |
| MSD Aliquot (L, g, F): | | |
| MSD Target Conc. (pCi/L, g, F): | | |
| MS Spike Uncertainty (calculated): | | |
| MSD Spike Uncertainty (calculated): | | |
| Sample Result: | | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | | |
| Sample Matrix Spike Result: | | |
| Sample Matrix Spike Duplicate Result: | | |
| Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | | |
| MS Numerical Performance Indicator: | | |
| MSD Numerical Performance Indicator: | | |
| MS Percent Recovery: | | |
| MSD Percent Recovery: | | |
| MS Status vs Numerical Indicator: | | |
| MSD Status vs Numerical Indicator: | | |
| MS Status vs Recovery: | | |
| MSD Status vs Recovery: | | |
| MS/MSD Upper % Recovery Limits: | | |
| MS/MSD Lower % Recovery Limits: | | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment |
|---|
| Sample I.D.: |
| Sample MS I.D.: |
| Sample MSD I.D.: |
| Sample Matrix Spike Result: |
| Sample Matrix Spike Duplicate Result: |
| Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): |
| Matrix Spike Duplicate Numerical Performance Indicator: |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: |
| MS/MSD Duplicate Status vs Numerical Indicator: |
| MS/MSD Duplicate Status vs RPD: |
| % RPD Limit: |

7/15/23

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: ZPC
Date: 8/29/2023
Worklist: 74946
Matrix: WT

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2971504 |
| MB concentration: | 0.028 |
| M/B 2 Sigma CSU: | 0.177 |
| MB MDC: | 0.418 |
| MB Numerical Performance Indicator: | 0.31 |
| MB Status vs Numerical Indicator: | Pass |
| MB Status vs. MDC: | Pass |

| Laboratory Control Sample Assessment | LCS/D (Y or N)? | |
|---|-----------------|-----------|
| | LCS74946 | Y |
| Count Date: | 8/31/2023 | LCS74946 |
| Spike I.D.: | 23-043 | 8/31/2023 |
| Decay Corrected Spike Concentration (pCi/mL): | 40.010 | 23-043 |
| Volume Used (mL): | 0.10 | 40.010 |
| Aliquot Volume (L, g, F): | 0.816 | 0.10 |
| Target Conc. (pCi/L, g, F): | 4.905 | 0.815 |
| Uncertainty (Calculated): | 0.240 | 4.908 |
| Result (pCi/L, g, F): | 4.584 | 0.240 |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 1.002 | 4.915 |
| Numerical Performance Indicator: | -0.59 | 1.070 |
| Percent Recovery: | 93.66% | 0.01 |
| Status vs Numerical Indicator: | N/A | 100.15% |
| Upper % Recovery Limits: | 135% | N/A |
| Lower % Recovery Limits: | 60% | Pass |

| Duplicate Sample Assessment | Matrix Spike/Matrix Spike Duplicate Sample Assessment |
|--|---|
| Sample I.D.: | Sample I.D. |
| Duplicate Sample I.D.: | Sample MS I.D. |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | Sample MSD I.D. |
| Sample Duplicate Result (pCi/L, g, F): | Sample Matrix Spike Result: |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | Sample Matrix Spike Duplicate Result: |
| Are sample and/or duplicate results below RL? | Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): |
| Duplicate Numerical Performance Indicator: | Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): |
| Duplicate Status vs Numerical Indicator: | Duplicate Numerical Performance Indicator: |
| % RPD Limit: | (Based on the Percent Recoveries) MS/MSD Duplicate RPD: |
| | MS/MSD Duplicate Status vs Numerical Indicator: |
| | MS/MSD Duplicate Status vs RPD: |
| | % RPD Limit: |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Jasper

VAM 9/5/23



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 9/21/2023
Worklist: 74954
Matrix: WT

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2971911 |
| MB concentration: | 0.078 |
| MB 2 Sigma CSU: | 0.129 |
| MB MDC: | 0.288 |
| MB Numerical Performance Indicator: | 1.19 |
| MB Status vs Numerical Indicator: | Pass |
| MB Status vs MDC: | N/A |

| Laboratory Control Sample Assessment | | |
|---|----------------|-----------|
| Count Date: | LCS# (Y or N)? | Y |
| 9/6/2023 | LCS74954 | LCS#74954 |
| Decay Corrected Spike Concentration (pCi/mL): | 19.033 | 19.033 |
| Volume Used (mL): | 24.014 | 24.014 |
| Alliquot Volume (L, g, F): | 0.10 | 0.503 |
| Target Conc. (pCi/L, g, F): | 4.775 | 4.753 |
| Uncertainty (Calculated): | 0.057 | 0.057 |
| Result (pCi/L, g, F): | 5.365 | 5.002 |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 1.001 | 0.935 |
| Numerical Performance Indicator: | 1.15 | 0.52 |
| Percent Recovery: | 112.37% | 105.23% |
| 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.: | LCS#74954 | 92681881004 |
| Duplicate Sample I.D. | LCS#74954 | 92681881004DUP |
| Sample Result (pCi/L, g, F): | 5.365 | 0.377 |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 1.001 | 0.213 |
| Sample Duplicate Result (pCi/L, g, F): | 5.002 | 0.203 |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 0.935 | 0.178 |
| Are sample and/or duplicate results below RL? | NO | See Below ## |
| Duplicate Numerical Performance Indicator: | 0.520 | 1.231 |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | 6.56% | 60.17% |
| Duplicate Status vs Numerical Indicator: | Pass | Pass |
| Duplicate Status vs RPD: | N/A | N/A |
| % RPD Limit: | 25% | 25% |

| Sample Matrix Spike Control Assessment | | |
|--|----------|----------|
| Sample Collection Date: | MS/MSD 1 | MS/MSD 2 |
| Sample I.D. | | |
| Sample MS I.D. | | |
| Sample MSD I.D. | | |
| Spike I.D.: | | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | | |
| Spike Volume Used in MS (mL): | | |
| Spike Volume Used in MSD (mL): | | |
| MS Alliquot (L, g, F): | | |
| MS Target Conc. (pCi/L, g, F): | | |
| MSD Alliquot (L, g, F): | | |
| MSD Target Conc. (pCi/L, g, F): | | |
| MS Spike Uncertainty (calculated): | | |
| MSD Spike Uncertainty (calculated): | | |
| MSD Spike Uncertainty (calculated): | | |
| Sample Result: | | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | | |
| Sample Matrix Spike Result: | | |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | | |
| Sample Matrix Spike Duplicate Result: | | |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | | |
| MS Numerical Performance Indicator: | | |
| MSD Numerical Performance Indicator: | | |
| MS Percent Recovery: | | |
| MSD Percent Recovery: | | |
| MS Status vs Numerical Indicator: | | |
| MSD Status vs Numerical Indicator: | | |
| MS Status vs Recovery: | | |
| MSD Status vs Recovery: | | |
| MS/MSD Upper % Recovery Limits: | | |
| MS/MSD Lower % Recovery Limits: | | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | | |
|--|----------------|-----------------|
| Sample I.D.: | Sample MS I.D. | Sample MSD I.D. |
| Sample I.D. | | |
| Sample MS I.D. | | |
| Sample MSD I.D. | | |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | | |
| Sample Matrix Spike Duplicate Result: | | |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | | |
| Duplicate Numerical Performance Indicator: | | |
| (Based on the Percent Recoveries) MS/MSD Duplicate RPD: | | |
| MS/MSD Duplicate Status vs Numerical Indicator: | | |
| MS/MSD Duplicate Status vs RPD: | | |
| % RPD Limit: | | |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

MM 9/1/23



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
 Analyst: SLC
 Date: 9/21/2023
 Worklist: 75040
 Matrix: WT

| Method Blank Assessment | |
|-------------------------------------|---------|
| MB Sample ID | 2977130 |
| MB concentration: | 0.086 |
| MB 2 Sigma CSU: | 0.097 |
| MB MDC: | 0.188 |
| MB Numerical Performance Indicator: | 1.72 |
| MB Status vs Numerical Indicator: | Pass |
| MB Status vs MDC: | N/A |

| Laboratory Control Sample Assessment | | LCS0 (Y or N)? | Y |
|---|----------|----------------|-----------|
| Count Date: | 9/8/2023 | LCS75040 | LCS075040 |
| Spike ID: | 19-033 | | |
| Decay Corrected Spike Concentration (pCi/mL): | 24.013 | | |
| Volume Used (mL): | 0.10 | | |
| Alliquot Volume (L, g, F): | 0.503 | | |
| Target Conc. (pCi/L, g, F): | 4.779 | | |
| Uncertainty (Calculated): | 0.057 | | |
| Result (pCi/L, g, F): | 5.033 | | |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.911 | | |
| Numerical Performance Indicator: | 105.33% | | |
| Percent Recovery: | 0.55 | | |
| Status vs Numerical Indicator: | Pass | | |
| Status vs Recovery: | N/A | | |
| Upper % Recovery Limits: | 125% | | |
| Lower % Recovery Limits: | 75% | | |

| Sample Matrix Spike Control Assessment | | MS/MSD 1 | MS/MSD 2 |
|--|--|----------|----------|
| Sample Collection Date: | | | |
| Sample I.D.: | | | |
| Sample MS I.D.: | | | |
| Sample MSD I.D.: | | | |
| Spike I.D.: | | | |
| MS/MSD Decay Corrected Spike Concentration (pCi/mL): | | | |
| Spike Volume Used in MS (mL): | | | |
| Spike Volume Used in MSD (mL): | | | |
| MS Alliquot (L, g, F): | | | |
| MS Target Conc. (pCi/L, g, F): | | | |
| MSD Alliquot (L, g, F): | | | |
| MSD Target Conc. (pCi/L, g, F): | | | |
| MS Spike Uncertainty (Calculated): | | | |
| MSD Spike Uncertainty (Calculated): | | | |
| Sample Result: | | | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | | | |
| Sample Matrix Spike Result: | | | |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | | | |
| Sample Matrix Spike Duplicate Result: | | | |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | | | |
| MS Numerical Performance Indicator: | | | |
| MSD Numerical Performance Indicator: | | | |
| MS Percent Recovery: | | | |
| MSD Percent Recovery: | | | |
| MS Status vs Numerical Indicator: | | | |
| MSD Status vs Numerical Indicator: | | | |
| MS Status vs Recovery: | | | |
| MSD Status vs Recovery: | | | |
| MS/MSD Upper % Recovery Limits: | | | |
| MS/MSD Lower % Recovery Limits: | | | |

| Duplicate Sample Assessment | | LCS75040 | 92681880014 |
|--|-----------|----------|-------------|
| Sample I.D.: | LCS75040 | | |
| Duplicate Sample I.D.: | LCS075040 | | |
| Sample Result (pCi/L, g, F): | 5.033 | | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 0.911 | | |
| Sample Duplicate Result (pCi/L, g, F): | 5.858 | | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 1.031 | | |
| Are sample and/or duplicate results below RL? | NO | | |
| Duplicate Numerical Performance Indicator: | -1.175 | | |
| Duplicate Percent Recoveries) Duplicate RPD: | 15.30% | | |
| Duplicate Status vs Numerical Indicator: | Pass | | |
| Duplicate Status vs RPD: | N/A | | |
| % RPD Limit: | 25% | | |

| Matrix Spike/Matrix Spike Duplicate Sample Assessment | | MS/MSD 1 | MS/MSD 2 |
|--|--|----------|----------|
| Sample I.D.: | | | |
| Sample MS I.D.: | | | |
| Sample MSD I.D.: | | | |
| Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | | | |
| Sample Matrix Spike Result: | | | |
| Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | | | |
| Duplicate Numerical Performance Indicator: | | | |
| Duplicate Percent Recoveries) MS/MSD Duplicate RPD: | | | |
| MS/MSD Duplicate Status vs Numerical Indicator: | | | |
| MS/MSD Duplicate Status vs RPD: | | | |
| % RPD Limit: | | | |

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

M 9/8/23

W 9/18/23

VALIDATION REPORTS

January 2023

Memorandum

Date: May 24, 2023
To: Whitney Law
From: Amani Royce
CC: K. Henderson
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 92648446**

SITE: Plant Hammond AP-1/ AP-2/ AP-3 (Pooled Upgradient)

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of five aqueous samples, collected 23 and 24 January 2023, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services Atlanta, Peachtree Corners, Georgia, for the following analytical tests:

- Calcium by United States Environmental Protection Agency (US EPA) Methods 3010A/6010D
- Metals by USEPA Methods 3005A/6020B
- Mercury by USEPA Method 7470A
- Total Dissolved Solids (TDS) by Standard Method 2540C

The samples were analyzed at Pace Analytical Services Asheville, North Carolina, for the following analytical test:

- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data are usable for supporting project objectives.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);

- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006); and
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

| Laboratory ID | Client ID |
|---------------|--------------|
| 92648446001 | HAM-HGWA-3 |
| 92648446002 | HAM-HGWA-2 |
| 92648446003 | HAM-HGWA-43D |

| Laboratory ID | Client ID |
|---------------|--------------|
| 92648446004 | HAM-HGWA-44D |
| 92648446005 | HAM-HGWA-1 |

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The sample collection time was not listed on the chain of custody (COC) for sample HAM-HGWA-1. The laboratory assigned collection times of 9:35.

The laboratory report revised on 5 May 2023 was used for data validation.

The results flagged as “ND” in the electronic data deliverable (EDD) were changed to U.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by USEPA methods 3010A/6010D and USEPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate

- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported (batches 752651, 752956, 752599, and 753097). Metals were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples).

One sample set specific MS/MSD pair was reported for calcium by US EPA method, using sample HAM-HGWA-3. The relative percent difference (RPD) result was within the laboratory specified acceptance criteria, and the recoveries of calcium in the MS/MSD pair using sample HAM-HGWA-3 were low and outside of the laboratory specified acceptance criteria. Since the calcium concentration in sample HAM-HGWA-3 was greater than four times the spike concentration, no qualifications were applied to the data.

One batch MS/MSD pair was reported for calcium. Since this was batch QC, the result does not affect the samples in this data set and qualifications were not applied to the data.

One sample set specific MS/MSD pair was reported for metals by US EPA method 6020B, using sample HAM-HGWA-3. The recovery and RPD results were within the laboratory specified acceptance criteria.

One batch MS/MSD pair was reported for metals by US EPA method 6020B. Since this was batch QC, the result does not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

An equipment blank was not collected with the sample set.

1.7 Field Blank

A field blank was not collected with the sample set.

1.8 Field Duplicate

A field duplicate sample was not collected with the sample set.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by USEPA method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time

- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 **Overall Assessment**

The mercury data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 **Holding Time**

The holding time for mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 **Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 752854). Mercury was not detected in the method blank above the MDL.

2.4 **Matrix Spike/Matrix Spike Duplicate**

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples).

One batch MS/MSD pair was reported. Since this was batch QC, the result does not affect the samples in this data set and qualifications were not applied to the data.

2.5 **Laboratory Control Sample**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

2.6 Equipment Blank

An equipment blank was not collected with the sample set.

2.7 Field Blank

A field blank was not collected with the sample set.

2.8 Field Duplicate

A field duplicate sample was not collected with the sample set.

2.9 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

2.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 WET CHEMISTRY

The samples were analyzed for TDS by Standard method 2540C and anions by USEPA method 300.0.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 100%.

3.2 Holding Times

The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding time for the anions (chloride, fluoride, and sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for TDS (batch 752254) and three method blanks were reported for the anions (batches 751618, 752456, and 752690). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples).

Six batch MS/MSD pairs were reported for the anions. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported for TDS and three LCSs were reported for the anions. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Two batch laboratory duplicates were reported for TDS. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.7 Equipment Blank

An equipment blank was not collected with the sample set.

3.8 Field Blank

A field blank was not collected with the sample set.

3.9 Field Duplicate

A field duplicate sample was not collected with the sample set.

3.10 Sensitivity

The samples were reported to the MDLs for the anions and the reporting limit (RL) for TDS. No elevated non-detect results were reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

| Valid Value | Description |
|--------------------|--|
| 1 | Preservation requirement not met |
| 2 | Analysis holding time exceeded |
| 3 | Blank contamination (i.e., method, trip, equipment, etc.) |
| 4 | Matrix spike/matrix spike duplicate recovery or RPD outside limits |
| 5 | LCS or RPD recovery outside limits (LCS/LCSD) |
| 6 | Surrogate recovery outside limits |
| 7 | Field Duplicate RPD exceeded |
| 8 | Serial dilution percent difference exceeded |
| 9 | Calibration criteria not met |
| 10 | Linear range exceeded |
| 11 | Internal standard criteria not met |
| 12 | Lab duplicates RPD exceeded |
| 13 | Other |
| 14 | Lab flag removed or modified: no validation qualification required |

LCS - Laboratory Control Sample
 LCSD - Laboratory Control Sample duplicate
 RPD - Relative percent difference

Memorandum

Date: June 13, 2023
To: Whitney Law
From: Amani Royce
CC: K. Henderson
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 92648448**

SITE: Plant Hammond AP-1/ AP-2/ AP-3 (Pooled Upgradient RADS)

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of five aqueous samples, collected 23 and 24 January 2023, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services, LLC, Greensburg, Pennsylvania, for the following analytical tests:

- Radium-226 by United States (US) Environmental Protection Agency (EPA) Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Based on the Stage 2A data validation covering the quality control (QC) parameters listed below and the information provided, the data as qualified are usable for meeting project objectives.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006); and
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

| Laboratory ID | Client ID |
|---------------|--------------|
| 92648448001 | HAM-HGWA-3 |
| 92648448002 | HAM-HGWA-2 |
| 92648448003 | HAM-HGWA-43D |

| Laboratory ID | Client ID |
|---------------|--------------|
| 92648448004 | HAM-HGWA-44D |
| 92648448005 | HAM-HGWA-1 |

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The sample collection time was not listed on the COC for sample HAM-HGWA-1. The laboratory assigned collection time of 9:35.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for the radium-228 data (batch 567029). One method blank was reported for the radium-226 data (batch 567003). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair was reported for radium-226. One LCS was reported for radium-228. The recovery and replicate error ratio (RER) [1 sigma (1σ)] results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

One batch laboratory duplicate was reported for radium-226 and one batch laboratory duplicate was reported for radium-228. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Equipment Blank

An equipment blank was not collected with the sample set.

1.9 Field Blank

A field blank was not collected with the sample set.

1.10 Field Duplicate

A field duplicate was not collected with the sample set.

1.11 Sensitivity

The samples were reported to the MDCs. No elevated non-detect results were reported.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result.”
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

| Valid Value | Description |
|--------------------|--|
| 1 | Preservation requirement not met |
| 2 | Analysis holding time exceeded |
| 3 | Blank contamination (i.e., method, trip, equipment, etc.) |
| 4 | Matrix spike/matrix spike duplicate recovery or RPD outside limits |
| 5 | LCS or RPD recovery outside limits (LCS/LCSD) |
| 6 | Surrogate recovery outside limits |
| 7 | Field Duplicate RPD exceeded |
| 8 | Serial dilution percent difference exceeded |
| 9 | Calibration criteria not met |
| 10 | Linear range exceeded |
| 11 | Internal standard criteria not met |
| 12 | Lab duplicates RPD exceeded |
| 13 | Other |
| 14 | Lab flag removed or modified: no validation qualification required |

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: May 24, 2023
To: Whitney Law
From: Amani Royce
CC: K. Henderson
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 92649377**

SITE: Plant Hammond AP-1

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of eighteen aqueous samples, one field duplicate, one field blank, and one equipment blank, collected 26 and 27 January 2023 and 1 February 2023, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services Atlanta, Peachtree Corners, Georgia, for the following analytical tests:

- Calcium by United States Environmental Protection Agency (US EPA) Methods 3010A/6010D
- Metals by USEPA Methods 3005A/6020B
- Mercury by USEPA Method 7470A
- Total Dissolved Solids (TDS) by Standard Method 2540C

The samples were analyzed at Pace Analytical Services Asheville, North Carolina, for the following analytical test:

- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006); and
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

| Laboratory ID | Client ID |
|---------------|-------------|
| 92649377001 | HAM-HGWC-9 |
| 92649377002 | HAM-HGWC-11 |
| 92649377003 | HAM-HGWC-12 |
| 92649377004 | HAM-HGWC-13 |
| 92649377005 | HAM-MW-5 |
| 92649377006 | HAM-MW-6 |
| 92649377007 | HAM-MW-7 |
| 92649377008 | HAM-MW-19 |
| 92649377009 | HAM-MW-20 |
| 92649377010 | HAM-MW-24D |
| 92649377011 | HAM-MW-25D |

| Laboratory ID | Client ID |
|---------------|----------------|
| 92649377012 | HAM-MW-26D |
| 92649377013 | HAM-MW-28D |
| 92649377014 | HAM-MW-29 |
| 92649377015 | HAM-AP-1-FD-01 |
| 92649377016 | HAM-HGWC-7 |
| 92649377017 | HAM-HGWC-10 |
| 92649377018 | HAM-MW-27D |
| 92649377019 | HAM-HGWC-8 |
| 92649377020 | HAM-AP-1-EB-01 |
| 92649377021 | HAM-AP-1-FB-01 |

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The final receipt signature, affiliation, date, and time were not recorded on the chain of custody (COC) for the samples collected on 1 February 2023.

The laboratory report revised on 27 April 2023 was used for data validation.

The results flagged as “ND” in the EDD were changed to U.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by USEPA methods 3010A/6010D and USEPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ⊗ Field Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported (batches 762460, 755531, 753122, and 755827). Metals were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples).

One sample set specific MS/MSD pair was reported for calcium by US EPA method 6010D, using sample HAM-MW-19. The relative percent difference (RPD) result was within the laboratory specified acceptance criteria, and the recoveries of calcium in the MD/MSD pair using sample HAM-MW-19 were high and outside of the laboratory specified acceptance criteria. Since the

calcium concentration in sample HAM-MW-19 was greater than four times the spike concentration, no qualifications were applied to the data.

One batch MS/MSD pair was reported for calcium. Since this was a batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

Two batch MS/MSD pairs were reported for metals by US EPA method 6020B. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank was collected with the sample set, HAM-AP-1-EB-01. Metals were not detected in the equipment blank above the MDLs, with the following exception.

Boron was detected in the equipment blank at an estimated concentration greater than the MDL and less than the reporting limit (RL). Since the estimated boron concentration in the equipment blank was U qualified as not detected at the RL due to field blank contamination, and based on professional and technical judgment, no additional qualifications were applied to the data.

1.7 Field Blank

One field blank was collected with the sample set, HAM-AP-1-FB-01. Metals were not detected in the field blank above the MDLs, with the following exception.

Boron was detected in the field blank at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated boron concentrations in samples HAM-MW-7 and HAM-AP-1-EB-01 were U qualified as not detected at the RL. Since boron was detected at concentrations greater than the RL in the remaining associated samples, no additional qualifications were applied to the data.

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier* | Reason Code** |
|----------|---------|--------------------------|-----------------|--------------------------|-----------------------|---------------|
| HAM-MW-7 | Boron | 0.033 | J | 0.04 | U | 3 |

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier* | Reason Code** |
|----------------|---------|--------------------------|-----------------|--------------------------|-----------------------|---------------|
| HAM-AP-1-EB-01 | Boron | 0.022 | J | 0.04 | U | 3 |

mg/L-milligrams per liter

J- Estimated concentration greater than the MDL and less than the RL.

* Validation qualifiers are defined in Attachment 1 at the end of this report.

** Reason codes are defined in Attachment 2 at the end of this report.

1.8 Field Duplicate

One field duplicate sample was collected with the sample set, HAM-AP-1-FD-01. Acceptable precision ($RPD \leq 30\%$) was demonstrated between the field duplicate and the original sample, HAM-HGWC-11, with the following exception.

Chromium was detected at an estimated concentration greater than the MDL in sample HAM-HGWC-11 and not detected in field duplicate HAM-AP-1-FD-01, resulting in a noncalculable RPD between the results. Therefore, the estimated chromium concentration in sample HAM-HGWC-11 was J qualified as estimated, and the non-detect chromium result in field duplicate HAM-AP-1-FD-01 was UJ qualified as estimated less than the MDL.

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | RPD | Validation Result (mg/L) | Validation Qualifier | Reason Code |
|----------------|----------|--------------------------|-----------------|-----|--------------------------|----------------------|-------------|
| HAM-HGWC-11 | Chromium | 0.0012 | J | NC | 0.0012 | J | 7 |
| HAM-AP-1-FD-01 | Chromium | 0.0011 | U | | 0.0011 | UJ | 7 |

mg/L-milligrams per liter

NC-Non-calculable

U- Not detected at or above RL.

J- Estimated concentration greater than or equal to the MDL and less than the RL.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

1.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by USEPA method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

The mercury data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 754635 and 755636). Mercury was not detected in the method blanks above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported, using

samples HAM-HGWC-9 and HAM-MW-28D. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Equipment Blank

One equipment blank was collected with the sample set, HAM-AP-1-EB-01. Mercury was not detected in the equipment blank above the MDL.

2.7 Field Blank

One field blank was collected with the sample set, HAM-AP-1-FB-01. Mercury was not detected in the field blank above the MDL.

2.8 Field Duplicate

One field duplicate sample was collected with the sample set, HAM-AP-1-FD-01. Acceptable precision ($RPD \leq 30\%$) was demonstrated between the field duplicate and the original sample, HAM-HGWC-11.

2.9 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

2.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 WET CHEMISTRY

The samples were analyzed for TDS by Standard method 2540C and anions by USEPA method 300.0.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ⊗ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 100%.

3.2 Holding Times

The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding time for the anions (chloride, fluoride, and sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported for TDS (batches 752849, 753439, and 754118) and three method blanks were reported for the anions (batches 752813, 753396, and 754257). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported for anions, using sample HAM-MW-19. The recovery and RPD results were within the laboratory specified acceptance criteria.

Five batch MS/MSD pairs were reported for the anions. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported for TDS and three LCSs were reported for anions. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Three sample set specific laboratory duplicates were reported for TDS, using samples HAM-MW-7, HAM-HGWC-8, and HAM-HGWC-10. The RPD results were within the laboratory specified acceptance criteria.

Three batch laboratory duplicates were reported for TDS. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.7 Equipment Blank

One equipment blank was collected with the sample set, HAM-AP-1-EB-01. The wet chemistry parameters were not detected in the equipment blank above the MDLs.

3.8 Field Blank

One field blank was collected with the sample set, HAM-AP-1-FB-01. The wet chemistry parameters were not detected in the field blank above the MDLs, with the following exception.

TDS (28 mg/L) was detected in the field blank at a concentration greater than the RL. Therefore, the TDS concentration in samples HAM-MW-7, HAM-HGWC-10 and HAM-MW-27D were J+ qualified as estimated with high biases. Since TDS was either not detected or detected at concentrations 10x greater than the field blank contamination in the remaining samples, no additional qualifications were applied to the data.

| Sample ID | Compound | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier | Reason Code |
|-------------|----------|--------------------------|-----------------|--------------------------|----------------------|-------------|
| HAM-MW-7 | TDS | 89 | NA | 89 | J+ | 3 |
| HAM-HGWC-10 | TDS | 188 | NA | 188 | J+ | 3 |
| HAM-MW-27D | TDS | 255 | NA | 255 | J+ | 3 |

mg/L-milligrams per liter

NA-Not Applicable

3.9 Field Duplicate

One field duplicate sample was collected with the sample set, HAM-AP-1-FD-01. Acceptable precision ($RPD \leq 30\%$) was demonstrated between the field duplicate and the original sample, HAM-HGWC-11.

3.10 Sensitivity

The samples were reported to the MDLs for the anions and the RL for TDS. No elevated non-detect results were reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result.”
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected at or above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

| Valid Value | Description |
|--------------------|--|
| 1 | Preservation requirement not met |
| 2 | Analysis holding time exceeded |
| 3 | Blank contamination (i.e., method, trip, equipment, etc.) |
| 4 | Matrix spike/matrix spike duplicate recovery or RPD outside limits |
| 5 | LCS or RPD recovery outside limits (LCS/LCSD) |
| 6 | Surrogate recovery outside limits |
| 7 | Field Duplicate RPD exceeded |
| 8 | Serial dilution percent difference exceeded |
| 9 | Calibration criteria not met |
| 10 | Linear range exceeded |
| 11 | Internal standard criteria not met |
| 12 | Lab duplicates RPD exceeded |
| 13 | Other |
| 14 | Lab flag removed or modified: no validation qualification required |

LCS - Laboratory Control Sample
 LCSD - Laboratory Control Sample duplicate
 RPD - Relative percent difference

Memorandum

Date: June 1, 2023
To: Whitney Law
From: Amani Royce
CC: K. Henderson
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 92649924**

SITE: Plant Hammond AP-1 (RADS)

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of eighteen aqueous samples, one field duplicate, one field blank, and one equipment blank, collected 26 and 27 January 2023 and 1 February 2023, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services, LLC, Greensburg, Pennsylvania, for the following analytical tests:

- Radium-226 by United States (US) Environmental Protection Agency (EPA) Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Based on the Stage 2A data validation covering the quality control (QC) parameters listed below and the information provided, the data as qualified are usable for meeting project objectives.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006); and
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

| Laboratory ID | Client ID |
|---------------|-------------|
| 92649924001 | HAM-HGWC-9 |
| 92649924002 | HAM-HGWC-11 |
| 92649924003 | HAM-HGWC-12 |
| 92649924004 | HAM-HGWC-13 |
| 92649924005 | HAM-MW-5 |
| 92649924006 | HAM-MW-6 |
| 92649924007 | HAM-MW-7 |
| 92649924008 | HAM-MW-19 |
| 92649924009 | HAM-MW-20 |
| 92649924010 | HAM-MW-24D |
| 92649924011 | HAM-MW-25D |

| Laboratory ID | Client ID |
|---------------|----------------|
| 92649924012 | HAM-MW-26D |
| 92649924013 | HAM-MW-28D |
| 92649924014 | HAM-MW-29 |
| 92649924015 | HAM-AP-1-FD-01 |
| 92649924016 | HAM-HGWC-7 |
| 92649924017 | HAM-HGWC-10 |
| 92649924018 | HAM-MW-27D |
| 92649924019 | HAM-HGWC-8 |
| 92649924020 | HAM-AP-1-EB-01 |
| 92649924021 | HAM-AP-1-FB-01 |

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The final receipt signature, affiliation, date, and time were not recorded on the chain of custody (COC) for the samples collected on 1 February 2023.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported for the radium-228 data (batches 564182, 564276, and 565965). Three method blanks were reported for the radium-226 data (batches 564181, 564275, and 565964). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs).

1.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCS/LCS duplicate (LCSD) pairs were reported for radium-226. Three LCS/LCSD pairs were reported for radium-228. The recovery and replicate error ratio (RER) [1 sigma (1σ)] results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Two batch laboratory duplicates were reported for radium-226. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Equipment Blank

One equipment blank was collected with the sample set, HAM-AP-1-EB-01. Radium-226 and radium-228 were not detected in the equipment blank above the MDCs.

1.9 Field Blank

One field blank was collected with the sample set, HAM-AP-1-FB-01. Radium-226 and radium-228 were not detected in the field blank above the MDCs.

1.10 Field Duplicate

One field duplicate sample was collected with the sample set, HAM-AP-1-FD-01. Acceptable precision ($RER (1\sigma) < 3$) was demonstrated between the field duplicate and the original sample, HAM-HGWC-11.

1.11 Sensitivity

The samples were reported to the MDCs. No elevated non-detect results were reported.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected at or above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

| Valid Value | Description |
|--------------------|--|
| 1 | Preservation requirement not met |
| 2 | Analysis holding time exceeded |
| 3 | Blank contamination (i.e., method, trip, equipment, etc.) |
| 4 | Matrix spike/matrix spike duplicate recovery or RPD outside limits |
| 5 | LCS or RPD recovery outside limits (LCS/LCSD) |
| 6 | Surrogate recovery outside limits |
| 7 | Field Duplicate RPD exceeded |
| 8 | Serial dilution percent difference exceeded |
| 9 | Calibration criteria not met |
| 10 | Linear range exceeded |
| 11 | Internal standard criteria not met |
| 12 | Lab duplicates RPD exceeded |
| 13 | Other |
| 14 | Lab flag removed or modified: no validation qualification required |

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

August 2023

Memorandum

Date: 8 November 2023
To: Thomas Kessler
From: Derek Yeadon
CC: Kristoffer Henderson
Subject: **Hammond AP-1 - Stages 2A Validation - Level II Data Deliverable –
Pace Analytical Services, Project Numbers: 92682927 and 92681885**

SITE: Plant Hammond AP-1 and Pooled Upgradient

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twenty-three aqueous samples, one field duplicate, one field blank, and one equipment blank, collected 8 August and 10-12 August 2023, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services Atlanta, Peachtree Corners, Georgia, for the following analytical tests:

- Metals by United States Environmental Protection Agency (US EPA) Methods 3010A/6010D
- Metals by USEPA Methods 3005A/6020B
- Mercury by USEPA Method 7470A
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C

The samples were analyzed at Pace Analytical Services Asheville, North Carolina, for the following analytical test:

- Alkalinity by SM 400-S2D-2011
- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0
- Sulfide by SM 4500-S2D

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

Plant Hammond AP Site Data Validation

9 November 2023

Page 2

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006); and
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

| Laboratory ID | Client ID |
|---------------|---------------|
| 92681885001 | HAM-HGWA-1 |
| 92681885002 | HAM-HGWA-2 |
| 92681885003 | HAM-HGWA-3 |
| 92681885004 | HAM-HGWA-43D |
| 92681885005 | HAM-HGWA-44D |
| 92682398001 | HAM-HGWC-10 |
| 92682398002 | HAM-HGWC-11 |
| 92682398003 | HAM-HGWC-12 |
| 92682398004 | HAM-MW-5 |
| 92682398005 | HAM-MW-6 |
| 92682398006 | HAM-MW-7 |
| 92682398007 | HAM-MW-19 |
| 92682398008 | HAM-MW-20 |
| 92682398009 | HAM-MW-25D |
| 92682398010 | HAM-MW-29 |
| 92682397009 | HAM-HGWC-7 |
| 92682397010 | HAM-HGWC-8 |
| 92682397011 | HAM-HGWC-13 |
| 92682397012 | HAM-MW-24D |
| 92682397013 | HAM-MW-27D |
| 92682397014 | HAM-AP1-EB-01 |
| 92682397015 | HAM-AP1-FB-01 |
| 92682397016 | HAM-HGWC-9 |
| 92682397017 | HAM-MW-26D |
| 92682397018 | HAM-MW-28D |
| 92682927022 | HAM-AP1-FD-01 |

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

Sample HAM-AP1-FD-01 was not listed on the chain of custody (COC); sample was noted on Pace sample receipt form and logged in by the lab with a sampling time of 00:00.

The laboratory reports revised on 22 August and 3 October 2023 were used for data validation.

The results flagged as “ND” in the EDD were changed to U.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by USEPA methods 3010A/6010D and USEPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ⊗ Overall Assessment
- ✓ Holding Time
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

The laboratory noted the instrument cross check did not confirm the calcium concentration for sample HAM-MW-25D. Therefore, based on professional and technical judgment, the calcium concentration for sample MW-25D was J qualified as estimated.

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier* | Reason Code** |
|------------|---------|--------------------------|-----------------|--------------------------|-----------------------|---------------|
| HAM-MW-25D | Calcium | 86.1 | NA | 86.1 | J | 13 |

mg/L-milligrams per liter

NA-not applicable

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Ten method blanks were reported (batches 792418, 793883, 795463, 794002, 794177, 794178, 794885, 793618, 793869, and 794188). The metals were not detected in the method blanks at or above the method detection limit (MDL) with the following exceptions.

Potassium was detected in the method blank associated with batch 795463 above the MDL but below reporting limit (RL). Therefore, the potassium concentration was J+ qualified as estimated with high bias in sample HAM-AP1-FD-01.

Antimony (0.0043 mg/L) was detected in the method blank associated with batch 794002 at a concentration greater than the RL. Since antimony was not detected in the associated samples, no qualifications were applied to the data.

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier* | Reason Code** |
|---------------|-----------|--------------------------|-----------------|--------------------------|-----------------------|---------------|
| HAM-AP1-FD-01 | Potassium | 0.75 | B | 0.75 | J+ | 3 |

mg/L-milligrams per liter

B-Analyte was detected in the associated method blank.

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three sample set specific MS/MSD pairs were reported, using samples HAM-HGWC-11, HAM-MW-28D, and HAM-AP1-FD-01. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of calcium and magnesium in the MS/MSD pair using sample HAM-HGWC-11 were low and outside the laboratory specified acceptance criteria. Since the calcium and

magnesium concentrations in sample HAM-HGWC-11 were greater than four times the spiked amount, no qualifications were applied to the data.

The recoveries of calcium, magnesium, and sodium in the MS/MSD pair using sample HAM-AP1-FD-01 were low and outside the laboratory specified acceptance criteria. Since the calcium, magnesium, and sodium concentrations in sample HAM-AP1-FD-01 were greater than four times the spiked amount, no qualifications were applied to the data.

The recovery of barium in the MS/MSD pair using sample HAM-MW-28D was low and outside the laboratory specified acceptance criteria. Since the barium concentration in sample HAM-MW-28D was greater than four times the spiked amount, no qualifications were applied to the data.

Seven batch MS/MSD pairs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Twelve LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank was collected with the sample set, HAM-AP1-EB-01. Metals were not detected in the equipment blank above the MDLs. No qualifications were applied to the data.

1.7 Field Blank

One field blank was collected with the sample set, HAM-AP1-FB-01. Metals were not detected in the field blank above the MDLs. No additional qualifications were applied to the data.

1.8 Field Duplicate

One field duplicate sample was collected with the sample set, HAM-AP1-FD-01. Acceptable precision (RPD < 30%) was demonstrated between the field duplicate and the original sample, HAM-MW-24D.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

1.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the

associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by USEPA method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

The mercury data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 793520, 795034, and 795036). Mercury was not detected in the method blanks above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported, using samples HAM-HGWC-10 and HAM-MW-25D. The recovery and RPD results were within the

laboratory specified acceptance criteria with the following exceptions.

The recoveries of mercury in the MS/MSD pair using sample HAM-MW-25D were high and outside the laboratory specified acceptance criteria. Therefore, the estimated mercury concentration in sample HAM-MW-25D was J qualified as estimated with low bias.

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier | Reason Code |
|------------|---------|--------------------------|-----------------|--------------------------|----------------------|-------------|
| HAM-MW-25D | Mercury | 0.00013 | J M1 | 0.00013 | J | 4 |

mg/L-milligrams per liter

J- Estimated concentration greater than or equal to the MDL and less than the RL.

M1-Matrix spike recovery exceeded QC limits. Batch accepted based on LCS recovery.

One batch MS/MSD pair was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Equipment Blank

One equipment blank was collected with the sample set, HAM-AP1-EB-01. Mercury was not detected in the equipment blank above the MDL.

2.7 Field Blank

One field blank was collected with the sample set, HAM-AP1-FB-01. Mercury was not detected in the field blank above the MDL.

2.8 Field Duplicate

One field duplicate sample was collected with the sample set, HAM-AP1-FD-01. Acceptable precision (RPD < 30%) was demonstrated between the field duplicate and the original sample, HAM-MW-24D.

2.9 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

2.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No

discrepancies were identified between the level II report and the EDD.

3.0 WET CHEMISTRY

The samples were analyzed for TDS by Standard method 2540C, alkalinity by Standard method 2320B, TDS by Standard method 2540C, sulfides by Standard method 4500-S2D, and anions by USEPA method 300.0.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time and Preservation
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 100%.

3.2 Holding Time & Preservation

The holding times for the wet chemistry parameters are listed below.

| Analyte | Method | Holding Time |
|------------|-------------------|-------------------------------------|
| Anions | US EPA Method 300 | 28 days from collection to analysis |
| Alkalinity | SM 2320B | 14 days from collection to analysis |
| TDS | SM 2540C | 7 days from collection to analysis |
| Sulfide | SM 4500-S2D | 28 days from collection to analysis |

The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five method blanks were reported for TDS (batches 793055, 793414, 793918, 794085, and 794562), six method blanks were reported for alkalinity (batches 793564, 793596, 793988, 794234, 794235, and 794644), five method blanks were reported for sulfide (batches 793499, 793501, 794102, 794103, and 794424), and five method blanks were reported for anions (batches 793207, 793550, 793553, 793837, and 794487). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four sample set specific MS/MSD pairs were reported for alkalinity, using samples HAM-HGWA-3, HAM-HGWA-43D, HAM-MW-5, and HAM-MW-6. Four sample set specific MS/MSD pairs were reported for sulfide, using samples HAM-HGWA-44D, HAM-MW-19, HAM-MW-24D, HAM-AP1-FD-01. Four sample set specific MS/MSD pairs were reported for anions, using samples HAM-HGWA-44D, HAM-MW-25D, HAM-HGWC-9, HAM-HGWC-12 and HAM-HGWA-44D HAM-HGWC-12. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions:

The recovery of sulfide in the MSD and RPD for the MS/MSD pair using sample HAM-HGWA-44D were high and outside of the laboratory specified acceptance criteria. Therefore, the result for sulfide in sample HAM-HGWA-44D was J qualified as estimated.

The recoveries of chloride, fluoride, and sulfate in the MS/MSD pair using sample HAM-HGWC-9 were low and outside of the laboratory specified acceptance criteria. Therefore, the results for chloride, fluoride, and sulfate in sample HAM-HGWC-9 were J- qualified as estimated with low bias.

The recoveries of chloride and sulfate in the MS/MSD pair using sample HAM-HGWC-12 were low and outside of the laboratory specified acceptance criteria. Therefore, the results for sulfate in sample HAM-HGWC-12 was J- qualified as estimated with low bias. Since the chloride concentration in sample HAM-HGWC-12 was greater than four times the spiked amount, no qualifications were applied to the chloride results.

One or both the recoveries of chloride and fluoride in the MS/MSD pair using sample HAM-HGWA-44D were low and outside of the laboratory specified acceptance criteria. Therefore, the results for chloride and fluoride in sample HAM-HGWA-44D were J- qualified as estimated with low bias.

The recovery of alkalinity in the MSD using sample HAM-MW-5 was high and outside the laboratory specified acceptance criteria. Therefore, the total and bicarbonate alkalinity concentrations in sample HAM-MW-5 were J+ qualified as estimated with high bias.

The recovery of alkalinity in the MSD using sample HAM-MW-3 was high and outside the laboratory specified acceptance criteria. Since the alkalinity concentration in sample HAM-MW-3 was greater than four times the spiked amount, no qualifications were applied to the alkalinity results.

| Sample | Analyte | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier | Reason Code |
|--------------|--|--------------------------|-----------------|--------------------------|----------------------|-------------|
| HAM-HGWC-12 | Sulfate | 209 | NA | 209 | J- | 4 |
| HAM-MW-5 | Alkalinity, Bicarbonate (CaCO ₃) | 179 | NA | 179 | J+ | 4 |
| HAM-MW-5 | Alkalinity, Total as CaCO ₃ | 179 | M1 | 179 | J+ | 4 |
| HAM-HGWA-44D | Chloride | 27 | M1 | 27 | J- | 4 |
| HAM-HGWA-44D | Fluoride | 1.3 | M1 | 1.3 | J- | 4 |
| HAM-HGWA-44D | Sulfide | 0.14 | R1 M1 | 0.14 | J | 4 |

mg/L-milligrams per liter

R1-RPD value was outside control limits.

M1-Matrix spike recovery exceeded QC limits. Batch accepted based on LCS recovery.

NA-not applicable

Eight batch MS/MSD pairs were also reported for alkalinity. Six additional batch MS/MSD pairs were reported for sulfide. Six batch MS/MSD were also reported for anions. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five LCSs were reported for TDS, twelve LCSs were reported for alkalinity, four LCSs were reported for sulfide, and five LCSs were reported for anions. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Four sample set specific laboratory duplicates were reported for TDS, using samples HAM-HGWA-2, HAM-MW-6, and HAM-AP1-EB-01 were within the laboratory specified acceptance criteria.

Seven batch laboratory duplicates were reported for TDS. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.7 Equipment Blank

One equipment blank was collected with the sample set, HAM-API-EB-01. The wet chemistry parameters were not detected in the equipment blank above the MDLs.

3.8 Field Blank

One field blank was collected with the sample set, HAM-AP-1-FB-01. The wet chemistry parameters were not detected in the field blank above the MDLs.

3.9 Field Duplicate

One field duplicate sample was collected with the sample set, HAM-AP-1FD-01. Acceptable precision (RPD < 30%) was demonstrated between the field duplicate and the original sample, HAM-MW-24D.

3.10 Sensitivity

The samples were reported to the MDLs for the anions and the RL for TDS. No elevated non-detect results were reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result.”

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected at or above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

| Valid Value | Description |
|--------------------|--|
| 1 | Preservation requirement not met |
| 2 | Analysis holding time exceeded |
| 3 | Blank contamination (i.e., method, trip, equipment, etc.) |
| 4 | Matrix spike/matrix spike duplicate recovery or RPD outside limits |
| 5 | LCS or RPD recovery outside limits (LCS/LCSD) |
| 6 | Surrogate recovery outside limits |
| 7 | Field Duplicate RPD exceeded |
| 8 | Serial dilution percent difference exceeded |
| 9 | Calibration criteria not met |
| 10 | Linear range exceeded |
| 11 | Internal standard criteria not met |
| 12 | Lab duplicates RPD exceeded |
| 13 | Other |
| 14 | Lab flag removed or modified: no validation qualification required |

LCS - Laboratory Control Sample
 LCSD - Laboratory Control Sample duplicate
 RPD - Relative percent difference

Memorandum

Date: November 9, 2023
To: Christine Hug
From: Kristoffer Henderson
CC: Matthew Richardson
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Pace Analytical Services, LLC Project Numbers 92681881 and 92682401**

SITE: Plant Hammond AP-1 and Pooled Upgradient - RADS

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twenty-three aqueous samples, collected 8 and 10-12 August 2023, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services, LLC, Greensburg, Pennsylvania, for the following analytical tests:

- Radium-226 by United States (US) Environmental Protection Agency (EPA) Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006); and

- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

| Laboratory ID | Client ID |
|---------------|--------------|
| 92681881001 | HAM-HGWA-1 |
| 92681881002 | HAM-HGWA-2 |
| 92681881003 | HAM-HGWA-3 |
| 92681881004 | HAM-HGWA-43D |
| 92681881005 | HAM-HGWA-44D |
| 92682401001 | HAM-HGWC-10 |
| 92682401002 | HAM-HGWC-11 |
| 92682401003 | HAM-HGWC-12 |
| 92682401004 | HAM-MW-5 |
| 92682401005 | HAM-MW-6 |
| 92682401006 | HAM-MW-7 |
| 92682401007 | HAM-MW-19 |
| 92682401008 | HAM-MW-20 |

| Laboratory ID | Client ID |
|---------------|---------------|
| 92682401009 | HAM-MW-25D |
| 92682401010 | HAM-MW-29 |
| 92682401011 | HAM-HGWC-7 |
| 92682401012 | HAM-HGWC-8 |
| 92682401013 | HAM-HGWC-13 |
| 92682401014 | HAM-MW-24D |
| 92682401015 | HAM-MW-27D |
| 92682401016 | HAM-AP1-EB-01 |
| 92682401017 | HAM-AP1-FB-01 |
| 92682401018 | HAM-HGWC-9 |
| 92682401019 | HAM-MW-26D |
| 92682401020 | HAM-MW-28D |
| 92682401021 | HAM-AP1-FD-01 |

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ⊗ Overall Assessment
- ✓ Holding Times
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity

✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

Radium-226 was detected at concentrations greater than the minimum detectable concentration (MDC) in samples HAM-HGWC-9 and HAM-HGWA-43D; however, the combined radium 226+228 results for these samples were U flagged as less than the MDC. Based on professional and technical judgment, the U flags were removed for these samples.

| Sample | Analyte | Laboratory Result (pCi/L) | Laboratory Flag | Validation Result (pCi/L) | Validation Qualifier* | Reason Code* |
|--------------|---------------------------|---------------------------|-----------------|---------------------------|-----------------------|--------------|
| HAM-HGWA-43D | Combined Radium 226 + 228 | 0.503 | U | 0.503 | NA | 14 |
| HAM-HGWC-9 | Combined Radium 226 + 228 | 0.867 | U | 0.867 | NA | 14 |

pCi/L – picocuries per liter

U – not detected at or above the MDC

* Validation qualifiers are defined in Attachment 1 at the end of this report

** Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported for the radium-228 data (batches 610549, 610551, 611587 and 611586). Three method blanks were reported for the radium-226 data (batches 611645, 610646 and 612651). Radium-226 and radium-228 were not detected in the method blanks above the MDCs, with the following exception.

Radium-228 (0.453 pCi/L) was detected in the method blank in batch 610549 at a concentration greater than the MDC. Therefore, the radium-228 and combined radium 226+228 concentrations in sample HAM-MW-6 were J+ qualified as estimated with high bias.

Radium-228 (0.830 pCi/L) was detected in the method blank in batch 611586 at a concentration greater than the MDC. Since radium-228 was not detected at concentrations greater than the MDC in the associated samples, no qualifications were applied to the data.

| Sample | Analyte | Laboratory Result (pCi/L) | Laboratory Flag | Validation Result (pCi/L) | Validation Qualifier | Reason Code |
|----------|---------------------------|---------------------------|-----------------|---------------------------|----------------------|-------------|
| HAM-MW-6 | Radium-228 | 0.712 | NA | 0.712 | J+ | 3 |
| HAM-MW-6 | Combined Radium 226 + 228 | 0.839 | U | 0.839 | J+ | 3 |

pCi/L – picocuries per liter

U – not detected at or above the MDC

NA – not applicable

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair was reported for radium-226. One LCS was reported for radium-228. The recovery and replicate error ratio (RER) [1 sigma (1σ)] results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported using sample HAM-HGWA-43D. The RER result was within the laboratory specified acceptance criteria.

Two batch laboratory duplicates were reported for radium-226. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Equipment Blank

One equipment blank was collected with the sample set, HAM-AP1-EB-01. Radium-226 and radium-228 were not detected in the equipment blank above the MDCs.

1.9 Field Blank

One field blank was collected with the sample set, HAM-AP1-FB-01. Radium-226 and radium-228 were not detected in the field blank above the MDCs.

1.10 Field Duplicate

One field duplicate sample was collected with the sample set, HAM-AP1-FD-01. Acceptable precision ($RER (1\sigma) < 3$) was demonstrated between the field duplicate and the original sample, HAM-HGWC-13.

1.11 Sensitivity

The samples were reported to the MDCs. No elevated non-detect results were reported.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result.”
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

| Valid Value | Description |
|--------------------|--|
| 1 | Preservation requirement not met |
| 2 | Analysis holding time exceeded |
| 3 | Blank contamination (i.e., method, trip, equipment, etc.) |
| 4 | Matrix spike/matrix spike duplicate recovery or RPD outside limits |
| 5 | LCS or RPD recovery outside limits (LCS/LCSD) |
| 6 | Surrogate recovery outside limits |
| 7 | Field Duplicate RPD exceeded |
| 8 | Serial dilution percent difference exceeded |
| 9 | Calibration criteria not met |
| 10 | Linear range exceeded |
| 11 | Internal standard criteria not met |
| 12 | Lab duplicates RPD exceeded |
| 13 | Other |
| 14 | Lab flag removed or modified: no validation qualification required |

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

FIELD SAMPLING REPORTS

January 2023

Low-Flow Test Report:

Test Date / Time: 1/24/2023 9:00:17 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

| | | |
|---|--|--|
| Location Name: HGWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 22.49 ft Total Depth: 32.49 ft Initial Depth to Water: 10.05 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 27.49 ft Estimated Total Volume Pumped: 4 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.63 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883533 |
|---|--|--|

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Sunny, 30 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 1/24/2023 9:00 AM | 00:00 | 6.90 pH | 13.36 °C | 707.06 µS/cm | 1.45 mg/L | 1.50 NTU | -14.6 mV | 10.55 ft | 200.00 ml/min |
| 1/24/2023 9:05 AM | 05:00 | 6.76 pH | 15.30 °C | 684.25 µS/cm | 0.82 mg/L | 1.12 NTU | -38.1 mV | 10.68 ft | 200.00 ml/min |
| 1/24/2023 9:10 AM | 10:00 | 6.74 pH | 15.59 °C | 674.83 µS/cm | 0.40 mg/L | 0.85 NTU | -53.2 mV | 10.69 ft | 200.00 ml/min |
| 1/24/2023 9:15 AM | 15:00 | 6.75 pH | 15.71 °C | 670.89 µS/cm | 0.17 mg/L | 0.70 NTU | -62.5 mV | 10.65 ft | 200.00 ml/min |
| 1/24/2023 9:20 AM | 20:00 | 6.76 pH | 15.84 °C | 667.23 µS/cm | 0.10 mg/L | 0.57 NTU | -69.0 mV | 10.67 ft | 200.00 ml/min |
| 1/24/2023 9:25 AM | 25:00 | 6.75 pH | 15.88 °C | 664.63 µS/cm | 0.07 mg/L | 0.48 NTU | -73.7 mV | 10.68 ft | 200.00 ml/min |
| 1/24/2023 9:30 AM | 30:00 | 6.76 pH | 15.98 °C | 661.32 µS/cm | 0.06 mg/L | 0.84 NTU | -76.5 mV | 10.68 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-HGWA-1 | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/24/2023 8:50:01 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

| | | |
|--|--|--|
| Location Name: HGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.95 ft Total Depth: 27.95 ft Initial Depth to Water: 7.96 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 22.95 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 8.05 ft | Instrument Used: Aqua TROLL 400 Serial Number: 966090 |
|--|--|--|

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Sunny 28 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 5 | |
| 1/24/2023 8:50 AM | 00:00 | 5.37 pH | 15.92 °C | 216.37 µS/cm | 1.95 mg/L | 74.60 NTU | 164.4 mV | 8.05 ft | 200.00 ml/min |
| 1/24/2023 8:55 AM | 05:00 | 5.30 pH | 16.05 °C | 221.01 µS/cm | 0.58 mg/L | 16.40 NTU | 133.9 mV | 8.05 ft | 200.00 ml/min |
| 1/24/2023 9:00 AM | 10:00 | 5.29 pH | 16.10 °C | 222.99 µS/cm | 0.41 mg/L | 9.97 NTU | 119.9 mV | 8.05 ft | 200.00 ml/min |
| 1/24/2023 9:05 AM | 15:00 | 5.27 pH | 16.19 °C | 221.63 µS/cm | 0.36 mg/L | 6.72 NTU | 109.2 mV | 8.05 ft | 200.00 ml/min |
| 1/24/2023 9:10 AM | 20:00 | 5.25 pH | 16.19 °C | 220.30 µS/cm | 0.48 mg/L | 5.21 NTU | 101.6 mV | 8.05 ft | 200.00 ml/min |
| 1/24/2023 9:15 AM | 25:00 | 5.24 pH | 16.28 °C | 219.03 µS/cm | 0.59 mg/L | 4.43 NTU | 95.7 mV | 8.05 ft | 200.00 ml/min |
| 1/24/2023 9:20 AM | 30:00 | 5.20 pH | 16.36 °C | 221.26 µS/cm | 0.29 mg/L | 3.35 NTU | 93.3 mV | 8.05 ft | 200.00 ml/min |
| 1/24/2023 9:25 AM | 35:00 | 5.22 pH | 16.37 °C | 221.85 µS/cm | 0.28 mg/L | 2.68 NTU | 87.9 mV | 8.05 ft | 200.00 ml/min |
| 1/24/2023 9:30 AM | 40:00 | 5.22 pH | 16.38 °C | 221.37 µS/cm | 0.41 mg/L | 2.49 NTU | 86.4 mV | 8.05 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-HGWA-1 | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/23/2023 4:14:39 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

| | | |
|--|---|--|
| Location Name: HGWA-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 34.51 ft Total Depth: 44.51 ft Initial Depth to Water: 7.53 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 39.51 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 400 Serial Number: 966090 |
|--|---|--|

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 5 | |
| 1/23/2023 4:14 PM | 00:00 | 7.24 pH | 15.85 °C | 463.88 µS/cm | 2.68 mg/L | 7.83 NTU | -31.1 mV | 7.53 ft | 200.00 ml/min |
| 1/23/2023 4:19 PM | 05:00 | 7.31 pH | 16.42 °C | 459.57 µS/cm | 0.98 mg/L | 7.64 NTU | -49.6 mV | 7.53 ft | 200.00 ml/min |
| 1/23/2023 4:24 PM | 10:00 | 7.32 pH | 16.54 °C | 459.25 µS/cm | 0.65 mg/L | 4.84 NTU | -82.6 mV | 7.53 ft | 200.00 ml/min |
| 1/23/2023 4:29 PM | 15:00 | 7.32 pH | 16.55 °C | 459.71 µS/cm | 0.38 mg/L | 3.16 NTU | -88.0 mV | 7.53 ft | 200.00 ml/min |
| 1/23/2023 4:34 PM | 20:00 | 7.33 pH | 16.67 °C | 458.35 µS/cm | 0.28 mg/L | 2.46 NTU | -89.3 mV | 7.53 ft | 200.00 ml/min |
| 1/23/2023 4:39 PM | 25:00 | 7.34 pH | 16.59 °C | 457.27 µS/cm | 0.23 mg/L | 2.48 NTU | -58.6 mV | 7.53 ft | 200.00 ml/min |
| 1/23/2023 4:44 PM | 30:00 | 7.32 pH | 16.58 °C | 457.27 µS/cm | 0.20 mg/L | 1.02 NTU | -87.8 mV | 7.53 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-HGWA-3 | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/24/2023 10:20:06 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

| | | |
|---|---|--|
| Location Name: HGWA-43D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51.25 ft Total Depth: 61.25 ft Initial Depth to Water: 10.02 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 22.95 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 13.52 ft | Instrument Used: Aqua TROLL 400 Serial Number: 966090 |
|---|---|--|

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Sunny, 35 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 5 | |
| 1/24/2023 10:20 AM | 00:00 | 7.50 pH | 15.38 °C | 453.99 µS/cm | 1.76 mg/L | 4.94 NTU | -100.1 mV | 10.89 cm | 200.00 ml/min |
| 1/24/2023 10:25 AM | 05:00 | 7.56 pH | 16.19 °C | 451.81 µS/cm | 0.95 mg/L | 8.69 NTU | -115.8 mV | 11.73 ft | 200.00 ml/min |
| 1/24/2023 10:30 AM | 10:00 | 7.58 pH | 16.37 °C | 450.15 µS/cm | 0.92 mg/L | 6.38 NTU | -114.4 mV | 12.50 ft | 200.00 ml/min |
| 1/24/2023 10:35 AM | 15:00 | 7.58 pH | 16.41 °C | 451.67 µS/cm | 0.67 mg/L | 5.04 NTU | -118.5 mV | 12.97 ft | 200.00 ml/min |
| 1/24/2023 10:40 AM | 20:00 | 7.57 pH | 16.43 °C | 442.00 µS/cm | 0.61 mg/L | 4.93 NTU | -115.4 mV | 13.27 ft | 200.00 ml/min |
| 1/24/2023 10:45 AM | 25:00 | 7.55 pH | 16.59 °C | 441.08 µS/cm | 0.57 mg/L | 4.49 NTU | -112.1 mV | 13.43 ft | 200.00 ml/min |
| 1/24/2023 10:50 AM | 30:00 | 7.56 pH | 16.46 °C | 437.56 µS/cm | 0.67 mg/L | 3.92 NTU | -111.9 mV | 13.52 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|--------------|--------------|
| HAM-HGWA-43D | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/24/2023 9:23:00 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|---|---|--|
| Location Name: HGWA-44D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 103.5 ft Total Depth: 113.5 ft Initial Depth to Water: 10.72 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 103.5 ft Estimated Total Volume Pumped: 10 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 4.03 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|---|---|--|

Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Foggy, 30 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 5 | |
| 1/24/2023 9:23 AM | 00:00 | 8.16 pH | 12.41 °C | 55.30 µS/cm | 1.94 mg/L | 67.00 NTU | 11.8 mV | 10.95 ft | 200.00 ml/min |
| 1/24/2023 9:28 AM | 05:00 | 8.20 pH | 12.90 °C | 54.41 µS/cm | 1.25 mg/L | 71.00 NTU | -37.5 mV | 11.30 ft | 200.00 ml/min |
| 1/24/2023 9:33 AM | 10:00 | 8.20 pH | 12.94 °C | 54.45 µS/cm | 0.99 mg/L | 12.80 NTU | -61.7 mV | 11.70 ft | 200.00 ml/min |
| 1/24/2023 9:38 AM | 15:00 | 8.21 pH | 12.98 °C | 54.49 µS/cm | 0.89 mg/L | 12.70 NTU | -75.1 mV | 12.00 ft | 200.00 ml/min |
| 1/24/2023 9:43 AM | 20:00 | 8.21 pH | 13.21 °C | 54.60 µS/cm | 0.76 mg/L | 26.50 NTU | -89.8 mV | 12.30 ft | 200.00 ml/min |
| 1/24/2023 9:48 AM | 25:00 | 8.21 pH | 13.58 °C | 54.65 µS/cm | 0.95 mg/L | 25.30 NTU | -118.5 mV | 12.60 ft | 200.00 ml/min |
| 1/24/2023 9:53 AM | 30:00 | 8.21 pH | 13.70 °C | 54.66 µS/cm | 0.81 mg/L | 31.20 NTU | -106.2 mV | 12.80 ft | 200.00 ml/min |
| 1/24/2023 9:58 AM | 35:00 | 8.20 pH | 14.46 °C | 55.60 µS/cm | 0.71 mg/L | 14.80 NTU | -131.2 mV | 12.95 ft | 200.00 ml/min |
| 1/24/2023 10:03 AM | 40:00 | 8.20 pH | 14.70 °C | 54.64 µS/cm | 0.79 mg/L | 16.80 NTU | -116.0 mV | 13.10 ft | 200.00 ml/min |
| 1/24/2023 10:08 AM | 45:00 | 8.20 pH | 14.98 °C | 54.61 µS/cm | 0.67 mg/L | 17.30 NTU | -118.3 mV | 13.30 ft | 200.00 ml/min |
| 1/24/2023 10:13 AM | 50:00 | 8.20 pH | 15.19 °C | 52.56 µS/cm | 0.64 mg/L | 16.30 NTU | -113.7 mV | 13.35 ft | 200.00 ml/min |
| 1/24/2023 10:18 AM | 55:00 | 8.21 pH | 15.29 °C | 54.53 µS/cm | 0.47 mg/L | 17.70 NTU | -121.9 mV | 13.42 ft | 200.00 ml/min |
| 1/24/2023 10:23 AM | 01:00:00 | 8.21 pH | 15.26 °C | 54.41 µS/cm | 0.60 mg/L | 14.20 NTU | -128.2 mV | 13.55 ft | 200.00 ml/min |

| | | | | | | | | | |
|-----------------------|----------|---------|----------|-------------|-----------|-----------|-----------|----------|---------------|
| 1/24/2023 10:28 AM | 01:05:00 | 8.21 pH | 15.33 °C | 54.56 µS/cm | 0.75 mg/L | 11.14 NTU | -133.1 mV | 14.70 ft | 200.00 ml/min |
| 1/24/2023 10:33 AM | 01:10:00 | 8.21 pH | 15.32 °C | 54.58 µS/cm | 0.49 mg/L | 14.75 NTU | -135.2 mV | 14.75 ft | 200.00 ml/min |
| 1/24/2023 10:38 AM | 01:15:00 | 8.21 pH | 15.41 °C | 54.48 µS/cm | 0.47 mg/L | 9.05 NTU | -137.7 mV | 14.75 ft | 200.00 ml/min |
| 1/24/2023 10:43 AM | 01:20:00 | 8.21 pH | 15.49 °C | 54.36 µS/cm | 0.35 mg/L | 8.27 NTU | -141.0 mV | 14.75 ft | 200.00 ml/min |
| 1/24/2023 10:48 AM | 01:25:00 | 8.21 pH | 15.36 °C | 54.54 µS/cm | 0.42 mg/L | 6.79 NTU | -141.9 mV | 14.75 ft | 200.00 ml/min |
| 1/24/2023 10:53 AM | 01:30:00 | 8.22 pH | 15.16 °C | 54.68 µS/cm | 0.29 mg/L | 4.41 NTU | -144.2 mV | 14.75 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|--------------|--------------|
| HAM-HGWA-44D | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/27/2023 12:05:23 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

| | | |
|--|--|--|
| Location Name: HGWC-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.96 ft Total Depth: 27.96 ft Initial Depth to Water: 6.63 cm | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 22.96 ft Estimated Total Volume Pumped: 13 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.09 ft | Instrument Used: Aqua TROLL 400 Serial Number: 966090 |
|--|--|--|

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Sunny, 40 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 5 | |
| 1/27/2023 12:05 PM | 00:00 | 7.22 pH | 17.66 °C | 712.83 µS/cm | 2.14 mg/L | 1.97 NTU | 48.3 mV | 6.70 ft | 200.00 ml/min |
| 1/27/2023 12:10 PM | 05:00 | 7.24 pH | 17.80 °C | 724.38 µS/cm | 0.84 mg/L | 3.17 NTU | 24.1 mV | 6.71 ft | 200.00 ml/min |
| 1/27/2023 12:15 PM | 10:00 | 7.24 pH | 17.83 °C | 727.05 µS/cm | 0.48 mg/L | 4.46 NTU | 19.7 mV | 6.72 ft | 200.00 ml/min |
| 1/27/2023 12:20 PM | 15:00 | 7.25 pH | 17.98 °C | 724.22 µS/cm | 0.53 mg/L | 6.13 NTU | 18.5 mV | 6.72 ft | 200.00 ml/min |
| 1/27/2023 12:25 PM | 20:00 | 7.25 pH | 18.06 °C | 723.13 µS/cm | 0.28 mg/L | 29.60 NTU | 17.7 mV | 6.72 ft | 200.00 ml/min |
| 1/27/2023 12:30 PM | 25:00 | 7.25 pH | 18.02 °C | 723.01 µS/cm | 0.27 mg/L | 24.50 NTU | 17.1 mV | 6.72 ft | 200.00 ml/min |
| 1/27/2023 12:35 PM | 30:00 | 7.25 pH | 18.17 °C | 722.86 µS/cm | 0.24 mg/L | 21.20 NTU | 16.7 mV | 6.72 ft | 200.00 ml/min |
| 1/27/2023 12:40 PM | 35:00 | 7.25 pH | 17.96 °C | 725.59 µS/cm | 0.29 mg/L | 16.00 NTU | 16.2 mV | 6.72 ft | 200.00 ml/min |
| 1/27/2023 12:45 PM | 40:00 | 7.26 pH | 18.20 °C | 724.06 µS/cm | 0.30 mg/L | 12.50 NTU | 15.9 mV | 6.72 ft | 200.00 ml/min |
| 1/27/2023 12:50 PM | 45:00 | 7.25 pH | 18.06 °C | 723.08 µS/cm | 0.27 mg/L | 8.60 NTU | 16.0 mV | 6.72 ft | 200.00 ml/min |
| 1/27/2023 12:55 PM | 50:00 | 7.25 pH | 18.11 °C | 724.05 µS/cm | 0.45 mg/L | 5.92 NTU | 15.6 mV | 6.72 ft | 200.00 ml/min |
| 1/27/2023 1:00 PM | 55:00 | 7.25 pH | 18.20 °C | 721.69 µS/cm | 0.24 mg/L | 4.80 NTU | 15.3 mV | 6.72 ft | 200.00 ml/min |
| 1/27/2023 1:05 PM | 01:00:00 | 7.25 pH | 18.22 °C | 717.35 µS/cm | 0.30 mg/L | 3.73 NTU | 15.3 mV | 6.72 ft | 200.00 ml/min |

| | | | | | | | | | |
|----------------------|----------|---------|----------|--------------|-----------|----------|---------|---------|---------------|
| 1/27/2023 1:10 PM | 01:05:00 | 7.25 pH | 18.22 °C | 713.98 µS/cm | 0.23 mg/L | 3.44 NTU | 15.3 mV | 6.72 ft | 200.00 ml/min |
|----------------------|----------|---------|----------|--------------|-----------|----------|---------|---------|---------------|

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-HGWC-7 | Grab. |

Low-Flow Test Report:

Test Date / Time: 2/1/2023 9:27:41 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

| | | |
|--|--|--|
| Location Name: HGWC-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 15.51 ft Total Depth: 25.51 ft Initial Depth to Water: 7.75 ft | Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 20.5 ft Estimated Total Volume Pumped: 8.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.09 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883533 |
|--|--|--|

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Cloudy, 45 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 2/1/2023 9:27 AM | 00:00 | 6.45 pH | 15.26 °C | 847.28 µS/cm | 0.24 mg/L | 11.70 NTU | 95.3 mV | 7.80 ft | 250.00 ml/min |
| 2/1/2023 9:32 AM | 05:00 | 6.56 pH | 15.84 °C | 824.33 µS/cm | 0.19 mg/L | 3.30 NTU | 74.0 mV | 7.81 ft | 250.00 ml/min |
| 2/1/2023 9:37 AM | 10:00 | 6.56 pH | 15.89 °C | 824.15 µS/cm | 0.16 mg/L | 2.57 NTU | 90.4 mV | 7.82 ft | 250.00 ml/min |
| 2/1/2023 9:42 AM | 15:00 | 6.59 pH | 15.93 °C | 825.66 µS/cm | 0.16 mg/L | 1.53 NTU | 88.4 mV | 7.83 ft | 250.00 ml/min |
| 2/1/2023 9:47 AM | 20:00 | 6.59 pH | 16.00 °C | 826.65 µS/cm | 0.14 mg/L | 1.50 NTU | 87.5 mV | 7.84 ft | 250.00 ml/min |
| 2/1/2023 9:52 AM | 25:00 | 6.60 pH | 15.98 °C | 828.29 µS/cm | 0.21 mg/L | 1.41 NTU | 86.6 mV | 7.83 ft | 250.00 ml/min |
| 2/1/2023 9:57 AM | 30:00 | 6.60 pH | 16.16 °C | 826.94 µS/cm | 0.21 mg/L | 1.30 NTU | 85.9 mV | 7.84 ft | 250.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-HGWC-8 | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/26/2023 2:49:08 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

| | | |
|--|--|--|
| Location Name: HGWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 36.97 ft Total Depth: 46.97 ft Initial Depth to Water: 12.4 ft | Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 41.97 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.03 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883533 |
|--|--|--|

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Cloudy and windy, 45 deg F.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 1/26/2023 2:49 PM | 00:00 | 6.96 pH | 16.47 °C | 1,017.7 µS/cm | 0.20 mg/L | 1.04 NTU | 27.1 mV | 12.42 ft | 200.00 ml/min |
| 1/26/2023 2:54 PM | 05:00 | 7.02 pH | 16.53 °C | 1,015.8 µS/cm | 0.13 mg/L | 1.52 NTU | 27.1 mV | 12.42 ft | 200.00 ml/min |
| 1/26/2023 2:59 PM | 10:00 | 7.04 pH | 16.44 °C | 1,020.9 µS/cm | 0.10 mg/L | 1.56 NTU | 25.0 mV | 12.43 ft | 200.00 ml/min |
| 1/26/2023 3:04 PM | 15:00 | 7.06 pH | 16.47 °C | 1,022.0 µS/cm | 0.08 mg/L | 1.70 NTU | 23.9 mV | 12.43 ft | 200.00 ml/min |
| 1/26/2023 3:09 PM | 20:00 | 7.06 pH | 16.52 °C | 1,019.4 µS/cm | 0.07 mg/L | 2.12 NTU | 23.4 mV | 12.43 ft | 200.00 ml/min |
| 1/26/2023 3:14 PM | 25:00 | 7.07 pH | 16.56 °C | 1,019.8 µS/cm | 0.06 mg/L | 1.32 NTU | 23.1 mV | 12.42 ft | 200.00 ml/min |
| 1/26/2023 3:19 PM | 30:00 | 7.07 pH | 17.10 °C | 1,016.6 µS/cm | 0.05 mg/L | 1.45 NTU | 22.7 mV | 12.43 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HGWC-9 | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/27/2023 2:26:28 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

| | | |
|---|---|--|
| Location Name: HGWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 12.94 ft Total Depth: 22.94 ft Initial Depth to Water: 9.93 cm | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 22.94 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.04 ft | Instrument Used: Aqua TROLL 400 Serial Number: 966090 |
|---|---|--|

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 5 | |
| 1/27/2023 2:26 PM | 00:00 | 6.88 pH | 16.23 °C | 269.31 µS/cm | 5.42 mg/L | 2.43 NTU | 57.9 mV | 9.96 cm | 200.00 ml/min |
| 1/27/2023 2:31 PM | 05:00 | 6.90 pH | 15.77 °C | 313.01 µS/cm | 5.16 mg/L | 1.40 NTU | 37.3 mV | 9.96 cm | 200.00 ml/min |
| 1/27/2023 2:36 PM | 10:00 | 6.91 pH | 15.83 °C | 311.34 µS/cm | 5.18 mg/L | 1.23 NTU | 55.7 mV | 9.97 cm | 200.00 ml/min |
| 1/27/2023 2:41 PM | 15:00 | 6.89 pH | 15.88 °C | 315.65 µS/cm | 5.14 mg/L | 1.41 NTU | 55.2 mV | 9.97 cm | 200.00 ml/min |
| 1/27/2023 2:46 PM | 20:00 | 6.90 pH | 16.06 °C | 312.98 µS/cm | 5.10 mg/L | 1.36 NTU | 54.3 mV | 9.97 cm | 200.00 ml/min |
| 1/27/2023 2:51 PM | 25:00 | 6.90 pH | 16.07 °C | 314.46 µS/cm | 5.05 mg/L | 1.29 NTU | 53.8 mV | 9.97 cm | 200.00 ml/min |
| 1/27/2023 2:56 PM | 30:00 | 6.89 pH | 15.95 °C | 317.10 µS/cm | 5.05 mg/L | 1.09 NTU | 34.0 mV | 9.97 cm | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|-------------|--------------|
| HAM-HGWC-10 | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/26/2023 1:37:13 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

| | | |
|--|---|--|
| Location Name: HGWC-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 15.78 ft Total Depth: 25.78 ft Initial Depth to Water: 13.57 cm | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 20.57 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.03 ft | Instrument Used: Aqua TROLL 400 Serial Number: 966090 |
|--|---|--|

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Cloudy, 46 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 5 | |
| 1/26/2023 1:37 PM | 00:00 | 6.18 pH | 15.76 °C | 674.05 µS/cm | 1.36 mg/L | 1.06 NTU | 74.9 mV | 13.60 ft | 200.00 ml/min |
| 1/26/2023 1:42 PM | 05:00 | 6.20 pH | 15.92 °C | 661.24 µS/cm | 1.23 mg/L | 0.91 NTU | 46.8 mV | 13.60 ft | 200.00 ml/min |
| 1/26/2023 1:47 PM | 10:00 | 6.20 pH | 16.56 °C | 663.20 µS/cm | 1.11 mg/L | 0.57 NTU | 59.5 mV | 13.60 cm | 200.00 ml/min |
| 1/26/2023 1:52 PM | 15:00 | 6.20 pH | 16.53 °C | 665.73 µS/cm | 1.35 mg/L | 0.48 NTU | 57.3 mV | 13.60 ft | 200.00 ml/min |
| 1/26/2023 1:57 PM | 20:00 | 6.21 pH | 16.42 °C | 664.26 µS/cm | 1.14 mg/L | 0.28 NTU | 37.2 mV | 13.60 ft | 200.00 ml/min |
| 1/26/2023 2:02 PM | 25:00 | 6.21 pH | 16.32 °C | 669.84 µS/cm | 1.16 mg/L | 0.38 NTU | 34.6 mV | 13.60 ft | 200.00 ml/min |
| 1/26/2023 2:07 PM | 30:00 | 6.22 pH | 16.28 °C | 635.97 µS/cm | 1.28 mg/L | 0.54 NTU | 33.2 mV | 13.60 ft | 200.00 ml/min |
| 1/26/2023 2:12 PM | 35:00 | 6.22 pH | 16.31 °C | 671.45 µS/cm | 1.23 mg/L | 0.18 NTU | 32.0 mV | 13.60 ft | 200.00 ml/min |
| 1/26/2023 2:17 PM | 40:00 | 6.23 pH | 16.46 °C | 673.54 µS/cm | 1.34 mg/L | 0.24 NTU | 31.6 mV | 13.60 ft | 200.00 ml/min |
| 1/26/2023 2:22 PM | 45:00 | 6.23 pH | 16.28 °C | 668.22 µS/cm | 1.20 mg/L | 0.17 NTU | 43.7 mV | 13.60 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|----------------|--------------|
| HAM-HGWC-11 | Grab. |
| HAM-AP-1-FD-01 | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/26/2023 11:50:34 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

| | | |
|--|---|--|
| Location Name: HGWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 25.42 ft Total Depth: 35.42 ft Initial Depth to Water: 13.67 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 30.42 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 400 Serial Number: 966090 |
|--|---|--|

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Cloudy, 41 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 5 | |
| 1/26/2023 11:50 AM | 00:00 | 7.17 pH | 15.47 °C | 893.47 µS/cm | 3.56 mg/L | 12.40 NTU | 13.7 mV | 13.67 ft | 200.00 ml/min |
| 1/26/2023 11:55 AM | 05:00 | 7.09 pH | 16.33 °C | 903.45 µS/cm | 0.92 mg/L | 14.80 NTU | 10.5 mV | 13.67 ft | 200.00 ml/min |
| 1/26/2023 12:00 PM | 10:00 | 7.10 pH | 16.63 °C | 892.42 µS/cm | 0.91 mg/L | 12.30 NTU | 10.2 mV | 13.67 ft | 200.00 ml/min |
| 1/26/2023 12:05 PM | 15:00 | 7.10 pH | 16.58 °C | 908.14 µS/cm | 0.98 mg/L | 9.42 NTU | 10.3 mV | 13.67 ft | 200.00 ml/min |
| 1/26/2023 12:10 PM | 20:00 | 7.09 pH | 16.66 °C | 901.27 µS/cm | 0.61 mg/L | 7.50 NTU | 10.6 mV | 13.67 ft | 200.00 ml/min |
| 1/26/2023 12:15 PM | 25:00 | 7.09 pH | 16.90 °C | 922.52 µS/cm | 0.66 mg/L | 5.92 NTU | 10.2 mV | 13.67 ft | 200.00 ml/min |
| 1/26/2023 12:20 PM | 30:00 | 7.10 pH | 16.81 °C | 914.09 µS/cm | 0.74 mg/L | 4.07 NTU | 10.3 mV | 13.67 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|-------------|--------------|
| HAM-HGWC-12 | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/26/2023 12:45:35 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

| | | |
|--|--|--|
| Location Name: HGWC-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 35.15 ft Total Depth: 45.15 ft Initial Depth to Water: 24.21 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 40.15 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.04 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883533 |
|--|--|--|

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Cloudy, 42 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 1/26/2023 12:45 PM | 00:00 | 6.78 pH | 17.02 °C | 1,220.7 µS/cm | 0.75 mg/L | 26.40 NTU | -39.3 mV | 24.28 ft | 200.00 ml/min |
| 1/26/2023 12:50 PM | 05:00 | 6.81 pH | 17.02 °C | 1,225.0 µS/cm | 0.34 mg/L | 20.20 NTU | -52.3 mV | 24.28 ft | 200.00 ml/min |
| 1/26/2023 12:55 PM | 10:00 | 6.82 pH | 17.41 °C | 1,226.2 µS/cm | 0.23 mg/L | 14.50 NTU | -74.9 mV | 24.28 ft | 200.00 ml/min |
| 1/26/2023 1:00 PM | 15:00 | 6.84 pH | 17.38 °C | 1,224.3 µS/cm | 0.18 mg/L | 12.44 NTU | -69.4 mV | 24.25 ft | 200.00 ml/min |
| 1/26/2023 1:05 PM | 20:00 | 6.85 pH | 17.69 °C | 1,222.4 µS/cm | 0.16 mg/L | 9.86 NTU | -75.5 mV | 24.26 ft | 200.00 ml/min |
| 1/26/2023 1:10 PM | 25:00 | 6.86 pH | 17.89 °C | 1,217.0 µS/cm | 0.13 mg/L | 7.47 NTU | -92.6 mV | 24.25 ft | 200.00 ml/min |
| 1/26/2023 1:15 PM | 30:00 | 6.88 pH | 17.50 °C | 1,222.1 µS/cm | 0.12 mg/L | 5.80 NTU | -82.4 mV | 24.25 ft | 200.00 ml/min |
| 1/26/2023 1:20 PM | 35:00 | 6.89 pH | 17.63 °C | 1,222.2 µS/cm | 0.12 mg/L | 5.09 NTU | -84.3 mV | 24.25 ft | 200.00 ml/min |
| 1/26/2023 1:25 PM | 40:00 | 6.90 pH | 17.51 °C | 1,224.7 µS/cm | 0.11 mg/L | 4.07 NTU | -85.8 mV | 24.25 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|-------------|--------------|
| HAM-HGWC-13 | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/26/2023 10:18:51 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|---|---|--|
| Location Name: MW-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 20.84 ft Total Depth: 30.84 ft Initial Depth to Water: 14.54 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 25.84 ft Estimated Total Volume Pumped: 11 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.21 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|---|---|--|

Test Notes:

Five bottles; Full app. III and IV.

Weather Conditions:

Cloudy, 42 degrees

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 5 | |
| 1/26/2023 10:18 AM | 00:00 | 6.22 pH | 16.20 °C | 536.85 µS/cm | 4.72 mg/L | 0.90 NTU | 82.9 mV | 14.75 ft | 200.00 ml/min |
| 1/26/2023 10:23 AM | 05:00 | 6.13 pH | 16.47 °C | 532.08 µS/cm | 4.38 mg/L | 0.44 NTU | 116.8 mV | 14.75 ft | 200.00 ml/min |
| 1/26/2023 10:28 AM | 10:00 | 6.11 pH | 16.70 °C | 530.48 µS/cm | 4.28 mg/L | 0.46 NTU | 102.3 mV | 14.75 ft | 200.00 ml/min |
| 1/26/2023 10:33 AM | 15:00 | 6.11 pH | 16.74 °C | 531.33 µS/cm | 4.24 mg/L | 0.52 NTU | 104.4 mV | 14.75 ft | 200.00 ml/min |
| 1/26/2023 10:38 AM | 20:00 | 6.10 pH | 16.78 °C | 464.50 µS/cm | 4.26 mg/L | 0.39 NTU | 107.2 mV | 14.75 ft | 200.00 ml/min |
| 1/26/2023 10:43 AM | 25:00 | 6.10 pH | 16.52 °C | 528.34 µS/cm | 4.13 mg/L | 0.52 NTU | 108.3 mV | 14.75 ft | 200.00 ml/min |
| 1/26/2023 10:48 AM | 30:00 | 6.08 pH | 16.56 °C | 529.53 µS/cm | 4.09 mg/L | 0.40 NTU | 109.2 mV | 14.75 ft | 200.00 ml/min |
| 1/26/2023 10:53 AM | 35:00 | 6.09 pH | 16.69 °C | 558.44 µS/cm | 4.00 mg/L | 0.38 NTU | 141.3 mV | 14.75 ft | 200.00 ml/min |
| 1/26/2023 10:58 AM | 40:00 | 6.09 pH | 16.56 °C | 529.99 µS/cm | 4.08 mg/L | 0.45 NTU | 142.7 mV | 14.75 ft | 200.00 ml/min |
| 1/26/2023 11:03 AM | 45:00 | 6.09 pH | 16.61 °C | 530.99 µS/cm | 4.07 mg/L | 0.64 NTU | 144.3 mV | 14.75 ft | 200.00 ml/min |
| 1/26/2023 11:08 AM | 50:00 | 6.07 pH | 16.65 °C | 530.31 µS/cm | 3.93 mg/L | 0.27 NTU | 145.3 mV | 14.75 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-MW-5 | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/26/2023 11:50:31 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|---|---|--|
| Location Name: MW-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 22.96 ft Total Depth: 32.96 ft Initial Depth to Water: 14.55 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 27.96 ft Estimated Total Volume Pumped: 10 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.05 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|---|---|--|

Test Notes:

Five bottles; Full app. III and IV.

Weather Conditions:

Cloudy, 42 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 5 | |
| 1/26/2023 11:50 AM | 00:00 | 6.79 pH | 17.63 °C | 1,046.1 µS/cm | 1.62 mg/L | 61.20 NTU | -11.0 mV | 14.60 ft | 200.00 ml/min |
| 1/26/2023 11:55 AM | 05:00 | 6.83 pH | 18.00 °C | 1,031.6 µS/cm | 1.10 mg/L | 58.30 NTU | 12.1 mV | 14.60 ft | 200.00 ml/min |
| 1/26/2023 12:00 PM | 10:00 | 6.86 pH | 18.00 °C | 1,024.8 µS/cm | 1.11 mg/L | 26.00 NTU | 15.0 mV | 14.60 ft | 200.00 ml/min |
| 1/26/2023 12:05 PM | 15:00 | 6.86 pH | 18.12 °C | 1,025.3 µS/cm | 1.07 mg/L | 16.20 NTU | 16.6 mV | 14.60 ft | 200.00 ml/min |
| 1/26/2023 12:10 PM | 20:00 | 6.87 pH | 18.03 °C | 1,021.3 µS/cm | 0.96 mg/L | 12.20 NTU | 18.6 mV | 14.60 ft | 200.00 ml/min |
| 1/26/2023 12:15 PM | 25:00 | 6.88 pH | 18.25 °C | 1,015.2 µS/cm | 0.85 mg/L | 8.47 NTU | 19.5 mV | 14.60 ft | 200.00 ml/min |
| 1/26/2023 12:20 PM | 30:00 | 6.89 pH | 18.21 °C | 1,024.6 µS/cm | 0.92 mg/L | 5.66 NTU | 19.2 mV | 14.60 ft | 200.00 ml/min |
| 1/26/2023 12:25 PM | 35:00 | 6.89 pH | 18.24 °C | 1,012.3 µS/cm | 0.89 mg/L | 5.09 NTU | 18.9 mV | 14.60 ft | 200.00 ml/min |
| 1/26/2023 12:30 PM | 40:00 | 6.90 pH | 18.06 °C | 974.27 µS/cm | 1.00 mg/L | 4.02 NTU | 18.5 mV | 14.60 ft | 200.00 ml/min |
| 1/26/2023 12:35 PM | 45:00 | 6.90 pH | 17.99 °C | 1,010.2 µS/cm | 0.90 mg/L | 3.19 NTU | 19.5 mV | 14.60 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-MW-6 | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/26/2023 1:28:56 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|--|---|--|
| Location Name: MW-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 16.89 ft Total Depth: 26.89 ft Initial Depth to Water: 10.9 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 21.89 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|--|---|--|

Test Notes:

Five bottles; Full app. III and IV.

Weather Conditions:

Cloudy, 42 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 5 | |
| 1/26/2023 1:28 PM | 00:00 | 6.31 pH | 16.29 °C | 143.30 µS/cm | 3.64 mg/L | 4.08 NTU | 116.2 mV | 10.90 ft | 200.00 ml/min |
| 1/26/2023 1:33 PM | 05:00 | 6.18 pH | 16.24 °C | 143.78 µS/cm | 3.58 mg/L | 2.92 NTU | 114.1 mV | 10.90 ft | 200.00 ml/min |
| 1/26/2023 1:38 PM | 10:00 | 6.16 pH | 16.22 °C | 144.64 µS/cm | 3.53 mg/L | 1.50 NTU | 114.8 mV | 10.90 ft | 200.00 ml/min |
| 1/26/2023 1:43 PM | 15:00 | 6.17 pH | 16.41 °C | 146.86 µS/cm | 3.53 mg/L | 1.44 NTU | 114.2 mV | 10.90 ft | 200.00 ml/min |
| 1/26/2023 1:48 PM | 20:00 | 6.19 pH | 16.52 °C | 147.27 µS/cm | 3.53 mg/L | 1.01 NTU | 112.6 mV | 10.90 ft | 200.00 ml/min |
| 1/26/2023 1:53 PM | 25:00 | 6.20 pH | 16.42 °C | 150.64 µS/cm | 3.45 mg/L | 1.22 NTU | 110.6 mV | 10.90 ft | 200.00 ml/min |
| 1/26/2023 1:59 PM | 30:44 | 6.23 pH | 16.33 °C | 152.78 µS/cm | 3.54 mg/L | 0.97 NTU | 102.6 mV | 10.90 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-MW-7 | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/26/2023 3:30:09 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

| | | |
|--|---|--|
| Location Name: MW-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 19.53 ft Total Depth: 29.53 ft Initial Depth to Water: 11.67 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 29.53 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 400 Serial Number: 966090 |
|--|---|--|

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Cloudy, 46 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 5 | |
| 1/26/2023 3:30 PM | 00:00 | 6.12 pH | 15.77 °C | 668.72 µS/cm | 2.02 mg/L | 3.98 NTU | 48.4 mV | 11.67 ft | 200.00 ml/min |
| 1/26/2023 3:35 PM | 05:00 | 6.09 pH | 17.22 °C | 654.23 µS/cm | 1.49 mg/L | 6.02 NTU | 42.2 mV | 11.67 ft | 200.00 ml/min |
| 1/26/2023 3:40 PM | 10:00 | 6.10 pH | 17.66 °C | 633.69 µS/cm | 1.15 mg/L | 5.36 NTU | 40.2 mV | 11.67 ft | 200.00 ml/min |
| 1/26/2023 3:45 PM | 15:00 | 6.10 pH | 17.22 °C | 628.16 µS/cm | 1.06 mg/L | 3.90 NTU | 37.3 mV | 11.67 ft | 200.00 ml/min |
| 1/26/2023 3:50 PM | 20:00 | 6.10 pH | 17.11 °C | 634.70 µS/cm | 0.95 mg/L | 3.52 NTU | 36.2 mV | 11.67 ft | 200.00 ml/min |
| 1/26/2023 3:55 PM | 25:00 | 6.11 pH | 17.13 °C | 651.12 µS/cm | 1.02 mg/L | 3.41 NTU | 36.3 mV | 11.67 ft | 200.00 ml/min |
| 1/26/2023 4:00 PM | 30:00 | 6.13 pH | 17.46 °C | 657.88 µS/cm | 0.95 mg/L | 2.70 NTU | 34.3 mV | 11.67 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-MW-19 | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/26/2023 9:13:22 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|---|--|--|
| Location Name: MW-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 24.37 ft Total Depth: 34.37 ft Initial Depth to Water: 11.6 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 29.37 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.22 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|---|--|--|

Test Notes:

Five bottles; Full app. III and IV.

Weather Conditions:

Sunny, 42 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 5 | |
| 1/26/2023 9:13 AM | 00:00 | 6.64 pH | 16.24 °C | 700.59 µS/cm | 2.33 mg/L | 8.25 NTU | -51.8 mV | 11.82 ft | 200.00 ml/min |
| 1/26/2023 9:18 AM | 05:00 | 6.75 pH | 16.86 °C | 710.09 µS/cm | 1.14 mg/L | 5.26 NTU | -66.7 mV | 11.82 ft | 200.00 ml/min |
| 1/26/2023 9:23 AM | 10:00 | 6.84 pH | 16.91 °C | 728.56 µS/cm | 1.09 mg/L | 5.36 NTU | -73.7 mV | 11.82 ft | 200.00 ml/min |
| 1/26/2023 9:28 AM | 15:00 | 6.88 pH | 17.09 °C | 736.14 µS/cm | 0.95 mg/L | 5.29 NTU | -77.5 mV | 11.82 ft | 200.00 ml/min |
| 1/26/2023 9:33 AM | 20:00 | 6.92 pH | 16.93 °C | 736.47 µS/cm | 0.86 mg/L | 5.18 NTU | -78.7 mV | 11.82 ft | 200.00 ml/min |
| 1/26/2023 9:38 AM | 25:00 | 6.94 pH | 16.92 °C | 740.90 µS/cm | 0.90 mg/L | 4.67 NTU | -79.1 mV | 11.82 ft | 200.00 ml/min |
| 1/26/2023 9:43 AM | 30:00 | 6.95 pH | 16.84 °C | 742.45 µS/cm | 0.75 mg/L | 4.58 NTU | -78.7 mV | 11.82 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-MW-20 | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/26/2023 10:30:58 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

| | | |
|---|---|--|
| Location Name: MW-24D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 62.77 ft Total Depth: 72.77 ft Initial Depth to Water: 27.23 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 67.77 ft Estimated Total Volume Pumped: 12 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.05 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883533 |
|---|---|--|

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Cloudy, 45 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 1/26/2023 10:30 AM | 00:00 | 7.51 pH | 16.80 °C | 617.14 µS/cm | 1.10 mg/L | 1.40 NTU | -24.6 mV | 27.25 ft | 200.00 ml/min |
| 1/26/2023 10:35 AM | 05:00 | 7.56 pH | 17.31 °C | 621.63 µS/cm | 0.68 mg/L | 2.40 NTU | -23.4 mV | 27.28 ft | 200.00 ml/min |
| 1/26/2023 10:40 AM | 10:00 | 7.57 pH | 17.04 °C | 620.87 µS/cm | 0.43 mg/L | 2.83 NTU | -35.8 mV | 27.28 ft | 200.00 ml/min |
| 1/26/2023 10:45 AM | 15:00 | 7.58 pH | 17.07 °C | 622.84 µS/cm | 0.32 mg/L | 3.47 NTU | -20.6 mV | 27.28 ft | 200.00 ml/min |
| 1/26/2023 10:50 AM | 20:00 | 7.58 pH | 17.10 °C | 621.68 µS/cm | 0.26 mg/L | 4.79 NTU | -32.4 mV | 27.28 ft | 200.00 ml/min |
| 1/26/2023 10:55 AM | 25:00 | 7.59 pH | 17.19 °C | 620.14 µS/cm | 0.24 mg/L | 6.57 NTU | -17.4 mV | 27.28 ft | 200.00 ml/min |
| 1/26/2023 11:00 AM | 30:00 | 7.59 pH | 17.12 °C | 620.59 µS/cm | 0.23 mg/L | 7.65 NTU | -15.7 mV | 27.28 ft | 200.00 ml/min |
| 1/26/2023 11:05 AM | 35:00 | 7.59 pH | 17.14 °C | 619.18 µS/cm | 0.23 mg/L | 8.46 NTU | -14.2 mV | 27.28 ft | 200.00 ml/min |
| 1/26/2023 11:10 AM | 40:00 | 7.59 pH | 17.28 °C | 620.18 µS/cm | 0.22 mg/L | 8.13 NTU | -13.1 mV | 27.28 ft | 200.00 ml/min |
| 1/26/2023 11:15 AM | 45:00 | 7.60 pH | 17.10 °C | 618.37 µS/cm | 0.22 mg/L | 6.62 NTU | -11.6 mV | 27.28 ft | 200.00 ml/min |
| 1/26/2023 11:20 AM | 50:00 | 7.59 pH | 17.23 °C | 620.14 µS/cm | 0.22 mg/L | 7.07 NTU | -10.6 mV | 27.28 ft | 200.00 ml/min |
| 1/26/2023 11:25 AM | 55:00 | 7.60 pH | 17.10 °C | 618.19 µS/cm | 0.23 mg/L | 4.92 NTU | -21.0 mV | 27.28 ft | 200.00 ml/min |
| 1/26/2023 11:30 AM | 01:00:00 | 7.61 pH | 17.09 °C | 619.68 µS/cm | 0.61 mg/L | | -20.5 mV | 27.28 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-MW-24D | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/26/2023 9:34:00 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

| | | |
|---|---|--|
| Location Name: MW-25D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.21 ft Total Depth: 63.21 ft Initial Depth to Water: 13.75 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 35.26 ft Estimated Total Volume Pumped: 5.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 4.47 ft | Instrument Used: Aqua TROLL 400 Serial Number: 966090 |
|---|---|--|

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Cloudy, 45 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 5 | |
| 1/26/2023 9:34 AM | 00:00 | 7.51 pH | 16.91 °C | 586.34 µS/cm | 0.56 mg/L | 1.90 NTU | -88.7 mV | 15.28 ft | 200.00 ml/min |
| 1/26/2023 9:39 AM | 05:00 | 7.63 pH | 16.91 °C | 585.87 µS/cm | 0.51 mg/L | 0.80 NTU | -96.2 mV | 16.20 ft | 200.00 ml/min |
| 1/26/2023 9:44 AM | 10:00 | 7.68 pH | 16.86 °C | 584.23 µS/cm | 0.47 mg/L | 0.83 NTU | -100.5 mV | 16.96 ft | 200.00 ml/min |
| 1/26/2023 9:49 AM | 15:00 | 7.70 pH | 17.19 °C | 581.39 µS/cm | 0.46 mg/L | 0.69 NTU | -103.7 mV | 17.82 ft | 200.00 ml/min |
| 1/26/2023 9:54 AM | 20:00 | 7.70 pH | 17.24 °C | 581.47 µS/cm | 0.86 mg/L | 0.59 NTU | -103.8 mV | 18.39 ft | 200.00 ml/min |
| 1/26/2023 9:59 AM | 25:00 | 7.71 pH | 16.08 °C | 574.15 µS/cm | 1.05 mg/L | 0.50 NTU | -98.4 mV | 18.35 ft | 200.00 ml/min |
| 1/26/2023 10:04 AM | 30:00 | 7.73 pH | 15.20 °C | 578.01 µS/cm | 1.07 mg/L | 0.48 NTU | -145.4 mV | 18.22 ft | 200.00 ml/min |
| 1/26/2023 10:09 AM | 35:00 | 7.74 pH | 15.24 °C | 586.46 µS/cm | 0.90 mg/L | 0.39 NTU | -99.5 mV | 18.22 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-MW-25D | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/26/2023 3:57:34 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

| | | |
|---|--|--|
| Location Name: MW-26D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 68.11 ft Total Depth: 78.11 ft Initial Depth to Water: 12.42 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 73.11 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.16 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883533 |
|---|--|--|

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Cloudy, windy, 45 deg F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 1/26/2023 3:57 PM | 00:00 | 7.27 pH | 16.54 °C | 984.88 µS/cm | 0.93 mg/L | 7.57 NTU | -147.3 mV | 12.59 ft | 200.00 ml/min |
| 1/26/2023 4:02 PM | 05:00 | 7.14 pH | 16.89 °C | 1,027.5 µS/cm | 0.25 mg/L | 12.29 NTU | -86.0 mV | 12.60 ft | 200.00 ml/min |
| 1/26/2023 4:07 PM | 10:00 | 7.14 pH | 16.92 °C | 1,028.2 µS/cm | 0.16 mg/L | 9.37 NTU | -88.2 mV | 12.60 ft | 200.00 ml/min |
| 1/26/2023 4:12 PM | 15:00 | 7.13 pH | 17.36 °C | 1,025.5 µS/cm | 0.12 mg/L | 5.41 NTU | -61.3 mV | 12.59 ft | 200.00 ml/min |
| 1/26/2023 4:17 PM | 20:00 | 7.14 pH | 17.26 °C | 1,026.0 µS/cm | 0.09 mg/L | 4.05 NTU | -56.1 mV | 12.58 ft | 200.00 ml/min |
| 1/26/2023 4:22 PM | 25:00 | 7.14 pH | 17.10 °C | 1,027.3 µS/cm | 0.09 mg/L | 3.97 NTU | -51.9 mV | 12.58 ft | 200.00 ml/min |
| 1/26/2023 4:27 PM | 30:00 | 7.14 pH | 17.05 °C | 1,027.9 µS/cm | 0.09 mg/L | 2.36 NTU | -48.8 mV | 12.58 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-MW-26D | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/27/2023 11:50:36 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

| | | |
|--|---|--|
| Location Name: MW-27D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.19 ft Total Depth: 63.19 ft Initial Depth to Water: 7.73 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 58.19 ft Estimated Total Volume Pumped: 53.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 45.56 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883533 |
|--|---|--|

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Sunny, 40 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 1/27/2023 11:50 AM | 00:00 | 7.48 pH | 17.36 °C | 463.75 µS/cm | 1.20 mg/L | 3.30 NTU | -104.7 mV | 10.05 ft | 250.00 ml/min |
| 1/27/2023 11:55 AM | 05:00 | 7.50 pH | 17.81 °C | 458.47 µS/cm | 0.73 mg/L | 2.06 NTU | -139.0 mV | 11.83 ft | 250.00 ml/min |
| 1/27/2023 12:00 PM | 10:00 | 7.51 pH | 17.85 °C | 456.90 µS/cm | 0.53 mg/L | 2.15 NTU | -164.8 mV | 13.32 ft | 250.00 ml/min |
| 1/27/2023 12:05 PM | 15:00 | 7.54 pH | 17.92 °C | 444.28 µS/cm | 0.41 mg/L | 3.13 NTU | -168.1 mV | 14.94 ft | 250.00 ml/min |
| 1/27/2023 12:10 PM | 20:00 | 7.56 pH | 18.02 °C | 428.83 µS/cm | 0.35 mg/L | 3.06 NTU | -154.5 mV | 16.55 ft | 250.00 ml/min |
| 1/27/2023 12:15 PM | 25:00 | 7.58 pH | 18.05 °C | 425.02 µS/cm | 0.36 mg/L | 3.49 NTU | -146.7 mV | 18.21 ft | 250.00 ml/min |
| 1/27/2023 12:20 PM | 30:00 | 7.59 pH | 18.17 °C | 423.01 µS/cm | 0.40 mg/L | 3.75 NTU | -141.1 mV | 19.68 ft | 250.00 ml/min |
| 1/27/2023 12:25 PM | 35:00 | 7.60 pH | 18.20 °C | 421.78 µS/cm | 1.11 mg/L | 3.91 NTU | -136.8 mV | 21.38 ft | 250.00 ml/min |
| 1/27/2023 12:30 PM | 40:00 | 7.60 pH | 18.30 °C | 421.75 µS/cm | 2.19 mg/L | 4.15 NTU | -119.5 mV | 22.92 ft | 250.00 ml/min |
| 1/27/2023 12:35 PM | 45:00 | 7.60 pH | 18.33 °C | 420.75 µS/cm | 1.94 mg/L | 3.76 NTU | -131.8 mV | 24.47 ft | 250.00 ml/min |
| 1/27/2023 12:40 PM | 50:00 | 7.61 pH | 18.31 °C | 422.93 µS/cm | 1.80 mg/L | 3.50 NTU | -130.3 mV | 25.75 ft | 250.00 ml/min |
| 1/27/2023 12:45 PM | 55:00 | 7.63 pH | 18.48 °C | 422.33 µS/cm | 1.83 mg/L | 3.90 NTU | -125.9 mV | 27.32 ft | 250.00 ml/min |
| 1/27/2023 12:50 PM | 01:00:00 | 7.67 pH | 18.45 °C | 423.26 µS/cm | 2.17 mg/L | 3.41 NTU | -118.9 mV | 28.57 ft | 250.00 ml/min |

| | | | | | | | | | |
|-----------------------|----------|---------|----------|--------------|-----------|----------|-----------|----------|---------------|
| 1/27/2023 12:55 PM | 01:05:00 | 7.70 pH | 18.16 °C | 425.67 µS/cm | 2.29 mg/L | 3.91 NTU | -112.9 mV | 30.40 ft | 250.00 ml/min |
| 1/27/2023 1:00 PM | 01:10:00 | 7.72 pH | 18.15 °C | 425.51 µS/cm | 2.37 mg/L | 3.64 NTU | -108.8 mV | 31.41 ft | 250.00 ml/min |
| 1/27/2023 1:05 PM | 01:15:00 | 7.74 pH | 18.25 °C | 425.37 µS/cm | 2.91 mg/L | 3.70 NTU | -106.4 mV | 32.87 ft | 250.00 ml/min |
| 1/27/2023 1:10 PM | 01:20:00 | 7.75 pH | 18.26 °C | 426.45 µS/cm | 3.31 mg/L | 3.80 NTU | -105.8 mV | 34.13 ft | 250.00 ml/min |
| 1/27/2023 1:15 PM | 01:25:00 | 7.76 pH | 18.25 °C | 425.76 µS/cm | 4.22 mg/L | 3.86 NTU | -82.7 mV | 35.40 ft | 250.00 ml/min |
| 1/27/2023 1:20 PM | 01:30:00 | 7.77 pH | 18.35 °C | 425.28 µS/cm | 4.41 mg/L | 4.08 NTU | -79.6 mV | 36.68 ft | 250.00 ml/min |
| 1/27/2023 1:25 PM | 01:35:00 | 7.77 pH | 18.39 °C | 425.54 µS/cm | 5.10 mg/L | 3.49 NTU | -104.5 mV | 37.91 ft | 250.00 ml/min |
| 1/27/2023 1:30 PM | 01:40:00 | 7.76 pH | 18.52 °C | 426.88 µS/cm | 4.79 mg/L | 3.45 NTU | -108.6 mV | 39.23 ft | 250.00 ml/min |
| 1/27/2023 1:35 PM | 01:45:00 | 7.77 pH | 18.45 °C | 425.08 µS/cm | 5.46 mg/L | 3.24 NTU | -109.4 mV | 40.45 ft | 250.00 ml/min |
| 1/27/2023 1:40 PM | 01:50:00 | 7.78 pH | 18.62 °C | 424.99 µS/cm | 5.05 mg/L | 3.04 NTU | -110.2 mV | 41.70 ft | 250.00 ml/min |
| 1/27/2023 1:45 PM | 01:55:00 | 7.77 pH | 18.67 °C | 425.23 µS/cm | 4.90 mg/L | 2.78 NTU | -111.6 mV | 42.75 ft | 250.00 ml/min |
| 1/27/2023 1:50 PM | 02:00:00 | 7.77 pH | 18.58 °C | 423.19 µS/cm | 5.43 mg/L | 2.88 NTU | -113.4 mV | 43.97 ft | 250.00 ml/min |
| 1/27/2023 1:55 PM | 02:05:00 | 7.78 pH | 18.17 °C | 424.48 µS/cm | 5.18 mg/L | 2.14 NTU | -109.4 mV | 44.40 ft | 100.00 ml/min |
| 1/27/2023 2:00 PM | 02:10:00 | 7.78 pH | 17.92 °C | 425.34 µS/cm | 3.82 mg/L | 1.96 NTU | -94.9 mV | 44.76 ft | 100.00 ml/min |
| 1/27/2023 2:05 PM | 02:15:00 | 7.76 pH | 17.86 °C | 426.40 µS/cm | 3.80 mg/L | 1.90 NTU | -99.3 mV | 44.99 ft | 100.00 ml/min |
| 1/27/2023 2:10 PM | 02:20:00 | 7.75 pH | 17.99 °C | 428.21 µS/cm | 5.92 mg/L | 1.78 NTU | -100.4 mV | 45.28 ft | 100.00 ml/min |
| 1/27/2023 2:15 PM | 02:25:00 | 7.76 pH | 17.97 °C | 426.66 µS/cm | 6.31 mg/L | 1.76 NTU | -115.5 mV | 45.54 ft | 100.00 ml/min |
| 1/27/2023 2:20 PM | 02:30:00 | 7.76 pH | 18.05 °C | 425.21 µS/cm | 2.99 mg/L | 1.53 NTU | -90.7 mV | 45.79 ft | 100.00 ml/min |
| 1/27/2023 2:25 PM | 02:35:00 | 7.75 pH | 18.02 °C | 425.86 µS/cm | 4.18 mg/L | 1.11 NTU | -106.0 mV | 46.01 ft | 100.00 ml/min |
| 1/27/2023 2:30 PM | 02:40:00 | 7.75 pH | 18.07 °C | 426.44 µS/cm | 3.85 mg/L | 1.35 NTU | -110.7 mV | 46.29 ft | 100.00 ml/min |
| 1/27/2023 2:35 PM | 02:45:00 | 7.75 pH | 18.08 °C | 424.24 µS/cm | 3.84 mg/L | 0.33 NTU | -127.7 mV | 46.51 ft | 100.00 ml/min |
| 1/27/2023 2:40 PM | 02:50:00 | 7.76 pH | 18.16 °C | 424.77 µS/cm | 2.43 mg/L | 0.89 NTU | -112.8 mV | 46.75 ft | 100.00 ml/min |
| 1/27/2023 2:45 PM | 02:55:00 | 7.76 pH | 18.19 °C | 425.76 µS/cm | 2.53 mg/L | 1.10 NTU | -113.6 mV | 46.99 ft | 100.00 ml/min |
| 1/27/2023 2:50 PM | 03:00:00 | 7.76 pH | 18.08 °C | 425.11 µS/cm | 2.26 mg/L | 0.89 NTU | -113.5 mV | 47.18 ft | 100.00 ml/min |
| 1/27/2023 2:55 PM | 03:05:00 | 7.77 pH | 18.19 °C | 428.68 µS/cm | 2.34 mg/L | 1.01 NTU | -127.4 mV | 47.45 ft | 100.00 ml/min |
| 1/27/2023 3:00 PM | 03:10:00 | 7.76 pH | 18.35 °C | 429.12 µS/cm | 2.53 mg/L | 0.63 NTU | -110.9 mV | 47.65 ft | 100.00 ml/min |
| 1/27/2023 3:05 PM | 03:15:00 | 7.77 pH | 18.10 °C | 425.70 µS/cm | 2.79 mg/L | 0.33 NTU | -127.6 mV | 47.88 ft | 100.00 ml/min |
| 1/27/2023 3:10 PM | 03:20:00 | 7.77 pH | 18.34 °C | 426.72 µS/cm | 3.24 mg/L | 0.59 NTU | -110.5 mV | 48.11 ft | 100.00 ml/min |
| 1/27/2023 3:15 PM | 03:25:00 | 7.77 pH | 18.27 °C | 425.67 µS/cm | 3.13 mg/L | 0.76 NTU | -124.8 mV | 48.32 ft | 100.00 ml/min |

| | | | | | | | | | |
|----------------------|----------|---------|----------|--------------|-----------|----------|-----------|----------|---------------|
| 1/27/2023 3:20 PM | 03:30:00 | 7.78 pH | 18.40 °C | 425.74 µS/cm | 2.95 mg/L | 0.58 NTU | -124.8 mV | 48.52 ft | 100.00 ml/min |
| 1/27/2023 3:25 PM | 03:35:00 | 7.78 pH | 18.37 °C | 424.68 µS/cm | 3.39 mg/L | 0.90 NTU | -125.7 mV | 48.74 ft | 100.00 ml/min |
| 1/27/2023 3:30 PM | 03:40:00 | 7.78 pH | 18.26 °C | 426.13 µS/cm | 2.69 mg/L | 1.17 NTU | -127.5 mV | 48.97 ft | 100.00 ml/min |
| 1/27/2023 3:35 PM | 03:45:00 | 7.78 pH | 18.21 °C | 424.90 µS/cm | 2.61 mg/L | 0.63 NTU | -128.9 mV | 49.17 ft | 100.00 ml/min |
| 1/27/2023 3:40 PM | 03:50:00 | 7.78 pH | 18.12 °C | 423.73 µS/cm | 2.68 mg/L | 0.52 NTU | -131.5 mV | 49.39 ft | 100.00 ml/min |
| 1/27/2023 3:45 PM | 03:55:00 | 7.78 pH | 17.96 °C | 423.59 µS/cm | 2.59 mg/L | 0.57 NTU | -117.0 mV | 49.59 ft | 100.00 ml/min |
| 1/27/2023 3:50 PM | 04:00:00 | 7.78 pH | 17.90 °C | 423.27 µS/cm | 2.51 mg/L | 0.55 NTU | -131.4 mV | 49.80 ft | 100.00 ml/min |
| 1/27/2023 3:55 PM | 04:05:00 | 7.78 pH | 18.16 °C | 423.26 µS/cm | 2.65 mg/L | 0.54 NTU | -132.0 mV | 50.00 ft | 100.00 ml/min |
| 1/27/2023 4:00 PM | 04:10:00 | 7.78 pH | 18.08 °C | 422.43 µS/cm | 2.53 mg/L | 0.51 NTU | -132.9 mV | 50.21 ft | 100.00 ml/min |
| 1/27/2023 4:05 PM | 04:15:00 | 7.78 pH | 18.08 °C | 422.11 µS/cm | 2.60 mg/L | 0.64 NTU | -133.9 mV | 50.41 ft | 100.00 ml/min |
| 1/27/2023 4:10 PM | 04:20:00 | 7.79 pH | 18.07 °C | 421.36 µS/cm | 2.50 mg/L | 0.34 NTU | -132.3 mV | 50.60 ft | 100.00 ml/min |
| 1/27/2023 4:15 PM | 04:25:00 | 7.79 pH | 17.99 °C | 420.84 µS/cm | 2.23 mg/L | 0.38 NTU | -131.5 mV | 50.79 ft | 100.00 ml/min |
| 1/27/2023 4:20 PM | 04:30:00 | 7.79 pH | 17.99 °C | 420.43 µS/cm | 2.65 mg/L | 0.46 NTU | -118.0 mV | 51.01 ft | 100.00 ml/min |
| 1/27/2023 4:25 PM | 04:35:00 | 7.79 pH | 17.94 °C | 420.19 µS/cm | 2.52 mg/L | 1.66 NTU | -132.3 mV | 51.19 ft | 100.00 ml/min |
| 1/27/2023 4:30 PM | 04:40:00 | 7.79 pH | 17.94 °C | 420.43 µS/cm | 2.50 mg/L | 0.48 NTU | -132.4 mV | 51.36 ft | 100.00 ml/min |
| 1/27/2023 4:35 PM | 04:45:00 | 7.79 pH | 17.80 °C | 417.82 µS/cm | 2.38 mg/L | 0.95 NTU | -133.1 mV | 51.53 ft | 100.00 ml/min |
| 1/27/2023 4:40 PM | 04:50:00 | 7.79 pH | 17.60 °C | 417.36 µS/cm | 2.51 mg/L | 0.51 NTU | -134.6 mV | 51.71 ft | 100.00 ml/min |
| 1/27/2023 4:45 PM | 04:55:00 | 7.79 pH | 17.32 °C | 419.44 µS/cm | 2.08 mg/L | 0.38 NTU | -134.5 mV | 51.89 ft | 100.00 ml/min |
| 1/27/2023 4:50 PM | 05:00:00 | 7.79 pH | 17.14 °C | 420.52 µS/cm | 2.39 mg/L | 0.44 NTU | -121.1 mV | 52.06 ft | 100.00 ml/min |
| 1/27/2023 4:55 PM | 05:05:00 | 7.79 pH | 17.08 °C | 420.24 µS/cm | 2.32 mg/L | 0.43 NTU | -135.7 mV | 52.25 ft | 100.00 ml/min |
| 1/27/2023 5:00 PM | 05:10:00 | 7.80 pH | 16.93 °C | 419.55 µS/cm | 2.42 mg/L | 0.63 NTU | -135.4 mV | 52.43 ft | 100.00 ml/min |
| 1/27/2023 5:05 PM | 05:15:00 | 7.80 pH | 16.87 °C | 420.18 µS/cm | 2.18 mg/L | 0.51 NTU | -135.8 mV | 52.61 ft | 100.00 ml/min |
| 1/27/2023 5:10 PM | 05:20:00 | 7.80 pH | 16.79 °C | 419.00 µS/cm | 2.06 mg/L | 1.11 NTU | -135.3 mV | 52.78 ft | 100.00 ml/min |
| 1/27/2023 5:15 PM | 05:25:00 | 7.79 pH | 16.74 °C | 418.03 µS/cm | 1.99 mg/L | 0.58 NTU | -137.0 mV | 52.96 ft | 100.00 ml/min |
| 1/27/2023 5:20 PM | 05:30:00 | 7.80 pH | 16.67 °C | 417.54 µS/cm | 1.84 mg/L | 0.71 NTU | -137.9 mV | 53.13 ft | 100.00 ml/min |
| 1/27/2023 5:25 PM | 05:35:00 | 7.80 pH | 16.60 °C | 418.00 µS/cm | 1.99 mg/L | 0.53 NTU | -138.8 mV | 53.24 ft | 100.00 ml/min |
| 1/27/2023 5:30 PM | 05:40:00 | 7.80 pH | 16.58 °C | 416.98 µS/cm | 1.95 mg/L | 0.65 NTU | -126.9 mV | 53.29 ft | 100.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-MW-27D | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/26/2023 4:08:35 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|--|---|--|
| Location Name: MW-28D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 48.21 ft Total Depth: 58.21 ft Initial Depth to Water: 6.12 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 53.21 ft Estimated Total Volume Pumped: 16000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.08 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|--|---|--|

Test Notes:

Five bottles; Full app. III and IV.

Weather Conditions:

Cloudy, 45 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 5 | |
| 1/26/2023 4:08 PM | 00:00 | 7.63 pH | 16.04 °C | 576.56 µS/cm | 0.84 mg/L | 62.50 NTU | -237.2 mV | 6.20 ft | 200.00 ml/min |
| 1/26/2023 4:13 PM | 05:00 | 7.69 pH | 16.46 °C | 548.18 µS/cm | 0.73 mg/L | 69.50 NTU | -254.2 mV | 6.20 ft | 200.00 ml/min |
| 1/26/2023 4:18 PM | 10:00 | 7.74 pH | 16.56 °C | 558.28 µS/cm | 0.81 mg/L | 51.20 NTU | -266.1 mV | 6.20 ft | 200.00 ml/min |
| 1/26/2023 4:23 PM | 15:00 | 7.75 pH | 16.49 °C | 570.62 µS/cm | 0.79 mg/L | 47.80 NTU | -277.9 mV | 6.20 ft | 200.00 ml/min |
| 1/26/2023 4:28 PM | 20:00 | 7.75 pH | 16.57 °C | 573.20 µS/cm | 0.72 mg/L | 49.70 NTU | -283.5 mV | 6.20 ft | 200.00 ml/min |
| 1/26/2023 4:33 PM | 25:00 | 7.74 pH | 16.65 °C | 578.28 µS/cm | 0.81 mg/L | 32.50 NTU | -286.0 mV | 6.20 ft | 200.00 ml/min |
| 1/26/2023 4:38 PM | 30:00 | 7.74 pH | 16.92 °C | 586.75 µS/cm | 0.74 mg/L | 18.70 NTU | -284.4 mV | 6.20 ft | 200.00 ml/min |
| 1/26/2023 4:43 PM | 35:00 | 7.72 pH | 16.76 °C | 587.27 µS/cm | 0.73 mg/L | 15.00 NTU | -280.0 mV | 6.20 ft | 200.00 ml/min |
| 1/26/2023 4:48 PM | 40:00 | 7.72 pH | 16.56 °C | 595.47 µS/cm | 0.77 mg/L | 14.70 NTU | -272.6 mV | 6.20 ft | 200.00 ml/min |
| 1/26/2023 4:53 PM | 45:00 | 7.70 pH | 16.47 °C | 592.17 µS/cm | 0.79 mg/L | 11.90 NTU | -276.6 mV | 6.20 ft | 200.00 ml/min |
| 1/26/2023 4:58 PM | 50:00 | 7.69 pH | 16.29 °C | 594.84 µS/cm | 0.25 mg/L | 10.42 NTU | -297.6 mV | 6.20 ft | 200.00 ml/min |
| 1/26/2023 5:03 PM | 55:00 | 7.69 pH | 16.35 °C | 599.00 µS/cm | 0.26 mg/L | 9.80 NTU | -286.1 mV | 6.20 ft | 200.00 ml/min |
| 1/26/2023 5:08 PM | 01:00:00 | 7.67 pH | 16.47 °C | 597.93 µS/cm | 0.24 mg/L | 9.47 NTU | -290.4 mV | 6.20 ft | 200.00 ml/min |

| | | | | | | | | | |
|----------------------|----------|---------|----------|--------------|-----------|----------|-----------|---------|---------------|
| 1/26/2023 5:13 PM | 01:05:00 | 7.67 pH | 16.38 °C | 597.16 µS/cm | 0.24 mg/L | 8.33 NTU | -288.6 mV | 6.20 ft | 200.00 ml/min |
| 1/26/2023 5:18 PM | 01:10:00 | 7.67 pH | 16.41 °C | 597.07 µS/cm | 0.21 mg/L | 8.06 NTU | -293.2 mV | 6.20 ft | 200.00 ml/min |
| 1/26/2023 5:23 PM | 01:15:00 | 7.67 pH | 16.41 °C | 597.22 µS/cm | 0.23 mg/L | 5.35 NTU | -294.3 mV | 6.20 ft | 200.00 ml/min |
| 1/26/2023 5:28 PM | 01:20:00 | 7.67 pH | 16.58 °C | 599.61 µS/cm | 0.22 mg/L | 4.88 NTU | -261.9 mV | 6.20 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-MW-28D | Grab. |

Low-Flow Test Report:

Test Date / Time: 1/26/2023 2:44:20 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|---|--|--|
| Location Name: MW-29 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18.25 ft Total Depth: 28.25 ft Initial Depth to Water: 4.25 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 23.25 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.05 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|---|--|--|

Test Notes:

Five bottles; Full app. III and IV.

Weather Conditions:

Cloudy, 45 degrees

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 5 | |
| 1/26/2023 2:44 PM | 00:00 | 7.15 pH | 15.14 °C | 769.36 µS/cm | 1.96 mg/L | 14.50 NTU | 46.7 mV | 4.30 ft | 200.00 ml/min |
| 1/26/2023 2:49 PM | 05:00 | 7.19 pH | 15.12 °C | 907.64 µS/cm | 2.07 mg/L | 8.21 NTU | 39.3 mV | 4.30 ft | 200.00 ml/min |
| 1/26/2023 2:54 PM | 10:00 | 7.21 pH | 15.07 °C | 897.48 µS/cm | 2.00 mg/L | 7.94 NTU | 38.6 mV | 4.30 ft | 200.00 ml/min |
| 1/26/2023 2:59 PM | 15:00 | 7.22 pH | 14.94 °C | 899.36 µS/cm | 1.73 mg/L | 7.41 NTU | 38.4 mV | 4.30 ft | 200.00 ml/min |
| 1/26/2023 3:04 PM | 20:00 | 7.22 pH | 15.15 °C | 932.56 µS/cm | 1.76 mg/L | 3.59 NTU | 38.3 mV | 4.30 ft | 200.00 ml/min |
| 1/26/2023 3:09 PM | 25:00 | 7.23 pH | 15.25 °C | 898.66 µS/cm | 1.74 mg/L | 3.27 NTU | 36.5 mV | 4.30 ft | 200.00 ml/min |
| 1/26/2023 3:14 PM | 30:00 | 7.22 pH | 15.16 °C | 899.96 µS/cm | 1.59 mg/L | 3.02 NTU | 36.3 mV | 4.30 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| MW-29 | Grab. |

August 2023

Low-Flow Test Report:

Test Date / Time: 8/8/2023 10:12:18 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

| | | |
|--|---|--|
| Location Name: HGWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 22.49 ft Total Depth: 32.49 ft Initial Depth to Water: 22 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 27.49 m Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.56 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883553 |
|--|---|--|

Test Notes:

Seven Bottles: Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 72 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/8/2023 10:12 AM | 00:00 | 7.03 pH | 20.35 °C | 726.31 µS/cm | 3.03 mg/L | 4.07 NTU | -48.3 mV | 22.17 ft | 200.00 ml/min |
| 8/8/2023 10:17 AM | 05:00 | 7.04 pH | 18.79 °C | 756.63 µS/cm | 0.48 mg/L | 2.64 NTU | -60.6 mV | 22.48 ft | 200.00 ml/min |
| 8/8/2023 10:22 AM | 10:00 | 7.04 pH | 18.52 °C | 769.61 µS/cm | 0.34 mg/L | 0.78 NTU | -94.5 mV | 22.52 ft | 200.00 ml/min |
| 8/8/2023 10:27 AM | 15:00 | 7.05 pH | 18.43 °C | 768.89 µS/cm | 0.34 mg/L | 0.52 NTU | -52.6 mV | 22.53 ft | 200.00 ml/min |
| 8/8/2023 10:32 AM | 20:00 | 7.05 pH | 18.34 °C | 760.67 µS/cm | 0.36 mg/L | 0.09 NTU | -81.3 mV | 22.56 ft | 200.00 ml/min |
| 8/8/2023 10:37 AM | 25:00 | 7.05 pH | 18.39 °C | 755.28 µS/cm | 0.33 mg/L | 0.14 NTU | -75.5 mV | 22.56 ft | 200.00 ml/min |
| 8/8/2023 10:42 AM | 30:00 | 7.05 pH | 18.51 °C | 749.51 µS/cm | 0.29 mg/L | 0.10 NTU | -40.2 mV | 22.56 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-HGWA-1 | Grab |

Low-Flow Test Report:

Test Date / Time: 8/8/2023 3:33:05 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

| | | |
|---|--|--|
| Location Name: HGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.95 ft Total Depth: 28.45 ft Initial Depth to Water: 14.84 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 22.95 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.06 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883553 |
|---|--|--|

Test Notes:

Seven Bottles: Full app. III and IV and Major Ions.

Weather Conditions:

Cloudy, 72 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/8/2023 3:33 PM | 00:00 | 5.07 pH | 19.68 °C | 270.46 µS/cm | 1.45 mg/L | 98.70 NTU | 150.9 mV | 14.90 ft | 200.00 ml/min |
| 8/8/2023 3:38 PM | 05:00 | 5.04 pH | 19.46 °C | 277.38 µS/cm | 0.35 mg/L | 33.10 NTU | 189.6 mV | 14.90 ft | 200.00 ml/min |
| 8/8/2023 3:43 PM | 10:00 | 5.03 pH | 19.43 °C | 279.40 µS/cm | 0.21 mg/L | 9.07 NTU | 256.0 mV | 14.90 ft | 200.00 ml/min |
| 8/8/2023 3:48 PM | 15:00 | 5.02 pH | 19.42 °C | 281.09 µS/cm | 0.18 mg/L | 4.88 NTU | 253.8 mV | 14.90 ft | 200.00 ml/min |
| 8/8/2023 3:53 PM | 20:00 | 5.01 pH | 19.31 °C | 281.23 µS/cm | 0.15 mg/L | 4.82 NTU | 252.8 mV | 14.90 ft | 200.00 ml/min |
| 8/8/2023 3:58 PM | 25:00 | 5.02 pH | 19.32 °C | 281.85 µS/cm | 0.17 mg/L | 2.96 NTU | 250.1 mV | 14.90 ft | 200.00 ml/min |
| 8/8/2023 4:03 PM | 30:00 | 5.01 pH | 19.30 °C | 282.33 µS/cm | 0.16 mg/L | 1.97 NTU | 248.5 mV | 14.90 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-HGWA-2 | Grab |

Low-Flow Test Report:

Test Date / Time: 8/8/2023 2:10:57 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

| | | |
|---|--|--|
| Location Name: HGWA-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 34.51 ft Total Depth: 45.20 ft Initial Depth to Water: 14.55 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 39.51 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.01 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883553 |
|---|--|--|

Test Notes:

Seven Bottles: Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 72 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/8/2023 2:10 PM | 00:00 | 7.36 pH | 19.82 °C | 464.66 µS/cm | 0.47 mg/L | 17.90 NTU | -54.2 mV | 14.56 ft | 200.00 ml/min |
| 8/8/2023 2:15 PM | 05:00 | 7.39 pH | 19.66 °C | 466.57 µS/cm | 0.36 mg/L | 10.73 NTU | -58.7 mV | 14.56 ft | 200.00 ml/min |
| 8/8/2023 2:20 PM | 10:00 | 7.41 pH | 19.59 °C | 465.96 µS/cm | 0.19 mg/L | 6.84 NTU | -90.3 mV | 14.56 ft | 200.00 ml/min |
| 8/8/2023 2:25 PM | 15:00 | 7.41 pH | 19.64 °C | 465.94 µS/cm | 0.20 mg/L | 5.85 NTU | -90.5 mV | 14.56 ft | 200.00 ml/min |
| 8/8/2023 2:30 PM | 20:00 | 7.41 pH | 19.60 °C | 463.55 µS/cm | 0.17 mg/L | 4.56 NTU | -90.3 mV | 14.56 ft | 200.00 ml/min |
| 8/8/2023 2:35 PM | 25:00 | 7.41 pH | 19.55 °C | 465.16 µS/cm | 0.17 mg/L | 3.43 NTU | -89.9 mV | 14.56 ft | 200.00 ml/min |
| 8/8/2023 2:40 PM | 30:00 | 7.42 pH | 19.41 °C | 464.71 µS/cm | 0.19 mg/L | 1.58 NTU | -89.7 mV | 14.56 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-HGWA-3 | Grab |

Low-Flow Test Report:

Test Date / Time: 8/8/2023 10:14:50 AM

Project: GP-Plant Hammond

Operator Name: Elisabeth McDonnell

| | | |
|---|---|--|
| Location Name: HGWA-43D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51.25 ft Total Depth: 61.85 ft Initial Depth to Water: 21.84 ft | Pump Type: Bladder pump Tubing Type: Polly Pump Intake From TOC: 56.25 ft Estimated Total Volume Pumped: 10.4 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 3.66 ft | Instrument Used: Aqua TROLL 400 Serial Number: 989630 |
|---|---|--|

Test Notes:

Seven Bottles: Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 72 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/8/2023 10:14 AM | 00:00 | 7.41 pH | 19.92 °C | 504.12 µS/cm | 1.58 mg/L | 3.56 NTU | -59.6 mV | 22.73 ft | 200.00 ml/min |
| 8/8/2023 10:19 AM | 05:00 | 7.42 pH | 18.66 °C | 502.40 µS/cm | 1.23 mg/L | 3.47 NTU | -56.2 mV | 23.49 ft | 200.00 ml/min |
| 8/8/2023 10:24 AM | 10:00 | 7.40 pH | 18.47 °C | 497.35 µS/cm | 1.34 mg/L | 1.98 NTU | -86.4 mV | 21.33 ft | 200.00 ml/min |
| 8/8/2023 10:29 AM | 15:00 | 7.40 pH | 18.39 °C | 492.20 µS/cm | 1.16 mg/L | 1.46 NTU | -52.2 mV | 24.72 ft | 200.00 ml/min |
| 8/8/2023 10:34 AM | 20:00 | 7.40 pH | 18.38 °C | 489.04 µS/cm | 1.00 mg/L | 1.31 NTU | -92.8 mV | 24.90 ft | 200.00 ml/min |
| 8/8/2023 10:39 AM | 25:00 | 7.40 pH | 18.48 °C | 479.19 µS/cm | 0.88 mg/L | 1.58 NTU | -95.5 mV | 25.15 ft | 200.00 ml/min |
| 8/8/2023 10:41 AM | 26:51 | 7.39 pH | 18.50 °C | 476.93 µS/cm | 0.83 mg/L | 1.54 NTU | -61.1 mV | 25.25 ft | 200.00 ml/min |
| 8/8/2023 10:46 AM | 31:51 | 7.39 pH | 18.49 °C | 469.23 µS/cm | 0.72 mg/L | 0.96 NTU | -95.0 mV | 25.35 ft | 200.00 ml/min |
| 8/8/2023 10:51 AM | 36:51 | 7.39 pH | 18.43 °C | 463.73 µS/cm | 0.71 mg/L | 0.38 NTU | -55.9 mV | 25.40 ft | 200.00 ml/min |
| 8/8/2023 10:56 AM | 41:51 | 7.39 pH | 18.40 °C | 457.64 µS/cm | 0.70 mg/L | 0.86 NTU | -56.2 mV | 25.50 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

| | |
|--------------|------|
| HAM-HGWA-43D | Grab |
|--------------|------|

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/8/2023 10:09:47 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|---|---|--|
| Location Name: HGWA-44D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 103.5 ft Total Depth: 111.16 ft Initial Depth to Water: 21.5 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 108.5 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 2.6 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|---|---|--|

Test Notes:

Seven bottles: Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 72 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/8/2023 10:09 AM | 00:00 | 8.16 pH | 19.50 °C | 610.12 µS/cm | 0.63 mg/L | | -101.2 mV | | 100.00 ml/min |
| 8/8/2023 10:14 AM | 05:00 | 8.16 pH | 19.26 °C | 605.42 µS/cm | 0.50 mg/L | | -104.5 mV | | 100.00 ml/min |
| 8/8/2023 10:19 AM | 10:00 | 8.15 pH | 19.09 °C | 603.18 µS/cm | 0.43 mg/L | 4.73 NTU | -149.9 mV | 23.10 ft | 100.00 ml/min |
| 8/8/2023 10:24 AM | 15:00 | 8.14 pH | 19.06 °C | 597.87 µS/cm | 0.36 mg/L | 14.80 NTU | -148.4 mV | 23.30 ft | 100.00 ml/min |
| 8/8/2023 10:29 AM | 20:00 | 8.14 pH | 19.06 °C | 592.68 µS/cm | 0.33 mg/L | 8.24 NTU | -125.7 mV | 23.43 ft | 100.00 ml/min |
| 8/8/2023 10:34 AM | 25:00 | 8.14 pH | 19.22 °C | 585.55 µS/cm | 0.29 mg/L | 6.13 NTU | -83.5 mV | 23.59 ft | 100.00 ml/min |
| 8/8/2023 10:39 AM | 30:00 | 8.17 pH | 19.23 °C | 582.95 µS/cm | 0.26 mg/L | 6.56 NTU | -123.6 mV | 23.75 ft | 100.00 ml/min |
| 8/8/2023 10:44 AM | 35:00 | 8.17 pH | 19.23 °C | 577.53 µS/cm | 0.24 mg/L | 8.07 NTU | -93.1 mV | 23.90 ft | 100.00 ml/min |
| 8/8/2023 10:49 AM | 40:00 | 8.19 pH | 19.46 °C | 572.46 µS/cm | 0.22 mg/L | 5.71 NTU | -133.2 mV | 24.05 ft | 100.00 ml/min |
| 8/8/2023 10:54 AM | 45:00 | 8.20 pH | 19.47 °C | 566.71 µS/cm | 0.21 mg/L | 4.90 NTU | -101.1 mV | 24.10 ft | 100.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

| | |
|----------|------|
| HGWA-44D | Grab |
|----------|------|

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/12/2023 1:40:22 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

| | | |
|--|---|--|
| Location Name: HGWC-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.96 ft Total Depth: 28.71 ft Initial Depth to Water: 13.3 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 22.96 ft Estimated Total Volume Pumped: 11 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.1 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883553 |
|--|---|--|

Test Notes:

Seven bottles. Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 72 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/12/2023 1:40 PM | 00:00 | 7.33 pH | 27.84 °C | 603.35 µS/cm | 1.04 mg/L | 2.43 NTU | 16.7 mV | 13.35 ft | 200.00 ml/min |
| 8/12/2023 1:45 PM | 05:00 | 7.38 pH | 23.44 °C | 608.88 µS/cm | 0.26 mg/L | 4.25 NTU | 23.1 mV | 13.37 ft | 200.00 ml/min |
| 8/12/2023 1:50 PM | 10:00 | 7.40 pH | 22.18 °C | 617.39 µS/cm | 0.12 mg/L | 9.67 NTU | 19.2 mV | 13.38 ft | 200.00 ml/min |
| 8/12/2023 1:55 PM | 15:00 | 7.40 pH | 21.95 °C | 624.00 µS/cm | 0.11 mg/L | 23.50 NTU | 21.9 mV | 13.39 ft | 200.00 ml/min |
| 8/12/2023 2:00 PM | 20:00 | 7.39 pH | 21.84 °C | 623.10 µS/cm | 0.09 mg/L | 25.50 NTU | 28.3 mV | 13.40 ft | 200.00 ml/min |
| 8/12/2023 2:05 PM | 25:00 | 7.38 pH | 21.78 °C | 618.58 µS/cm | 0.09 mg/L | 19.90 NTU | 26.7 mV | 13.40 ft | 200.00 ml/min |
| 8/12/2023 2:10 PM | 30:00 | 7.38 pH | 21.77 °C | 617.67 µS/cm | 0.08 mg/L | 12.80 NTU | 25.9 mV | 13.40 ft | 200.00 ml/min |
| 8/12/2023 2:15 PM | 35:00 | 7.37 pH | 21.84 °C | 618.59 µS/cm | 0.08 mg/L | 10.19 NTU | 28.4 mV | 13.40 ft | 200.00 ml/min |
| 8/12/2023 2:20 PM | 40:00 | 7.37 pH | 21.73 °C | 616.28 µS/cm | 0.08 mg/L | 7.18 NTU | 27.0 mV | 13.40 ft | 200.00 ml/min |
| 8/12/2023 2:25 PM | 45:00 | 7.36 pH | 21.69 °C | 617.19 µS/cm | 0.07 mg/L | 5.13 NTU | 29.0 mV | 13.40 ft | 200.00 ml/min |
| 8/12/2023 2:30 PM | 50:00 | 7.36 pH | 21.73 °C | 617.13 µS/cm | 0.08 mg/L | 3.50 NTU | 29.5 mV | 13.40 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-HGWC-7 | Grab |

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/12/2023 9:02:57 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

| | | |
|---|---|--|
| Location Name: HGWC-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 15.51 ft Total Depth: 25.04 ft Initial Depth to Water: 13.97 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 20.51 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.05 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883530 |
|---|---|--|

Test Notes:

Seven bottles. Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 72 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 10 | +/- 10 | +/- 0.3 | |
| 8/12/2023 9:02 AM | 00:00 | 6.79 pH | 21.08 °C | 774.49 µS/cm | 0.14 mg/L | 0.41 NTU | 64.6 mV | 14.01 ft | 200.00 ml/min |
| 8/12/2023 9:07 AM | 05:00 | 6.83 pH | 20.78 °C | 781.09 µS/cm | 0.08 mg/L | 4.49 NTU | 372.6 mV | 14.01 ft | 200.00 ml/min |
| 8/12/2023 9:12 AM | 10:00 | 6.84 pH | 20.52 °C | 775.54 µS/cm | 0.05 mg/L | 5.62 NTU | 475.1 mV | 14.01 ft | 200.00 ml/min |
| 8/12/2023 9:17 AM | 15:00 | 6.83 pH | 20.58 °C | 771.66 µS/cm | 0.03 mg/L | 2.08 NTU | 461.9 mV | 14.01 ft | 200.00 ml/min |
| 8/12/2023 9:22 AM | 20:00 | 6.83 pH | 20.71 °C | 766.56 µS/cm | 0.02 mg/L | 1.54 NTU | 460.5 mV | 14.01 ft | 200.00 ml/min |
| 8/12/2023 9:27 AM | 25:00 | 6.84 pH | 20.49 °C | 774.17 µS/cm | 0.02 mg/L | 1.82 NTU | 510.0 mV | 14.02 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-HGWC-8 | Grab |

Low-Flow Test Report:

Test Date / Time: 8/11/2023 4:28:09 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

| | | |
|---|---|--|
| Location Name: HGWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 36.97 ft Total Depth: 47.65 ft Initial Depth to Water: 14.66 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 42.69 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.06 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883553 |
|---|---|--|

Test Notes:

Seven bottles. Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 72 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/11/2023 4:28 PM | 00:00 | 7.11 pH | 22.31 °C | 974.44 µS/cm | 0.24 mg/L | 2.07 NTU | 9.0 mV | 14.72 ft | 200.00 ml/min |
| 8/11/2023 4:33 PM | 05:00 | 7.13 pH | 22.21 °C | 987.36 µS/cm | 0.20 mg/L | 1.59 NTU | 12.6 mV | 14.72 ft | 200.00 ml/min |
| 8/11/2023 4:38 PM | 10:00 | 7.13 pH | 22.00 °C | 988.45 µS/cm | 0.17 mg/L | 1.01 NTU | 22.9 mV | 14.72 ft | 200.00 ml/min |
| 8/11/2023 4:43 PM | 15:00 | 7.12 pH | 21.95 °C | 986.85 µS/cm | 0.16 mg/L | 0.92 NTU | 22.5 mV | 14.72 ft | 200.00 ml/min |
| 8/11/2023 4:48 PM | 20:00 | 7.11 pH | 21.86 °C | 988.04 µS/cm | 0.14 mg/L | 0.97 NTU | 26.9 mV | 14.72 ft | 200.00 ml/min |
| 8/11/2023 4:53 PM | 25:00 | 7.10 pH | 22.00 °C | 990.27 µS/cm | 0.13 mg/L | 0.94 NTU | 26.2 mV | 14.72 ft | 200.00 ml/min |
| 8/11/2023 4:58 PM | 30:00 | 7.09 pH | 22.09 °C | 987.23 µS/cm | 0.12 mg/L | 0.93 NTU | 28.3 mV | 14.72 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-HGWC-9 | Grab |

Low-Flow Test Report:

Test Date / Time: 8/10/2023 4:14:53 PM

Project: GP-Plant Hammond

Operator Name: Elisabeth McDonnell

| | | |
|--|--|--|
| Location Name: HGWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 22.95 ft Total Depth: 22.70 ft Initial Depth to Water: 14.81 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 17.9 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.06 ft | Instrument Used: Aqua TROLL 400 Serial Number: 989630 |
|--|--|--|

Test Notes:

Seven bottles. Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 72 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/10/2023 4:14 PM | 00:00 | 6.83 pH | 22.23 °C | 724.22 µS/cm | 0.85 mg/L | 0.68 NTU | 88.2 mV | 14.87 ft | 200.00 ml/min |
| 8/10/2023 4:19 PM | 05:00 | 6.82 pH | 22.22 °C | 730.79 µS/cm | 0.77 mg/L | 0.43 NTU | 61.8 mV | 14.85 ft | 200.00 ml/min |
| 8/10/2023 4:24 PM | 10:00 | 6.82 pH | 22.17 °C | 735.89 µS/cm | 0.79 mg/L | 1.12 NTU | 59.1 mV | 14.85 ft | 200.00 ml/min |
| 8/10/2023 4:29 PM | 15:00 | 6.81 pH | 22.15 °C | 691.94 µS/cm | 0.90 mg/L | 0.00 NTU | 58.2 mV | 14.86 ft | 200.00 ml/min |
| 8/10/2023 4:34 PM | 20:00 | 6.81 pH | 21.84 °C | 588.40 µS/cm | 0.85 mg/L | 0.00 NTU | 57.9 mV | 14.86 ft | 200.00 ml/min |
| 8/10/2023 4:39 PM | 25:00 | 6.82 pH | 21.81 °C | 658.11 µS/cm | 0.90 mg/L | 0.28 NTU | 57.0 mV | 14.86 ft | 200.00 ml/min |
| 8/10/2023 4:44 PM | 30:00 | 6.82 pH | 21.99 °C | 721.33 µS/cm | 0.95 mg/L | 0.22 NTU | 56.4 mV | 14.87 ft | 200.00 ml/min |
| 8/10/2023 4:49 PM | 35:00 | 6.82 pH | 22.00 °C | 694.06 µS/cm | 0.93 mg/L | 0.00 NTU | 74.7 mV | 14.87 ft | 200.00 ml/min |
| 8/10/2023 4:54 PM | 40:00 | 6.81 pH | 21.91 °C | 703.14 µS/cm | 0.95 mg/L | 0.90 NTU | 74.3 mV | 14.87 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|-------------|--------------|
| HAM-HGWC-10 | Grab |

Low-Flow Test Report:

Test Date / Time: 8/10/2023 11:01:56 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

| | | |
|--|---|--|
| Location Name: HGWC-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 15.78 ft Total Depth: 25.96 ft Initial Depth to Water: 16.27 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 20.28 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.06 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883530 |
|--|---|--|

Test Notes:

Seven bottles. Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 72 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 10 | +/- 10 | +/- 0.3 | |
| 8/10/2023 11:01 AM | 00:00 | 5.66 pH | 21.05 °C | 546.82 µS/cm | 3.14 mg/L | 5.29 NTU | 196.4 mV | 16.34 ft | 200.00 ml/min |
| 8/10/2023 11:06 AM | 05:00 | 5.77 pH | 21.04 °C | 589.29 µS/cm | 2.52 mg/L | 2.43 NTU | 329.9 mV | 16.33 ft | 200.00 ml/min |
| 8/10/2023 11:11 AM | 10:00 | 5.83 pH | 21.12 °C | 598.29 µS/cm | 2.22 mg/L | 0.98 NTU | 483.8 mV | 16.33 ft | 200.00 ml/min |
| 8/10/2023 11:16 AM | 15:00 | 5.86 pH | 21.05 °C | 598.04 µS/cm | 2.06 mg/L | 0.70 NTU | 376.0 mV | 16.33 ft | 200.00 ml/min |
| 8/10/2023 11:21 AM | 20:00 | 5.88 pH | 20.93 °C | 596.14 µS/cm | 1.95 mg/L | 0.81 NTU | 524.3 mV | 16.33 ft | 200.00 ml/min |
| 8/10/2023 11:26 AM | 25:00 | 5.90 pH | 20.98 °C | 597.74 µS/cm | 1.87 mg/L | 0.96 NTU | 397.0 mV | 16.33 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|-------------|--------------|
| HAM-HGWC-11 | Grab |

Low-Flow Test Report:

Test Date / Time: 8/10/2023 9:39:42 AM

Project: GP-Plant Hammond

Operator Name: Elisabeth McDonnell

| | | |
|--|---|--|
| Location Name: HGWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 22.95 ft Total Depth: 35.00 ft Initial Depth to Water: 16.34 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 30.42 ft Estimated Total Volume Pumped: 18 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 m | Instrument Used: Aqua TROLL 400 Serial Number: 989630 |
|--|---|--|

Test Notes:

Seven bottles. Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 72 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/10/2023 9:39 AM | 00:00 | 7.10 pH | 19.92 °C | 846.54 µS/cm | 1.61 mg/L | 50.10 NTU | 18.9 mV | 16.35 ft | 200.00 ml/min |
| 8/10/2023 9:44 AM | 05:00 | 7.09 pH | 19.59 °C | 869.48 µS/cm | 1.21 mg/L | 34.20 NTU | 29.6 mV | 16.34 ft | 200.00 ml/min |
| 8/10/2023 9:49 AM | 10:00 | 7.09 pH | 19.54 °C | 871.17 µS/cm | 1.07 mg/L | 27.10 NTU | 31.8 mV | 16.35 ft | 200.00 ml/min |
| 8/10/2023 9:54 AM | 15:00 | 7.09 pH | 19.50 °C | 872.60 µS/cm | 0.74 mg/L | 17.70 NTU | 31.9 mV | 16.35 ft | 200.00 ml/min |
| 8/10/2023 9:59 AM | 20:00 | 7.09 pH | 19.49 °C | 872.53 µS/cm | 0.60 mg/L | 11.40 NTU | 33.5 mV | 16.35 ft | 200.00 ml/min |
| 8/10/2023 10:04 AM | 25:00 | 7.09 pH | 19.50 °C | 870.69 µS/cm | 0.83 mg/L | 9.37 NTU | 32.3 mV | 16.35 ft | 200.00 ml/min |
| 8/10/2023 10:09 AM | 30:00 | 7.09 pH | 19.55 °C | 870.93 µS/cm | 0.33 mg/L | 6.21 NTU | 33.3 mV | 16.34 ft | 200.00 ml/min |
| 8/10/2023 10:14 AM | 35:00 | 7.09 pH | 19.60 °C | 867.94 µS/cm | 0.72 mg/L | 5.95 NTU | 32.1 mV | 16.34 ft | 200.00 ml/min |
| 8/10/2023 10:19 AM | 40:00 | 7.09 pH | 19.57 °C | 887.64 µS/cm | 0.42 mg/L | 2.96 NTU | 32.1 mV | 16.34 ft | 200.00 ml/min |
| 8/10/2023 10:24 AM | 45:00 | 7.09 pH | 19.54 °C | 870.76 µS/cm | 0.52 mg/L | 3.74 NTU | 34.1 mV | 16.35 ft | 200.00 ml/min |
| 8/10/2023 10:29 AM | 50:00 | 7.09 pH | 19.54 °C | 866.99 µS/cm | 0.31 mg/L | 2.71 NTU | 34.5 mV | 16.35 ft | 200.00 ml/min |
| 8/10/2023 10:34 AM | 55:00 | 7.09 pH | 19.55 °C | 868.25 µS/cm | 0.63 mg/L | 2.68 NTU | 34.8 mV | 16.34 ft | 200.00 ml/min |
| 8/10/2023 10:39 AM | 01:00:00 | 7.08 pH | 19.51 °C | 868.58 µS/cm | 0.26 mg/L | 2.65 NTU | 35.0 mV | 16.34 ft | 200.00 ml/min |
| 8/10/2023 10:44 AM | 01:05:00 | 7.08 pH | 19.54 °C | 867.89 µS/cm | 0.75 mg/L | 2.22 NTU | 32.4 mV | 16.34 ft | 200.00 ml/min |
| 8/10/2023 10:49 AM | 01:10:00 | 7.08 pH | 19.59 °C | 863.53 µS/cm | 0.41 mg/L | 2.64 NTU | 32.2 mV | 16.35 ft | 200.00 ml/min |

| | | | | | | | | | |
|-----------------------|----------|---------|----------|--------------|-----------|----------|---------|----------|---------------|
| 8/10/2023 10:54 AM | 01:15:00 | 7.08 pH | 19.60 °C | 863.84 µS/cm | 0.21 mg/L | 0.90 NTU | 32.7 mV | 16.34 ft | 200.00 ml/min |
| 8/10/2023 10:59 AM | 01:20:00 | 7.09 pH | 19.65 °C | 865.70 µS/cm | 0.39 mg/L | 0.54 NTU | 32.6 mV | 16.34 ft | 200.00 ml/min |
| 8/10/2023 11:04 AM | 01:25:00 | 7.08 pH | 19.71 °C | 865.06 µS/cm | 0.35 mg/L | 0.63 NTU | 32.8 mV | 16.34 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|-------------|--------------|
| HAM-HGWC-12 | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/12/2023 11:30:53 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

| | | |
|--|--|--|
| Location Name: HGWC-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 35.15 ft Total Depth: 46.79 ft Initial Depth to Water: 27.41 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 41.79 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.01 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883553 |
|--|--|--|

Test Notes:

Seven bottles. Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 72 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/12/2023 11:30 AM | 00:00 | 6.89 pH | 22.62 °C | 967.80 µS/cm | 0.90 mg/L | 9.63 NTU | -50.7 mV | 27.42 ft | 200.00 ml/min |
| 8/12/2023 11:35 AM | 05:00 | 6.89 pH | 21.93 °C | 973.21 µS/cm | 0.53 mg/L | 6.50 NTU | -49.1 mV | 27.42 ft | 200.00 ml/min |
| 8/12/2023 11:40 AM | 10:00 | 6.90 pH | 21.64 °C | 970.99 µS/cm | 0.42 mg/L | 3.56 NTU | -69.0 mV | 27.42 ft | 200.00 ml/min |
| 8/12/2023 11:45 AM | 15:00 | 6.90 pH | 21.69 °C | 974.52 µS/cm | 0.32 mg/L | 3.04 NTU | -68.0 mV | 27.42 ft | 200.00 ml/min |
| 8/12/2023 11:50 AM | 20:00 | 6.90 pH | 21.66 °C | 974.94 µS/cm | 0.29 mg/L | 1.98 NTU | -66.0 mV | 27.42 ft | 200.00 ml/min |
| 8/12/2023 11:55 AM | 25:00 | 6.90 pH | 21.60 °C | 974.67 µS/cm | 0.26 mg/L | 1.89 NTU | -65.8 mV | 27.42 ft | 200.00 ml/min |
| 8/12/2023 12:00 PM | 30:00 | 6.89 pH | 21.60 °C | 975.26 µS/cm | 0.23 mg/L | 1.83 NTU | -44.2 mV | 27.42 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|-------------|--------------|
| HAM-HGWC-13 | Grab |

Low-Flow Test Report:

Test Date / Time: 8/10/2023 11:07:01 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|---|--|--|
| Location Name: MW-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 20.84 ft Total Depth: 31.08 ft Initial Depth to Water: 17.18 ft | Pump Type: bladder Tubing Type: Poly Pump Intake From TOC: 25.84 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.17 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|---|--|--|

Test Notes:

Seven bottles. Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 72 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/10/2023 11:07 AM | 00:00 | 6.32 pH | 19.63 °C | 610.22 µS/cm | 1.29 mg/L | 2.67 NTU | 107.4 mV | 17.35 ft | 200.00 ml/min |
| 8/10/2023 11:12 AM | 05:00 | 6.28 pH | 19.32 °C | 612.74 µS/cm | 0.94 mg/L | 2.11 NTU | 98.3 mV | 17.35 ft | 200.00 ml/min |
| 8/10/2023 11:17 AM | 10:00 | 6.29 pH | 19.28 °C | 625.05 µS/cm | 0.84 mg/L | 2.01 NTU | 126.5 mV | 17.35 ft | 200.00 ml/min |
| 8/10/2023 11:22 AM | 15:00 | 6.29 pH | 19.34 °C | 627.58 µS/cm | 0.75 mg/L | 1.95 NTU | 125.1 mV | 17.35 ft | 200.00 ml/min |
| 8/10/2023 11:27 AM | 20:00 | 6.29 pH | 19.41 °C | 627.90 µS/cm | 0.68 mg/L | 2.44 NTU | 91.2 mV | 17.35 ft | 200.00 ml/min |
| 8/10/2023 11:32 AM | 25:00 | 6.29 pH | 19.35 °C | 631.18 µS/cm | 0.63 mg/L | 1.89 NTU | 120.5 mV | 17.35 ft | 200.00 ml/min |
| 8/10/2023 11:37 AM | 30:00 | 6.29 pH | 19.41 °C | 631.56 µS/cm | 0.61 mg/L | 1.51 NTU | 89.4 mV | 17.35 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-MW-5 | Grab |

Low-Flow Test Report:

Test Date / Time: 8/10/2023 1:46:45 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|---|--|--|
| Location Name: MW-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 22.96 ft Total Depth: 37.92 ft Initial Depth to Water: 17.52 ft | Pump Type: bladder Tubing Type: Poly Pump Intake From TOC: 27.96 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.02 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|---|--|--|

Test Notes:

Seven bottles. Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 72 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/10/2023 1:46 PM | 00:00 | 6.89 pH | 22.11 °C | 941.26 µS/cm | 0.68 mg/L | 41.20 NTU | -19.9 mV | 17.54 ft | 200.00 ml/min |
| 8/10/2023 1:51 PM | 05:00 | 6.86 pH | 21.64 °C | 932.16 µS/cm | 0.33 mg/L | 22.80 NTU | 18.2 mV | 17.54 ft | 200.00 ml/min |
| 8/10/2023 1:56 PM | 10:00 | 6.86 pH | 21.82 °C | 931.03 µS/cm | 0.49 mg/L | 11.96 NTU | 23.3 mV | 17.54 ft | 200.00 ml/min |
| 8/10/2023 2:01 PM | 15:00 | 6.86 pH | 21.56 °C | 929.99 µS/cm | 0.38 mg/L | 8.02 NTU | 23.1 mV | 17.54 ft | 200.00 ml/min |
| 8/10/2023 2:06 PM | 20:00 | 6.85 pH | 21.60 °C | 931.59 µS/cm | 0.25 mg/L | 6.53 NTU | 25.8 mV | 17.54 ft | 200.00 ml/min |
| 8/10/2023 2:11 PM | 25:00 | 6.85 pH | 21.82 °C | 930.54 µS/cm | 0.20 mg/L | 5.04 NTU | 27.9 mV | 17.54 ft | 200.00 ml/min |
| 8/10/2023 2:16 PM | 30:00 | 6.85 pH | 21.76 °C | 929.34 µS/cm | 0.18 mg/L | 3.68 NTU | 29.1 mV | 17.54 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-MW-6 | Grab |

Low-Flow Test Report:

Test Date / Time: 8/10/2023 12:21:37 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|--|---|--|
| Location Name: MW-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 16.89 ft Total Depth: 26.60 ft Initial Depth to Water: 13.5 ft | Pump Type: bladder Tubing Type: Poly Pump Intake From TOC: 21.89 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|--|---|--|

Test Notes:

Seven bottles. Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 72 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/10/2023 12:21 PM | 00:00 | 6.78 pH | 20.75 °C | 400.00 µS/cm | 2.42 mg/L | 2.39 NTU | 84.6 mV | 13.50 ft | 200.00 ml/min |
| 8/10/2023 12:26 PM | 05:00 | 6.83 pH | 19.41 °C | 439.69 µS/cm | 1.09 mg/L | 3.12 NTU | 63.8 mV | 13.50 ft | 200.00 ml/min |
| 8/10/2023 12:31 PM | 10:00 | 6.83 pH | 19.36 °C | 442.85 µS/cm | 0.92 mg/L | 2.28 NTU | 77.7 mV | 13.50 ft | 200.00 ml/min |
| 8/10/2023 12:36 PM | 15:00 | 6.84 pH | 19.37 °C | 447.80 µS/cm | 0.80 mg/L | 1.99 NTU | 75.5 mV | 13.50 ft | 200.00 ml/min |
| 8/10/2023 12:41 PM | 20:00 | 6.85 pH | 19.41 °C | 450.98 µS/cm | 0.77 mg/L | 1.72 NTU | 58.0 mV | 13.50 ft | 200.00 ml/min |
| 8/10/2023 12:46 PM | 25:00 | 6.85 pH | 19.40 °C | 452.20 µS/cm | 0.73 mg/L | 2.33 NTU | 73.5 mV | 13.50 ft | 200.00 ml/min |
| 8/10/2023 12:51 PM | 30:00 | 6.85 pH | 19.44 °C | 452.45 µS/cm | 0.67 mg/L | 1.57 NTU | 73.8 mV | 13.50 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-MW-7 | Grab |

Low-Flow Test Report:

Test Date / Time: 8/10/2023 2:21:49 PM

Project: GP-Plant Hammond

Operator Name: Elisabeth McDonnell

| | | |
|---|---|--|
| Location Name: MW-19 Well Diameter: 15.1 ft Casing Type: PVC Screen Length: 10 ft Top of Screen: 22.95 ft Total Depth: 30.45 ft Initial Depth to Water: 15.10 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 24.5 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 m | Instrument Used: Aqua TROLL 400 Serial Number: 989630 |
|---|---|--|

Test Notes:

Seven bottles. Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 72 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/10/2023 2:21 PM | 00:00 | 6.42 pH | 22.17 °C | 709.20 µS/cm | 1.53 mg/L | 0.90 NTU | 79.9 mV | 15.13 ft | 200.00 ml/min |
| 8/10/2023 2:26 PM | 05:00 | 6.35 pH | 22.10 °C | 683.39 µS/cm | 1.44 mg/L | 2.85 NTU | 73.3 mV | 15.13 ft | 200.00 ml/min |
| 8/10/2023 2:31 PM | 10:00 | 6.37 pH | 22.13 °C | 668.47 µS/cm | 1.30 mg/L | 2.02 NTU | 70.2 mV | 15.10 ft | 200.00 ml/min |
| 8/10/2023 2:36 PM | 15:00 | 6.37 pH | 22.35 °C | 699.61 µS/cm | 1.28 mg/L | 2.22 NTU | 69.0 mV | 15.10 ft | 200.00 ml/min |
| 8/10/2023 2:41 PM | 20:00 | 6.36 pH | 22.44 °C | 610.07 µS/cm | 1.29 mg/L | 2.51 NTU | 68.2 mV | 15.10 ft | 200.00 ml/min |
| 8/10/2023 2:46 PM | 25:00 | 6.36 pH | 22.44 °C | 691.24 µS/cm | 1.17 mg/L | 3.32 NTU | 92.5 mV | 15.10 ft | 200.00 ml/min |
| 8/10/2023 2:51 PM | 30:00 | 6.36 pH | 22.55 °C | 690.42 µS/cm | 1.19 mg/L | 2.93 NTU | 68.2 mV | 15.10 ft | 200.00 ml/min |
| 8/10/2023 2:56 PM | 35:00 | 6.37 pH | 22.53 °C | 696.32 µS/cm | 1.32 mg/L | 1.61 NTU | 67.0 mV | 15.10 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-MW-19 | Grab |

Low-Flow Test Report:

Test Date / Time: 8/10/2023 9:44:27 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|---|--|--|
| Location Name: MW-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 24.37 ft Total Depth: 34.47 ft Initial Depth to Water: 15.1 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 29.37 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.3 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|---|--|--|

Test Notes:

Seven bottles. Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 72 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/10/2023 9:44 AM | 00:00 | 6.61 pH | 19.23 °C | 617.81 µS/cm | 1.01 mg/L | 24.00 NTU | -13.8 mV | 15.40 ft | 200.00 ml/min |
| 8/10/2023 9:49 AM | 05:00 | 6.71 pH | 19.13 °C | 647.97 µS/cm | 0.46 mg/L | 11.75 NTU | -33.2 mV | 15.40 ft | 200.00 ml/min |
| 8/10/2023 9:54 AM | 10:00 | 6.77 pH | 19.14 °C | 664.43 µS/cm | 0.22 mg/L | 10.00 NTU | -41.9 mV | 15.40 ft | 200.00 ml/min |
| 8/10/2023 9:59 AM | 15:00 | 6.81 pH | 19.11 °C | 674.09 µS/cm | 0.18 mg/L | 4.42 NTU | -57.8 mV | 15.40 ft | 200.00 ml/min |
| 8/10/2023 10:04 AM | 20:00 | 6.84 pH | 19.10 °C | 679.70 µS/cm | 0.17 mg/L | 3.81 NTU | -47.9 mV | 15.40 ft | 200.00 ml/min |
| 8/10/2023 10:09 AM | 25:00 | 6.85 pH | 19.13 °C | 682.37 µS/cm | 0.16 mg/L | 3.37 NTU | -48.4 mV | 15.40 ft | 200.00 ml/min |
| 8/10/2023 10:14 AM | 30:00 | 6.86 pH | 19.14 °C | 685.88 µS/cm | 0.15 mg/L | 2.77 NTU | -61.6 mV | 15.40 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-MW-20 | Grab |

Low-Flow Test Report:

Test Date / Time: 8/12/2023 9:20:07 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

| | | |
|---|--|--|
| Location Name: MW-24D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 62.77 ft Total Depth: 73.41 ft Initial Depth to Water: 29.87 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 68.41 ft Estimated Total Volume Pumped: 11 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883553 |
|---|--|--|

Test Notes:

Seven bottles. Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 72 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/12/2023 9:20 AM | 00:00 | 7.58 pH | 21.43 °C | 604.25 µS/cm | 2.52 mg/L | 3.21 NTU | 80.0 mV | 29.87 ft | 200.00 ml/min |
| 8/12/2023 9:25 AM | 05:00 | 7.60 pH | 21.22 °C | 609.01 µS/cm | 1.43 mg/L | 4.85 NTU | 55.5 mV | 29.87 ft | 200.00 ml/min |
| 8/12/2023 9:30 AM | 10:00 | 7.60 pH | 21.07 °C | 608.19 µS/cm | 1.02 mg/L | 4.22 NTU | 59.7 mV | 29.87 ft | 200.00 ml/min |
| 8/12/2023 9:35 AM | 15:00 | 7.60 pH | 20.88 °C | 609.62 µS/cm | 0.72 mg/L | 2.77 NTU | 56.1 mV | 29.87 ft | 200.00 ml/min |
| 8/12/2023 9:40 AM | 20:00 | 7.61 pH | 20.69 °C | 610.02 µS/cm | 0.61 mg/L | 3.09 NTU | 53.9 mV | 29.87 ft | 200.00 ml/min |
| 8/12/2023 9:45 AM | 25:00 | 7.61 pH | 20.66 °C | 609.94 µS/cm | 0.55 mg/L | 5.39 NTU | 52.1 mV | 29.87 ft | 200.00 ml/min |
| 8/12/2023 9:50 AM | 30:00 | 7.61 pH | 20.53 °C | 610.24 µS/cm | 0.45 mg/L | 5.23 NTU | 51.2 mV | 29.87 ft | 200.00 ml/min |
| 8/12/2023 9:55 AM | 35:00 | 7.61 pH | 20.55 °C | 610.14 µS/cm | 0.42 mg/L | 6.80 NTU | 50.3 mV | 29.87 ft | 200.00 ml/min |
| 8/12/2023 10:00 AM | 40:00 | 7.61 pH | 20.60 °C | 609.89 µS/cm | 0.39 mg/L | 5.59 NTU | 43.7 mV | 29.87 ft | 200.00 ml/min |
| 8/12/2023 10:05 AM | 45:00 | 7.61 pH | 20.40 °C | 609.72 µS/cm | 0.34 mg/L | 5.82 NTU | 48.9 mV | 29.87 ft | 200.00 ml/min |
| 8/12/2023 10:10 AM | 50:00 | 7.61 pH | 20.35 °C | 609.29 µS/cm | 0.32 mg/L | 4.71 NTU | 43.1 mV | 29.87 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|----------------|--------------|
| HAM-MW-24D | Grab |
| HAM-AP-1-FD-01 | Grab |

Low-Flow Test Report:

Test Date / Time: 8/10/2023 12:01:18 PM

Project: GP-Plant Hammond

Operator Name: Elisabeth McDonnell

| | | |
|---|--|--|
| Location Name: MW-25D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.21 ft Total Depth: 63.20 ft Initial Depth to Water: 16.10 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 58.21 ft Estimated Total Volume Pumped: 10.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 5.09 m | Instrument Used: Aqua TROLL 400 Serial Number: 989630 |
|---|--|--|

Test Notes:

Seven bottles. Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 72 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/10/2023 12:01 PM | 00:00 | 7.55 pH | 20.89 °C | 521.42 µS/cm | 2.95 mg/L | 0.90 NTU | -90.4 mV | 17.65 ft | 200.00 ml/min |
| 8/10/2023 12:06 PM | 05:00 | 7.62 pH | 20.39 °C | 523.17 µS/cm | 1.45 mg/L | 0.23 NTU | -98.4 mV | 18.49 ft | 200.00 ml/min |
| 8/10/2023 12:11 PM | 10:00 | 7.65 pH | 20.31 °C | 517.96 µS/cm | 1.39 mg/L | 0.00 NTU | -104.7 mV | 19.40 ft | 200.00 ml/min |
| 8/10/2023 12:16 PM | 15:00 | 7.67 pH | 20.21 °C | 524.16 µS/cm | 1.07 mg/L | 0.00 NTU | -107.4 mV | 20.07 ft | 200.00 ml/min |
| 8/10/2023 12:21 PM | 20:00 | 7.68 pH | 20.14 °C | 518.13 µS/cm | 1.23 mg/L | 0.00 NTU | -107.9 mV | 20.45 ft | 200.00 ml/min |
| 8/10/2023 12:26 PM | 25:00 | 7.68 pH | 20.06 °C | 514.33 µS/cm | 1.10 mg/L | 0.30 NTU | -109.9 mV | 20.86 ft | 200.00 ml/min |
| 8/10/2023 12:31 PM | 30:00 | 7.69 pH | 20.21 °C | 511.31 µS/cm | 1.38 mg/L | 0.00 NTU | -143.9 mV | 20.96 ft | 160.00 ml/min |
| 8/10/2023 12:36 PM | 35:00 | 7.69 pH | 20.30 °C | 426.94 µS/cm | 1.09 mg/L | 0.02 NTU | -113.4 mV | 21.05 ft | 160.00 ml/min |
| 8/10/2023 12:41 PM | 40:00 | 7.71 pH | 20.39 °C | 505.22 µS/cm | 1.34 mg/L | 0.08 NTU | -114.6 mV | 21.10 ft | 160.00 ml/min |
| 8/10/2023 12:46 PM | 45:00 | 7.71 pH | 20.34 °C | 502.24 µS/cm | 1.22 mg/L | 0.00 NTU | -115.7 mV | 21.10 ft | 160.00 ml/min |
| 8/10/2023 12:51 PM | 50:00 | 7.72 pH | 20.39 °C | 518.89 µS/cm | 1.18 mg/L | 0.00 NTU | -117.2 mV | 21.18 ft | 160.00 ml/min |
| 8/10/2023 12:52 PM | 51:12 | 7.73 pH | 20.41 °C | 499.21 µS/cm | 1.08 mg/L | 0.03 NTU | -116.8 mV | 21.19 ft | 160.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

HAM-MW-25D

Grab

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/11/2023 4:19:32 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|--|--|--|
| Location Name: MW-26D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 68.11 ft Total Depth: 77.80 ft Initial Depth to Water: 15.7 ft | Pump Type: bladder Tubing Type: Poly Pump Intake From TOC: 73.11 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.19 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|--|--|--|

Test Notes:

Seven bottles. Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 70-80 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/11/2023 4:19 PM | 00:00 | 7.41 pH | 21.86 °C | 895.80 µS/cm | 0.72 mg/L | 3.08 NTU | -120.3 mV | 15.89 ft | 200.00 ml/min |
| 8/11/2023 4:24 PM | 05:00 | 7.32 pH | 21.17 °C | 861.19 µS/cm | 0.28 mg/L | 3.85 NTU | -54.3 mV | 15.89 ft | 200.00 ml/min |
| 8/11/2023 4:29 PM | 10:00 | 7.28 pH | 21.12 °C | 856.24 µS/cm | 0.23 mg/L | 4.28 NTU | -33.5 mV | 15.89 ft | 200.00 ml/min |
| 8/11/2023 4:34 PM | 15:00 | 7.25 pH | 21.39 °C | 859.30 µS/cm | 0.14 mg/L | 3.86 NTU | -24.0 mV | 15.89 ft | 200.00 ml/min |
| 8/11/2023 4:39 PM | 20:00 | 7.23 pH | 21.23 °C | 869.50 µS/cm | 0.25 mg/L | 3.34 NTU | -19.2 mV | 15.89 ft | 200.00 ml/min |
| 8/11/2023 4:44 PM | 25:00 | 7.21 pH | 21.01 °C | 876.24 µS/cm | 0.16 mg/L | 15.89 NTU | -36.3 mV | 15.89 ft | 200.00 ml/min |
| 8/11/2023 4:49 PM | 30:00 | 7.20 pH | 21.28 °C | 881.85 µS/cm | 0.24 mg/L | 3.97 NTU | -33.5 mV | 15.89 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| MW-26D | Grab |

Low-Flow Test Report:

Test Date / Time: 8/12/2023 10:20:10 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

| | | |
|---|--|--|
| Location Name: MW-27D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.19 ft Total Depth: 63.21 ft Initial Depth to Water: 13.91 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 58.19 ft Estimated Total Volume Pumped: 42.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 39.37 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883530 |
|---|--|--|

Test Notes:

Seven bottles. Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 85 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 10 | +/- 10 | +/- 0.3 | |
| 8/12/2023 10:20 AM | 00:00 | 7.67 pH | 20.13 °C | 404.73 µS/cm | 1.31 mg/L | 2.91 NTU | -75.7 mV | 18.21 ft | 250.00 ml/min |
| 8/12/2023 10:25 AM | 05:00 | 7.68 pH | 20.09 °C | 397.17 µS/cm | 1.98 mg/L | 2.73 NTU | 209.5 mV | 19.85 ft | 250.00 ml/min |
| 8/12/2023 10:30 AM | 10:00 | 7.69 pH | 20.08 °C | 392.51 µS/cm | 2.26 mg/L | 4.88 NTU | 329.8 mV | 21.40 ft | 250.00 ml/min |
| 8/12/2023 10:35 AM | 15:00 | 7.69 pH | 20.15 °C | 392.93 µS/cm | 2.42 mg/L | 3.67 NTU | 471.5 mV | 23.03 ft | 250.00 ml/min |
| 8/12/2023 10:40 AM | 20:00 | 7.70 pH | 20.12 °C | 388.44 µS/cm | 2.50 mg/L | 4.93 NTU | 400.6 mV | 24.55 ft | 250.00 ml/min |
| 8/12/2023 10:45 AM | 25:00 | 7.70 pH | 20.09 °C | 389.29 µS/cm | 2.52 mg/L | 6.19 NTU | 493.7 mV | 26.08 ft | 250.00 ml/min |
| 8/12/2023 10:50 AM | 30:00 | 7.70 pH | 20.08 °C | 390.13 µS/cm | 2.53 mg/L | 6.38 NTU | 498.3 mV | 27.58 ft | 250.00 ml/min |
| 8/12/2023 10:55 AM | 35:00 | 7.70 pH | 20.04 °C | 394.51 µS/cm | 2.52 mg/L | 3.88 NTU | 497.4 mV | 29.10 ft | 250.00 ml/min |
| 8/12/2023 11:00 AM | 40:00 | 7.71 pH | 20.13 °C | 395.07 µS/cm | 2.50 mg/L | 7.51 NTU | 430.0 mV | 30.47 ft | 250.00 ml/min |
| 8/12/2023 11:05 AM | 45:00 | 7.70 pH | 20.13 °C | 395.21 µS/cm | 2.46 mg/L | 7.68 NTU | 485.3 mV | 31.97 ft | 250.00 ml/min |
| 8/12/2023 11:10 AM | 50:00 | 7.71 pH | 20.14 °C | 395.19 µS/cm | 2.44 mg/L | 7.66 NTU | 480.7 mV | 33.24 ft | 250.00 ml/min |
| 8/12/2023 11:15 AM | 55:00 | 7.71 pH | 20.22 °C | 395.72 µS/cm | 2.41 mg/L | 8.38 NTU | 475.0 mV | 34.64 ft | 250.00 ml/min |
| 8/12/2023 11:20 AM | 01:00:00 | 7.71 pH | 20.26 °C | 395.82 µS/cm | 2.37 mg/L | 8.38 NTU | 455.8 mV | 36.04 ft | 250.00 ml/min |

| | | | | | | | | | |
|-----------------------|----------|---------|----------|--------------|-----------|----------|----------|----------|---------------|
| 8/12/2023 11:25 AM | 01:05:00 | 7.71 pH | 20.27 °C | 397.91 µS/cm | 2.33 mg/L | 8.90 NTU | 443.7 mV | 37.42 ft | 250.00 ml/min |
| 8/12/2023 11:30 AM | 01:10:00 | 7.71 pH | 20.17 °C | 395.13 µS/cm | 2.30 mg/L | 6.16 NTU | 437.1 mV | 38.68 ft | 250.00 ml/min |
| 8/12/2023 11:35 AM | 01:15:00 | 7.71 pH | 20.25 °C | 397.64 µS/cm | 2.29 mg/L | 5.88 NTU | 440.7 mV | 39.88 ft | 250.00 ml/min |
| 8/12/2023 11:40 AM | 01:20:00 | 7.71 pH | 20.30 °C | 398.35 µS/cm | 2.26 mg/L | 6.16 NTU | 428.2 mV | 41.13 ft | 250.00 ml/min |
| 8/12/2023 11:45 AM | 01:25:00 | 7.69 pH | 20.27 °C | 398.30 µS/cm | 2.27 mg/L | 5.30 NTU | 422.4 mV | 42.35 ft | 250.00 ml/min |
| 8/12/2023 11:50 AM | 01:30:00 | 7.70 pH | 20.33 °C | 398.37 µS/cm | 2.31 mg/L | 5.56 NTU | 413.1 mV | 43.58 ft | 250.00 ml/min |
| 8/12/2023 11:55 AM | 01:35:00 | 7.71 pH | 20.31 °C | 399.54 µS/cm | 2.36 mg/L | 4.93 NTU | 397.2 mV | 44.76 ft | 250.00 ml/min |
| 8/12/2023 12:00 PM | 01:40:00 | 7.71 pH | 20.29 °C | 400.02 µS/cm | 2.40 mg/L | 3.67 NTU | 383.2 mV | 45.84 ft | 250.00 ml/min |
| 8/12/2023 12:05 PM | 01:45:00 | 7.72 pH | 20.31 °C | 400.98 µS/cm | 2.43 mg/L | 3.56 NTU | 379.7 mV | 46.98 ft | 250.00 ml/min |
| 8/12/2023 12:10 PM | 01:50:00 | 7.73 pH | 20.40 °C | 400.77 µS/cm | 2.47 mg/L | 2.11 NTU | 373.8 mV | 48.17 ft | 250.00 ml/min |
| 8/12/2023 12:15 PM | 01:55:00 | 7.73 pH | 21.93 °C | 405.11 µS/cm | 2.43 mg/L | 1.87 NTU | 357.7 mV | 48.49 ft | 250.00 ml/min |
| 8/12/2023 12:20 PM | 02:00:00 | 7.72 pH | 22.02 °C | 405.32 µS/cm | 2.26 mg/L | 1.61 NTU | 336.9 mV | 48.75 ft | 250.00 ml/min |
| 8/12/2023 12:25 PM | 02:05:00 | 7.72 pH | 22.40 °C | 410.77 µS/cm | 2.08 mg/L | 1.04 NTU | 312.2 mV | 48.96 ft | 250.00 ml/min |
| 8/12/2023 12:30 PM | 02:10:00 | 7.73 pH | 22.48 °C | 409.71 µS/cm | 1.90 mg/L | 1.61 NTU | 286.0 mV | 49.19 ft | 250.00 ml/min |
| 8/12/2023 12:35 PM | 02:15:00 | 7.70 pH | 23.21 °C | 421.78 µS/cm | 1.87 mg/L | 2.91 NTU | 302.7 mV | 49.23 ft | 250.00 ml/min |
| 8/12/2023 12:40 PM | 02:20:00 | 7.73 pH | 22.36 °C | 406.40 µS/cm | 1.62 mg/L | 2.08 NTU | 228.8 mV | 49.52 ft | 250.00 ml/min |
| 8/12/2023 12:45 PM | 02:25:00 | 7.74 pH | 22.46 °C | 408.01 µS/cm | 1.62 mg/L | 1.13 NTU | 194.7 mV | 49.76 ft | 250.00 ml/min |
| 8/12/2023 12:50 PM | 02:30:00 | 7.74 pH | 22.52 °C | 408.88 µS/cm | 1.57 mg/L | 1.67 NTU | 164.8 mV | 49.99 ft | 250.00 ml/min |
| 8/12/2023 12:55 PM | 02:35:00 | 7.74 pH | 22.63 °C | 407.41 µS/cm | 1.56 mg/L | 1.30 NTU | 148.7 mV | 50.21 ft | 250.00 ml/min |
| 8/12/2023 1:00 PM | 02:40:00 | 7.75 pH | 22.84 °C | 403.66 µS/cm | 1.53 mg/L | 6.64 NTU | 124.2 mV | 50.41 ft | 250.00 ml/min |
| 8/12/2023 1:05 PM | 02:45:00 | 7.75 pH | 22.74 °C | 402.24 µS/cm | 1.50 mg/L | 0.52 NTU | 114.6 mV | 50.62 ft | 250.00 ml/min |
| 8/12/2023 1:10 PM | 02:50:00 | 7.75 pH | 22.42 °C | 400.56 µS/cm | 1.49 mg/L | 3.80 NTU | 106.4 mV | 50.85 ft | 250.00 ml/min |
| 8/12/2023 1:15 PM | 02:55:00 | 7.73 pH | 22.65 °C | 399.18 µS/cm | 1.50 mg/L | 0.63 NTU | 94.0 mV | 51.06 ft | 250.00 ml/min |
| 8/12/2023 1:20 PM | 03:00:00 | 7.74 pH | 22.63 °C | 401.43 µS/cm | 1.50 mg/L | 0.56 NTU | 96.2 mV | 51.29 ft | 250.00 ml/min |
| 8/12/2023 1:25 PM | 03:05:00 | 7.74 pH | 22.67 °C | 397.68 µS/cm | 1.50 mg/L | 0.41 NTU | 103.6 mV | 51.47 ft | 250.00 ml/min |
| 8/12/2023 1:30 PM | 03:10:00 | 7.75 pH | 22.60 °C | 400.92 µS/cm | 1.49 mg/L | 0.80 NTU | 84.5 mV | 51.68 ft | 250.00 ml/min |
| 8/12/2023 1:35 PM | 03:15:00 | 7.76 pH | 22.48 °C | 401.34 µS/cm | 1.48 mg/L | 4.45 NTU | 59.0 mV | 51.86 ft | 250.00 ml/min |
| 8/12/2023 1:40 PM | 03:20:00 | 7.77 pH | 22.40 °C | 400.26 µS/cm | 1.49 mg/L | 0.74 NTU | 61.7 mV | 52.08 ft | 250.00 ml/min |
| 8/12/2023 1:45 PM | 03:25:00 | 7.76 pH | 22.39 °C | 406.86 µS/cm | 1.50 mg/L | 0.56 NTU | 46.3 mV | 52.28 ft | 250.00 ml/min |

| | | | | | | | | | |
|----------------------|----------|---------|----------|--------------|-----------|----------|---------|----------|---------------|
| 8/12/2023 1:50 PM | 03:30:00 | 7.76 pH | 22.27 °C | 406.24 µS/cm | 1.50 mg/L | 1.09 NTU | 52.9 mV | 52.47 ft | 250.00 ml/min |
| 8/12/2023 1:55 PM | 03:35:00 | 7.78 pH | 22.27 °C | 405.61 µS/cm | 1.50 mg/L | 0.82 NTU | 48.3 mV | 52.68 ft | 250.00 ml/min |
| 8/12/2023 2:00 PM | 03:40:00 | 7.78 pH | 22.19 °C | 405.20 µS/cm | 1.49 mg/L | 1.35 NTU | 36.6 mV | 52.88 ft | 250.00 ml/min |
| 8/12/2023 2:05 PM | 03:45:00 | 7.79 pH | 22.32 °C | 405.19 µS/cm | 1.49 mg/L | 3.86 NTU | 24.4 mV | 53.08 ft | 250.00 ml/min |
| 8/12/2023 2:10 PM | 03:50:00 | 7.79 pH | 22.27 °C | 404.40 µS/cm | 1.50 mg/L | 0.67 NTU | 34.3 mV | 53.25 ft | 250.00 ml/min |
| 8/12/2023 2:15 PM | 03:55:00 | 7.80 pH | 22.36 °C | 403.27 µS/cm | 1.49 mg/L | 0.80 NTU | 30.1 mV | 53.28 ft | 250.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-MW-27D | Grab |

Low-Flow Test Report:

Test Date / Time: 8/11/2023 2:39:02 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|---|--|--|
| Location Name: MW-28D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 48.21 ft Total Depth: 58.18 ft Initial Depth to Water: 13.05 ft | Pump Type: bladder Tubing Type: Poly Pump Intake From TOC: 53.12 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.05 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|---|--|--|

Test Notes:

Seven bottles. Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 90 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/11/2023 2:39 PM | 00:00 | 7.45 pH | 22.87 °C | 509.88 µS/cm | 0.07 mg/L | 11.94 NTU | -119.6 mV | 13.20 ft | 200.00 ml/min |
| 8/11/2023 2:44 PM | 05:00 | 7.48 pH | 21.82 °C | 508.51 µS/cm | 0.04 mg/L | 12.92 NTU | -145.5 mV | 13.10 ft | 200.00 ml/min |
| 8/11/2023 2:49 PM | 10:00 | 7.49 pH | 21.54 °C | 507.42 µS/cm | 0.04 mg/L | 11.76 NTU | -189.3 mV | 13.10 ft | 200.00 ml/min |
| 8/11/2023 2:54 PM | 15:00 | 7.50 pH | 21.54 °C | 505.88 µS/cm | 0.06 mg/L | 7.96 NTU | -203.5 mV | 13.10 ft | 200.00 ml/min |
| 8/11/2023 2:59 PM | 20:00 | 7.50 pH | 21.40 °C | 504.97 µS/cm | 0.08 mg/L | 6.81 NTU | -216.6 mV | 13.10 ft | 200.00 ml/min |
| 8/11/2023 3:04 PM | 25:00 | 7.50 pH | 21.60 °C | 505.99 µS/cm | 0.11 mg/L | 5.65 NTU | -229.2 mV | 13.10 ft | 200.00 ml/min |
| 8/11/2023 3:09 PM | 30:00 | 7.50 pH | 21.50 °C | 506.91 µS/cm | 0.12 mg/L | 4.66 NTU | -240.8 mV | 13.10 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-MW-28D | Grab |

Low-Flow Test Report:

Test Date / Time: 8/10/2023 3:39:40 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|---|--|--|
| Location Name: MW-29 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18.25 ft Total Depth: 28.25 ft Initial Depth to Water: 11.3 ft | Pump Type: bladder Tubing Type: Poly Pump Intake From TOC: 28.25 ft Estimated Total Volume Pumped: 6516.667 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.05 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|---|--|--|

Test Notes:

Seven bottles. Full app. III and IV and Major Ions.

Weather Conditions:

Sunny, 85 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/10/2023 3:39 PM | 00:00 | 7.05 pH | 21.77 °C | 828.28 µS/cm | 0.46 mg/L | 5.99 NTU | 37.3 mV | 11.35 ft | 200.00 ml/min |
| 8/10/2023 3:44 PM | 05:00 | 7.07 pH | 21.21 °C | 834.37 µS/cm | 0.26 mg/L | 4.43 NTU | 36.5 mV | 11.35 ft | 200.00 ml/min |
| 8/10/2023 3:49 PM | 10:00 | 7.06 pH | 21.19 °C | 829.64 µS/cm | 0.24 mg/L | 4.31 NTU | 41.2 mV | 11.35 ft | 200.00 ml/min |
| 8/10/2023 3:54 PM | 15:00 | 7.06 pH | 21.24 °C | 833.30 µS/cm | 0.21 mg/L | 2.33 NTU | 42.2 mV | 11.35 ft | 200.00 ml/min |
| 8/10/2023 3:59 PM | 20:00 | 7.06 pH | 21.15 °C | 831.08 µS/cm | 0.22 mg/L | 1.90 NTU | 42.2 mV | 11.35 ft | 200.00 ml/min |
| 8/10/2023 4:04 PM | 25:00 | 7.06 pH | 21.25 °C | 831.79 µS/cm | 0.16 mg/L | 2.48 NTU | 42.0 mV | 11.35 ft | 200.00 ml/min |
| 8/10/2023 4:09 PM | 30:00 | 7.06 pH | 21.27 °C | 830.16 µS/cm | 0.15 mg/L | 1.93 NTU | 42.5 mV | 11.35 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-MW-29 | Grab |

CALIBRATION REPORTS

January 2023

EQUIPMENT CALIBRATION LOG

Field Technician Anthony S. Date 1/23/2023 Time (start) 1540 Time (finish) 1600
 smarTroll SN 883533 Turbidity Meter Type LaMotte 2020we SN 7007-1416
 Weather Conditions 45°F, Partly cloudy Facility and Unit Hammond Project No. GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-----------------------|---|----------|
| Specific Conductance (µS/cm) | 22250153 | 13.95 | 4490 | 3729.1 | 4490 | +/- 5 % | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (4) | 11/2023 | 14.13 | 4.00 | 3.95 | 4.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (4) check | | | 4.00 | | | +/- 0.1 SU | Yes No | |
| pH (7) | 2216893 11/2023 | 14.09 | 7.00 | 7.34 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (7) check | | | 7.00 | | | +/- 0.1 SU | Yes No | |
| pH (10) | 21320202 12/2023 | 14.40 | 10.00 | 11.09 | 10.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (10) check | | | 10.00 | | | +/- 0.1 SU | Yes No | |
| ORP (mV) | 21390144 11/2023 | 14.22 | 228 | 246.4 | 228.0 | +/- 20mV | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 105.08 | 100.0 | +/- 6 % saturation | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 0 NTU | | | 0 | 0.00 | — | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 1 NTU | | | 1.00 | 0.44 | 0.71 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 10 NTU | | | 10.00 | 11.07 | 10.06 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |

EQUIPMENT CALIBRATION LOG

Field Technician: C. CRAIG

Date: 1/23/23

Time (start): 1455

Time (finish): 1520

smarTroll SN: 966090

Turbidity Meter Type: LaMotte 2020we

SN: 7009

Weather Conditions: Sunny 50°F

Facility and Unit: Hammond

Project No: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-----------------------|--|------------|
| Specific Conductance (µS/cm) | 22250153 11/23 | 15.74 | 4490 | 4284 | 4490 | +/- 5 % | <input checked="" type="checkbox"/> Yes No | |
| pH (4) | | | 4.00 | 4.06 | 4.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes No | |
| Mid-Day pH (4) check | | | 4.00 | | | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes No | |
| pH (7) | 2216893 11/23 | 16.55 | 7.00 | 7.37 | 7.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes No | |
| Mid-Day pH (7) check | | | | | 7.00 | | | +/- 0.1 SU |
| pH (10) | 212320202 12/23 | 16.96 | 10.00 | 10.99 | 10 | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes No | |
| Mid-Day pH (10) check | | | | | 10.00 | | | +/- 0.1 SU |
| ORP (mV) | 21390144 11/23 | 16.72 | 228 | 243 | 228 | +/- 20mV | <input checked="" type="checkbox"/> Yes No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 101.05 | 100 | +/- 6 % saturation | <input checked="" type="checkbox"/> Yes No | |
| Turbidity 0 NTU | | | 0 | 0.31 | 0.25 | +/- 0.5 NTU | <input checked="" type="checkbox"/> Yes No | |
| Turbidity 1 NTU | | | 1.00 | 0.85 | 1.00 | +/- 0.5 NTU | <input checked="" type="checkbox"/> Yes No | |
| Turbidity 10 NTU | | | 10.00 | 9.56 | 10.00 | +/- 0.5 NTU | <input checked="" type="checkbox"/> Yes No | |

EQUIPMENT CALIBRATION LOG

Field Technician: Thomas Kessler Date: 1/23/23 Time (start): 1545 Time (finish): 1835
 smarTroll SN: 850724 Turbidity Meter Type: LaMotte 2020we SN: 5896-3715
 Weather Conditions: partly cloudy, 50° Facility and Unit: Plant Hammond Project No.: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|--------------------|---|----------|
| Specific Conductance (µS/cm) | 22280153 | 17.04 | 4490 | 4307.1 | 4490 | +/- 5 % | <input checked="" type="radio"/> Yes No | |
| pH (4) | 11/23 | | 4.00 | 4.07 | 4.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (4) check | 2216543 11/23 ↓ | 10.55 ↓ | 4.00 | 6.97 ↓ | 7.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| pH (7) | | | 7.00 | | | +/- 0.1 SU | Yes No | |
| Mid-Day pH (7) check | <hr/> | | 7.00 | | | +/- 0.1 SU | Yes No | <hr/> |
| pH (10) | 21320200 12/23 | 16.20 | 10.00 | 9.65 | 10.0 | +/- 0.1 SU | Yes No | |
| Mid-Day pH (10) check | <hr/> | | 10.00 | | | +/- 0.1 SU | Yes No | <hr/> |
| ORP (mV) | 21390144 11/23 | 14.43 | 228 | 241.1 | 228 | +/- 20mV | <input checked="" type="radio"/> Yes No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 99.8 | 100 | +/- 6 % saturation | <input checked="" type="radio"/> Yes No | |
| Turbidity 0 NTU | | | 0 | 0 | 0 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 1 NTU | | | 1.00 | 0.82 | 1.0 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 10 NTU | | | 10.00 | 9.44 | 10.1 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |

EQUIPMENT CALIBRATION LOG

Field Technician Anthony S. Date 1/24/2023 Time (start) 755 Time (finish) 815
 smarTroll SN 883533 Turbidity Meter Type LaMotte 2020we SN: 7007-1416
 Weather Conditions Clear, 25°F Facility and Unit Plant Hammond Project No. GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-------------------|--------|----------|
| Specific Conductance (µS/cm) | 22250153 | -0.14 | 4490 | 4315.5 | 4490 | +/- 5% | Yes No | |
| pH (4) | 11/2023 | -0.11 | 4.00 | 4.74 | 4.00 | +/- 0.1 SU | Yes No | |
| Mid-Day pH (4) check | 22250153 11/2023 | 19.36 | 4.00 | 3.37 | 4.00 | +/- 0.1 SU | Yes No | |
| pH (7) | 2216893 11/2023 | 0.41 | 7.00 | 7.31 | 7.00 | +/- 0.1 SU | Yes No | |
| Mid-Day pH (7) check | 2216893 11/2023 | 11.01 | 7.00 | 6.93 | 7.06 | +/- 0.1 SU | Yes No | |
| pH (10) | 21320202 12/2023 | 1.01 | 10.00 | 10.21 | 10.00 | +/- 0.1 SU | Yes No | |
| Mid-Day pH (10) check | 21320202 12/2023 | 10.55 | 10.00 | 10.07 | 10.14 | +/- 0.1 SU | Yes No | |
| ORP (mV) | 21340144 11/2023 | 1.11 | 228 | 248.0 | 228 | +/- 20mV | Yes No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 94.50 | 100.0 | +/- 6% saturation | Yes No | |
| Turbidity 0 NTU | | | 0 | 0.00 | — | +/- 0.5 NTU | Yes No | |
| Turbidity 1 NTU | | | 1.00 | 0.45 | 0.59 | +/- 0.5 NTU | Yes No | |
| Turbidity 10 NTU | | | 10.00 | 11.79 | 9.99 | +/- 0.5 NTU | Yes No | |

EQUIPMENT CALIBRATION LOG

Field Technician: C. CAIN

Date: 1/24/23

Time (start): 0716

Time (finish): 0735

SmartTroll SN: 966040

Turbidity Meter Type: LaMotte 2020we

SN: 7009

Weather Conditions: Cloudy 28F

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-------------------------|--------------------|--------------------|--|----------|
| Specific Conductance (µS/cm) | 22250153 11/23 | 6.33 | 4490 | 3900 3900 | 4490 | +/- 5 % | <input checked="" type="checkbox"/> No | |
| pH (4) | ↓ | / | 4.00 | 3.92 3.92 | 4.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> No | |
| Mid-Day pH (4) check | ↓ | / | 4.00 | 3.92 3.96 | 4.0 4.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> No | |
| pH (7) | 2216893 11/23 | 7.42 | 7.00 | 7.05 | 7.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> No | |
| Mid-Day pH (7) check | ↓ | / | 7.00 | 7.06 | 7.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> No | |
| pH (10) | 212320202 12/23 | 7.69 | 10.00 | 10.19 | 10.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> No | |
| Mid-Day pH (10) check | ↓ | / | 10.00 | 9.97 | 10.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> No | |
| ORP (mV) | 21390144 11/23 | 7.59 | 228 | 242.8 | 228 | +/- 20mV | <input checked="" type="checkbox"/> No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 100.62 | 100 | +/- 6 % saturation | <input checked="" type="checkbox"/> No | |
| Turbidity 0 NTU | | | 0 | 0.35 | 0.0 | +/- 0.5 NTU | <input checked="" type="checkbox"/> No | |
| Turbidity 1 NTU | | | 1.00 | 0.72 | 1.00 | +/- 0.5 NTU | <input checked="" type="checkbox"/> No | |
| Turbidity 10 NTU | | | 10.00 | 10.83 | 10.00 | +/- 0.5 NTU | <input checked="" type="checkbox"/> No | |

EQUIPMENT CALIBRATION LOG

Field Technician: Thomas Kessler Date: 1/24/2025 Time (start): 0700 Time (finish): 0730
 smarTroll SN: 850724 Turbidity Meter Type: LaMotte 2020we SN: 5896-3715
 Weather Conditions: Sunny, 27°F Facility and Unit: Plant Hammond Project No.: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-----------------------|---|----------|
| Specific Conductance (µS/cm) | 22750153 | 7.55 | 4490 | 4166.0 | 4490 | +/- 5 % | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (4) | 11173 | | 4.00 | 3.91 | 4.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (4) check | 2216893 | 9.28 | 4.00 | 4.01 | 4.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (7) | 2216893 11173 | 9.26 | 7.00 | 7.00 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (7) check | | | 7.00 | 6.98 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (10) | 2180002 11173 | 9.94 | 10.00 | 10.13 | 10.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (10) check | | | 10.00 | 10.00 | 10.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| ORP (mV) | 213901441 11173 | 10.09 | 228 | 240.4 | 228 | +/- 20mV | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 100.44 | 100 | +/- 6 % saturation | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 0 NTU | | | 0 | 0.11 | 0.08 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 1 NTU | | | 1.00 | 1.07 | 1.00 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 10 NTU | | | 10.00 | 10.34 | 9.98 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |

EQUIPMENT CALIBRATION LOG

Field Technician: A. Swartz Date: 1/26/2023 Time (start): 825 Time (finish): 842
 smarTroll SN: 883533 Turbidity Meter Type: LaMotte 2020we SN: 7007-1416
 Weather Conditions: cloudy, 40°F Facility and Unit: Plant Hammond Project No.: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-----------------------|---|----------|
| Specific Conductance (µS/cm) | 22250153 | 5.40 | 4490 | 4588.8 | 4490 | +/- 5 % | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (4) | 11/2023 | 5.90 | 4.00 | 3.84 | 4.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (4) check | | | 4.00 | | | +/- 0.1 SU | <input type="radio"/> Yes <input checked="" type="radio"/> No | |
| pH (7) | 2216893 11/2023 | 6.34 | 7.00 | 6.95 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (7) check | | | 7.00 | | | +/- 0.1 SU | <input type="radio"/> Yes <input checked="" type="radio"/> No | |
| pH (10) | 21320202 12/2023 | 6.64 | 10.00 | 10.16 | 10.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (10) check | | | 10.00 | | | +/- 0.1 SU | <input type="radio"/> Yes <input checked="" type="radio"/> No | |
| ORP (mV) | 21590144 11/2023 | 6.75 | 228 | 234.5 | 228.0 | +/- 20mV | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 97.85 | 100.0 | +/- 6 % saturation | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 0 NTU | | | 0 | 0.00 | — | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 1 NTU | | | 1.00 | 0.61 | 0.80 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 10 NTU | | | 10.00 | 12.36 | 10.03 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |

EQUIPMENT CALIBRATION LOG

Field Technician: C. CAIN

Date: 1/26/23

Time (start): 0830

Time (finish): 0900

smarTroll SN: 966040

Turbidity Meter Type: LaMotte 2020we

SN: 7009

Weather Conditions: Cloudy 41

Facility and Unit: P Kent Hammond

Project No: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-----------------------|--|----------|
| Specific Conductance (µS/cm) | 22250153 11/23 | 9.93 | 4490 | 4489 | 4490 | +/- 5 % | <input checked="" type="checkbox"/> No | |
| pH (4) | ↓ | / | 4.00 | 4.03 | 4.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> No | |
| Mid-Day pH (4) check | ↓ | / | 4.00 | 4.01 | 4.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> No | |
| pH (7) | 2216893 11/23 | 16.55 | 7.00 | 7.04 | 7.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> No | |
| Mid-Day pH (7) check | ↓ | / | 7.00 | 7.07 | 7.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> No | |
| pH (10) | 212320202 12/23 | 10.64 | 10.00 | 10.10 | 10.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> No | |
| Mid-Day pH (10) check | ↓ | / | 10.00 | 9.94 | 10.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> No | |
| ORP (mV) | 21390149 11/23 | 10.54 | 228 | 232.7 | 228 | +/- 20mV | <input checked="" type="checkbox"/> No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 99.37 | 100 | +/- 6 % saturation | <input checked="" type="checkbox"/> No | |
| Turbidity 0 NTU | | | 0 | 0.01 | 0.0 | +/- 0.5 NTU | <input checked="" type="checkbox"/> No | |
| Turbidity 1 NTU | | | 1.00 | 1.18 | 1.00 | +/- 0.5 NTU | <input checked="" type="checkbox"/> No | |
| Turbidity 10 NTU | | | 10.00 | 10.12 | 10.00 | +/- 0.5 NTU | <input checked="" type="checkbox"/> No | |

EQUIPMENT CALIBRATION LOG

Field Technician: Thomas Kessler

Date: 11/26/2023

Time (start): 0830

Time (finish): 1000

smarTroll SN: 856774

Turbidity Meter Type: LaMotte 2020we

SN: 5896-375

Weather Conditions: Cloudy 40°

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-------------------|--|----------|
| Specific Conductance (µS/cm) | 27250183 | 10.72 | 4490 | 4416 | 4490 | +/- 5% | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (4) | 11/23 | | 4.00 | 4.0 | 4.03 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (4) check | ↓ | 15.39 | 4.00 | 3.85 | 4.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input checked="" type="radio"/> No | Recal |
| pH (7) | 2716893 11/23 | 10.45 | 7.00 | 7.02 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (7) check | — | — | 7.00 | 6.40 | — | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (10) | 21370203 17/23 | 10.68 | 10.00 | 9.95 | 10.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (10) check | — | — | 10.00 | 9.90 | — | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| ORP (mV) | 21390174 11/23 | 10.79 | 228 | 233.6 | 228 | +/- 20mV | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 99.99 | 100.00 | +/- 6% saturation | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 0 NTU | | | 0 | 0.21 | 0.00 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 1 NTU | | | 1.00 | 0.99 | 1.00 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 10 NTU | | | 10.00 | 10.45 | 10.00 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |

EQUIPMENT CALIBRATION LOG

Field Technician: A. Sawast Date: 1/27/2023 Time (start): 755 Time (finish): 830
 smarTroll SN: 883533 Turbidity Meter Type: LaMote 2020we SN: 7007-1416
 Weather Conditions: Sunny, 30°F Facility and Unit: Plant Hammond Project No: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|----------------------|------------------|-------------------|---|--|
| Specific Conductance (µS/cm) | 22250153 11/2023 | 1.91 | 4490 | 4484.4 | 4490.0 | +/- 5% | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (4) | | 3.33 | 4.00 | 4.04 | 4.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (4) check | | | 4.00 | | | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | unable to perform mid-day pH check while purging well |
| pH (7) | 2216893 11/2023 | 3.19 | 7.00 | 7.08 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (7) check | | | 7.00 | | | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (10) | 21320202 12/2023 | 3.58 | 10.00 | 4.04 | 10.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | 10.15 = initial reading |
| Mid-Day pH (10) check | | | 10.00 | | | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| ORP (mV) | 21396144 11/2023 | 3.75 | 228 | 233.2 | 228.0 | +/- 20mV | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 93.64 | 100.0 | +/- 6% saturation | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 0 NTU | | | 0 | 0.03 | — | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 1 NTU | | | 1.00 | 0.40 1.00 | 0.42 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | unable to calibrate with original standard New 1 NTU standard? 1.00 NTU |
| Turbidity 10 NTU | | | 10.00 | 12.07 | 10.00 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |

EQUIPMENT CALIBRATION LOG

Field Technician C. CRAIN

Date 1/27/23

Time (start): 0745

Time (finish) 0815

smarTroll SN 966 040

Turbidity Meter Type LaMotte 2020we

SN 7009

Weather Conditions Spring 31

Facility and Unit Plant Hammond

Project No GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-------------------|--|------------|
| Specific Conductance (µS/cm) | 22250153 11/23 | 7.22 | 4490 | 4421 | 4490 | +/- 5% | <input checked="" type="checkbox"/> No | |
| pH (4) | | | 4.00 | 3.98 | 4.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> No | |
| Mid-Day pH (4) check | ↓ | / | 4.00 | 4.01 | 4.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> No | |
| pH (7) | 2216843 11/23 | 7.56 | 7.00 | 7.05 | 7.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> No | |
| Mid-Day pH (7) check | | | ↓ | / | 7.00 | 7.06 | 7.0 | +/- 0.1 SU |
| pH (10) | 212320202 12/23 | 7.81 | 10.00 | 10.04 | 10.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> No | |
| Mid-Day pH (10) check | | | ↓ | / | 10.00 | 10.04 | 10.0 | +/- 0.1 SU |
| ORP (mV) | 21390144 | 7.65 | 228 | 232.7 | 228 | +/- 20mV | <input checked="" type="checkbox"/> No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 99.42 | 100 | +/- 6% saturation | <input checked="" type="checkbox"/> No | |
| Turbidity 0 NTU | | | 0 | 0.00 | 0.00 | +/- 0.5 NTU | <input checked="" type="checkbox"/> No | |
| Turbidity 1 NTU | | | 1.00 | 1.08 | 1.00 | +/- 0.5 NTU | <input checked="" type="checkbox"/> No | |
| Turbidity 10 NTU | | | 10.00 | 9.81 | 10.00 | +/- 0.5 NTU | <input checked="" type="checkbox"/> No | |

EQUIPMENT CALIBRATION LOG

01
13 21

Field Technician: Thomas Kessler

Date: 11/29/2023

Time (start): 13:00

Time (finish): 15:30

smarTroll SN: 856774

Turbidity Meter Type: LaMotte 2020we

SN: ~~856774~~ 5840-3713

Weather Conditions: Sunny, 45°

Facility and Unit: Pleasant Hill

Project No. GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-----------------------|---|----------|
| Specific Conductance (µS/cm) | 27920457 11/23 | 15.39 | 4490 | 47735 | 4490 | +/- 5 % | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| pH (4) | | | 4.00 | 4.38 | 4.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Mid-Day pH (4) check | — | — | 4.00 | — | — | +/- 0.1 SU | Yes <input type="checkbox"/> No | |
| pH (7) | 27168003 11/23 | 17.87 | 7.00 | 6.57 | 7.00 | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Mid-Day pH (7) check | — | — | 7.00 | — | — | +/- 0.1 SU | Yes <input type="checkbox"/> No | |
| pH (10) | 21370806 11/23 | 17.32 | 10.00 | 9.53 | 10.00 | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Mid-Day pH (10) check | — | — | 10.00 | — | — | +/- 0.1 SU | Yes <input type="checkbox"/> No | |
| ORP (mV) | 21390144 11/23 | 17.09 | 228 | 229.6 | 228 | +/- 20mV | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 101.9 | 100 | +/- 6 % saturation | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Turbidity 0 NTU | | | 0 | 0.38 | 0.00 | +/- 0.5 NTU | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Turbidity 1 NTU | | | 1.00 | 0.98 | 1.00 | +/- 0.5 NTU | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Turbidity 10 NTU | | | 10.00 | 9.88 | 10.00 | +/- 0.5 NTU | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |

EQUIPMENT CALIBRATION LOG

Field Technician A. Swast Date 2/1/2023 Time (start) 800 Time (finish) 820
 smarTroll SN: 883533 Turbidity Meter Type LaMote 2020we SN: 7007-1416
 Weather Conditions Cloudy, 45°F Facility and Unit: Plant Hammond Project No. GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-----------------------|---|----------|
| Specific Conductance (µS/cm) | 22250153 11/2023 | 9.62 | 4490 | 4236.0 | 4490.0 | +/- 5 % | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (4) | | 9.73 | 4.00 | 3.95 | 4.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (4) check | | | 4.00 | | | +/- 0.1 SU | Yes No | |
| pH (7) | 2216893 11/2023 | 9.98 | 7.00 | 7.03 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (7) check | | | 7.00 | | | +/- 0.1 SU | Yes No | |
| pH (10) | 21320202 12/2023 | 10.17 | 10.00 | 10.15 | 10.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (10) check | | | 10.00 | | | +/- 0.1 SU | Yes No | |
| ORP (mV) | 21390144 11/2023 | 10.20 | 228 | 233.6 | 228.0 | +/- 20mV | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 99.54 | 100.0 | +/- 6 % saturation | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 0 NTU | | | 0 | 0.15 | 0.00 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 1 NTU | | | 1.00 | 1.08 | — | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 10 NTU | | | 10.00 | 8.68 | 9.72 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |

August 2023

EQUIPMENT CALIBRATION LOG

Field Technician: C. CHAIN

Date: 8/8/23

Time (start): 0844

Time (finish): 0904

smarTroll SN: 883553

Turbidity Meter Type: LeMott 20207

SN: 4121-2623

Weather Conditions: Sunny 72

Facility and Unit: Plant Hammond

Project No.: GH/6591

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-------------------|------------------|-----------------------|--|----------|
| Specific Conductance (µS/cm) | 22250153 11/23 | 24.00 | 4490 4.0 cc | 4445.9 4.25 cc | 4490 4.0 cc | +/- 5 % | <input checked="" type="checkbox"/> Yes No | |
| pH (4) | | | 4.0 | 4.25 4.25 | 4.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes No | |
| Mid-Day pH (4) check | | | 4.0 | 3.99 | | +/- 0.1 SU | Yes No | |
| pH (7) | 2216893 11/23 | 25.16 | 7.0 | 7.18 | 7.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes No | |
| Mid-Day pH (7) check | | | 7.0 | 7.02 | | +/- 0.1 SU | Yes No | |
| pH (10) | 2210130 8/23 | 25.28 | 10.0 | 10.48 | 10.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes No | |
| Mid-Day pH (10) check | | | 10. | 10.0 | | +/- 0.1 SU | Yes No | |
| ORP (mV) | 21390144 11/23 | 25.33 | 228 | 219.9 | 228 | +/- 20mV | <input checked="" type="checkbox"/> Yes No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 97.99 | 100 | +/- 6 % saturation | <input checked="" type="checkbox"/> Yes No | |
| Turbidity 0 NTU | | | 0 | 0.05 | 0.04 | +/- 0.5 NTU | <input checked="" type="checkbox"/> Yes No | |
| Turbidity 1 NTU | | | 1 | 0.99 | 0.99 | +/- 0.5 NTU | <input checked="" type="checkbox"/> Yes No | |
| Turbidity 10 NTU | | | 10 | 10.54 | 10.0 | +/- 0.5 NTU | <input checked="" type="checkbox"/> Yes No | |

EQUIPMENT CALIBRATION LOG

Field Technician: Thomas Messer Date: 8/8/23 Time (start): 0843 Time (finish): 0857
 smarTroll SN: 8507241 Turbidity Meter Type: Lanette 2020 SN: 1475-4011
 Weather Conditions: Clear, 75° Facility and Unit: Hammond Project No.: GWC5861

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-----------------------|---|----------|
| Specific Conductance (µS/cm) | 22750153 | 24.22 | 4490 | 4351.6 | 4440 | +/- 5 % | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (4) | 11/23 | | 4 | 4.07 | 4.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (4) check | ↓ | | 4.03 | --- | --- | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (7) | 2216558 11/23 | 24.74 | 7.0 | 7.02 | 7.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (7) check | ↓ | | 6.99 | --- | --- | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (10) | 21370282 12/23 | 24.82 | 10 | 10.23 | 10.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (10) check | ↓ | | 10.07 | --- | --- | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| ORP (mV) | 22700085 8/23 | 24.85 | 278 | 275.4 | 278 | +/- 20mV | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 100.40 | 100 | +/- 6 % saturation | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 0 NTU | | | 0 | 1.25 | 0 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 1 NTU | | | 1 | 3.23 | 0.97 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 10 NTU | | | 10 | 9.73 | 9.47 | +/- 0.5 NTU | <input type="radio"/> Yes <input type="radio"/> No | |

EQUIPMENT CALIBRATION LOG

Field Technician: Elisabeth McDonnell

Date: 08/08/23

Time (start): 840

Time (finish): 910

smarTroll SN: 989630

Turbidity Meter Type: LamoHe 2020t

SN: 4109-2623

Weather Conditions: sunny 85

Facility and Unit: Plant hammont

Project No.: 6W6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-----------------------|--|----------|
| Specific Conductance (µS/cm) | 2226153 11/23 | 25.50 | 4,990 | 4,550 | 4510 | +/- 5 % | <input checked="" type="radio"/> Yes No | |
| pH (4) | | | 9.00 | 4.13 | 4.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (4) check | ↓ | | | | | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| pH (7) | 2216893 4/23 | 26.65 | 7.0 | 7.81 | 7.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (7) check | ↓ | | | | | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| pH (10) | 22320202 12/23 | | 10.0 | 9.82 | 10.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (10) check | ↓ | | | | | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| ORP (mV) | 21390147 11/23 | 25.56 | 228 | 228.2 | 228.1 | +/- 20mV | <input checked="" type="radio"/> Yes No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100% | 102.95% | 100% | +/- 6 % saturation | <input checked="" type="radio"/> Yes No | |
| Turbidity 0 NTU | | | 0.0 | 0.51 | 0.00 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 1 NTU | | | 1.0 | 1.45 | 1.06 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 10 NTU | | | 10.0 | 13.3 | 10.4 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |

EQUIPMENT CALIBRATION LOG

Field Technician: A. Swast

Date: 8-10-2023

Time (start): 805

Time (finish): 835

smarTroll SN: 883530

Turbidity Meter Type: LoMoHe 2020t

SN: 7139-2623

Weather Conditions: Rainy, 70°F

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|--------------------------|-------------------|------------------|------------------|-----------------------|--|----------|
| Specific Conductance (µS/cm) | 22250153 | 22.60 | 4490.0 | 4672.9 | 4490.0 | +/- 5 % | <input checked="" type="checkbox"/> Yes No | |
| pH (4) | 11/2023 | 23.62 | 4.00 | 3.92 | 4.00 | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes No | |
| Mid-Day pH (4) check | _____ | _____ | _____ | _____ | _____ | +/- 0.1 SU | Yes No | |
| pH (7) | 2216893 11/2023 | 24.55 | 7.00 | 7.10 | 7.00 | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes No | |
| Mid-Day pH (7) check | _____ | _____ | _____ | _____ | _____ | +/- 0.1 SU | Yes No | |
| pH (10) | 21320202 12/2023 | 24.37 | 10.00 | 10.26 | 10.00 | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes No | |
| Mid-Day pH (10) check | _____ | _____ | _____ | _____ | _____ | +/- 0.1 SU | Yes No | |
| ORP (mV) | 21390144 11/2023 | 22.8 24.68 | 228.0 | 225.3 | 228.0 | +/- 20mV | <input checked="" type="checkbox"/> Yes No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100.0 | 97.84 | 100.0 | +/- 6 % saturation | <input checked="" type="checkbox"/> Yes No | |
| Turbidity 0 NTU | | | 0.00 | 0.00 | — | +/- 0.5 NTU | <input checked="" type="checkbox"/> Yes No | |
| Turbidity 1 NTU | | | 1.00 | 1.23 | 1.18 | +/- 0.5 NTU | <input checked="" type="checkbox"/> Yes No | |
| Turbidity 10 NTU | | | 10.0 | 9.33 | 10.23 | +/- 0.5 NTU | <input checked="" type="checkbox"/> Yes No | |

EQUIPMENT CALIBRATION LOG

Field Technician: Thomas Kessler

Date: 8/10/23

Time (start): 0815

Time (finish): 0830

smarTroll SN: 850724

Turbidity Meter Type: LaMotte 2020w

SN: 7475-4011

Weather Conditions: Rainy, 69°

Facility and Unit: Hammock

Project No.: GWCS81

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|--------------------|---|----------|
| Specific Conductance (µS/cm) | 22250153 11/23 | 22.22 | 4490 | 4482 | 4490 | +/- 5 % | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (4) | | | 4 | 4.03 | 4.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (4) check | | | | 4.01 | | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (7) | 2226593 11/23 | 22.84 | 7 | 6.99 | 7.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (7) check | | | | 7.06 | | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (10) | 222082 12/23 | 22.22 | 10 | 9.92 | 10.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (10) check | | | | 10.03 | | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| ORP (mV) | 2220085 8/23 | 22.90 | 228 | 225.9 | 228 | +/- 20mV | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 97.59 | 100 | +/- 6 % saturation | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 0 NTU | | | 0 | 0.82 | 0 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 1 NTU | | | 1 | 0.72 | 0.89 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 10 NTU | | | 10 | 10.39 | 10.1 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |

EQUIPMENT CALIBRATION LOG

Field Technician: Elisabeth McDonnell

Date: 8/10/23

Time (start): 808

Time (finish): 838

smarTroll SN: 989630

Turbidity Meter Type: La Motte 2020b

SN: 9109-2623

Weather Conditions: Rainy 75

Facility and Unit: Plant Hammond

Project No: GW 6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-----------------------|---|----------|
| Specific Conductance (µS/cm) | 2226093 11/23 | 23 | 4490 | 4548 | 4490 | +/- 5 % | <input checked="" type="radio"/> Yes No | |
| pH (4) | ↓ | | 4.0 | 4.06 | 4.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (4) check | ↓ | 24.68 | 4.0 | 4.04 | 4.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| pH (7) | 2214893 11/23 | 24.33 | 7.0 | 7.02 | 7.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (7) check | ↓ | 24.53 | 7.0 | 6.97 | 7.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| pH (10) | 21320202 12/23 | 24.37 | 10.0 | 9.99 | 10.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (10) check | ↓ | 24.50 | 10.0 | 9.96 | 10.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| ORP (mV) | 21390144 11/23 | 24.57 | 228 | 227.2 | 228 | +/- 20mV | <input checked="" type="radio"/> Yes No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100% | 96.97 | 100% | +/- 6 % saturation | <input checked="" type="radio"/> Yes No | |
| Turbidity 0 NTU | | | 0.0 | 0.0 | 0.0 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 1 NTU | | | 1.0 | .75 | .89 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 10 NTU | | | 10.0 | 11.1 | 10.9 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |

EQUIPMENT CALIBRATION LOG

Field Technician: C. CAN Date: 8/10/23 Time (start): 0830 Time (finish): 0845
 smarTroll SN: 883553 Turbidity Meter Type: 2020 T SN: 4121-2623
 Weather Conditions: Rain 68 Facility and Unit: Plant Hammond Project No.: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-----------------------|--|--|
| Specific Conductance (µS/cm) | 22250153 11/23 | 23.43 | 4490 | 4564.8 | 4490 | +/- 5 % | <input checked="" type="checkbox"/> Yes No | |
| pH (4) | | | 4.0 | 4.01 | 4.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes No | |
| Mid-Day pH (4) check | | | 4.0 | 3.99 | | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes No | |
| pH (7) | 2216893 11/23 | 24.36 | 7.0 | 6.96 | 7.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes No | |
| Mid-Day pH (7) check | | | | 7.0 | 7.0 | | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes No |
| pH (10) | 22110130 | 24.26 | 10.0 | 10.0 | 10.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes No | |
| Mid-Day pH (10) check | | | | 10.0 | 10.0 | | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes No |
| ORP (mV) | 21390144 11/23 | 24.15 | 228 | 225.5 | 228 | +/- 20mV | <input checked="" type="checkbox"/> Yes No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 103.24 | 100 | +/- 6 % saturation | <input checked="" type="checkbox"/> Yes No | |
| Turbidity 0 NTU | | | 0 | 0 | 0 | +/- 0.5 NTU | <input checked="" type="checkbox"/> Yes No | |
| Turbidity 1 NTU | | | 1 | 0.91 | 1 | +/- 0.5 NTU | <input checked="" type="checkbox"/> Yes No | |
| Turbidity 10 NTU | | | 10 | 9.6 | 10 | +/- 0.5 NTU | <input checked="" type="checkbox"/> Yes No | |

EQUIPMENT CALIBRATION LOG

Field Technician: A. Szwast

Date: 8-11-2023

Time (start): 815

Time (finish): 830

smarTroll SN: 889530

Turbidity Meter Type: LaMotte 2020t

SN: 4139-2623

Weather Conditions: Cloudy, 75° F

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-----------------------|---|----------|
| Specific Conductance (µS/cm) | 22256153 | 29.24 | 4490.0 | 4495.8 | 4490.0 | +/- 5 % | <input checked="" type="radio"/> Yes No | |
| pH (4) | 11/2023 | 25.61 | 4.00 | 4.12 | 4.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (4) check | 22250153 11/2023 | 29.65 | 4.00 | 4.20 | 4.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| pH (7) | 2216893 11/2023 | 25.92 | 7.00 | 6.96 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (7) check | 2216893 11/2023 | 28.09 | 7.00 | 6.50 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| pH (10) | 21320202 12/2023 | 26.03 | 10.00 | 9.86 | 10.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (10) check | 21320202 12/2023 | 27.53 | 10.00 | 9.49 | 10.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| ORP (mV) | 21396144 11/2023 | 26.01 | 228.0 | 226.3 | 228.0 | +/- 20mV | <input checked="" type="radio"/> Yes No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100.0 | 99.15 | 100.0 | +/- 6 % saturation | <input checked="" type="radio"/> Yes No | |
| Turbidity 0 NTU | | | 0.00 | 0.00 | — | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 1 NTU | | | 1.00 | 1.53 | 1.08 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 10 NTU | | | 10.0 | 9.41 | 10.32 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |

EQUIPMENT CALIBRATION LOG

Field Technician: Elizabeth McDonnell

Date: 8/11/23

Time (start): 756

Time (finish): 816

smarTroll SN: 989630

Turbidity Meter Type: La Motte 2020T

SN: 4109-2623

Weather Conditions: 70-90 sunny

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-----------------------|---|----------|
| Specific Conductance (µS/cm) | 22250153 11/23 | 25.94 | 4490 | 4481.9 | 4490 | +/- 5 % | <input checked="" type="radio"/> Yes <input type="radio"/> No | / |
| pH (4) | ↓ | | 4.0 | 4.0 | 4.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (4) check | ↓ | 30.88 | 4.0 | 4.04 | 4.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (7) | 2216893 11/23 | 26.90 | 7.0 | 6.98 | 7.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (7) check | ↓ | 31.63 | 7.0 | 6.97 | 7.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (10) | 21320202 12/23 | 27.13 | 10.0 | 9.98 | 10.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (10) check | ↓ | 32.09 | 10.0 | 10.10 | 10.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| ORP (mV) | 21390149 11/23 | 26.7 | 228 | 225 | 228 | +/- 20mV | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100% | 99.39 | 100 | +/- 6 % saturation | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 0 NTU | | | 0.0 | 0.0 | 0.0 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 1 NTU | | | 1.0 | .89 | .48 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 10 NTU | | | 10.0 | 10.6 | 10.4 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |

EQUIPMENT CALIBRATION LOG

Field Technician: Thomas Hessler

Date: 8/11/2012

Time (start): 0800

Time (finish): 0833

smarTroll SN: 550174

Turbidity Meter Type: Limette 2020 w/c

SN: 147E 41011

Weather Conditions: Rainy, 75°

Facility and Unit: Plant Hammond

Project No.: CWC581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-------------------|---|---|
| Specific Conductance (µS/cm) | 22250153 | 24.37 | 4490 | 4611.2 | 4490 | +/- 5% | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (4) | | | 4.00 | 4.04 | 4.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (4) check | | | | 4.01 | | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (7) | 2216843 11/23 | 21.69 | 7.00 | 7.02 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (7) check | | | | | 6.97 | | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| pH (10) | 2220202 12/23 | 24.38 | 10.00 | 9.93 | 10.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (10) check | | | | | 10.08 | | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| ORP (mV) | 2220085 8/23 | 24.60 | 228 | 223.5 | 228 | +/- 20mV | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 98.2 | 100 | +/- 6% saturation | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 0 NTU | | | 0 | 1.07 | 0.0 | +/- 0.5 NTU | <input type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 1 NTU | | | 1 | 1.10 | 1.05 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 10 NTU | | | 10 | 9.76 | 9.85 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |

EQUIPMENT CALIBRATION LOG

Field Technician: J. Kessler

Date: 8/12/23

Time (start): 0720

Time (finish): 0750

smarTroll SN: 850724

Turbidity Meter Type: Lamotte 2020 we

SN: 19754011

Weather Conditions: Sunny, 75°

Facility and Unit: Hammond

Project No.: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|---------------------------|---|----------|
| Specific Conductance (µS/cm) | <u>2280153</u> <u>11/23</u> | <u>27.39</u> | <u>4140</u> | <u>4150.73</u> | <u>4140</u> | <u>+/- 5 %</u> | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (4) | | | <u>4.00</u> | <u>4.01</u> | <u>4.00</u> | <u>+/- 0.1 SU</u> | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (4) check | | | | <u>4.09</u> | | <u>+/- 0.1 SU</u> | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (7) | <u>2216813</u> <u>11/23</u> | <u>24.27</u> | <u>7.00</u> | <u>6.95</u> | <u>7.00</u> | <u>+/- 0.1 SU</u> | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (7) check | | | <u>7.00</u> | | | <u>+/- 0.1 SU</u> | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (10) | <u>21320202</u> <u>12/23</u> | <u>25.26</u> | <u>10.00</u> | <u>9.91</u> | <u>10.00</u> | <u>+/- 0.1 SU</u> | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (10) check | | | | <u>9.92</u> | | <u>+/- 0.1 SU</u> | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| ORP (mV) | <u>2270085</u> <u>8/23</u> | <u>25.31</u> | <u>228</u> | <u>222.2</u> | <u>228</u> | <u>+/- 20mV</u> | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| DO (%) (1pt, 100% water saturated air cal) | | | <u>100</u> | <u>98.9</u> | <u>100</u> | <u>+/- 6 % saturation</u> | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 0 NTU | | | <u>0</u> | <u>0.93</u> | <u>0</u> | <u>+/- 0.5 NTU</u> | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 1 NTU | | | <u>1</u> | <u>1.32</u> | <u>0.97</u> | <u>+/- 0.5 NTU</u> | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 10 NTU | | | <u>10</u> | <u>7.30</u> | <u>9.97</u> | <u>+/- 0.5 NTU</u> | <input checked="" type="radio"/> Yes <input type="radio"/> No | |

EQUIPMENT CALIBRATION LOG

Field Technician: C. CRAIN Date: 8/12/23 Time (start): 0740 Time (finish): 0815
 smarTroll SN: 883553 Turbidity Meter Type: 2020T SN: 4121-2623
 Weather Conditions: Sunny 75 Facility and Unit: Plant Hammond Project No.: 61W6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-----------------------|--|------------|
| Specific Conductance (µS/cm) | 22250153 11/23 | 24.97 | 4490 | 4593.2 | 4490 | +/- 5 % | <input checked="" type="checkbox"/> No | |
| pH (4) | | | 4.0 | 3.96 | 4.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> No | |
| Mid-Day pH (4) check | | | 4.0 | 4.0 | | +/- 0.1 SU | <input checked="" type="checkbox"/> No | |
| pH (7) | 2216493 11/23 | 25.75 | 7.0 | 6.96 | 7.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> No | |
| Mid-Day pH (7) check | | | | | 7.0 | 7.0 | | +/- 0.1 SU |
| pH (10) | 22110130 8/23 | 25.92 | 10.0 | 9.91 | 10.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> No | |
| Mid-Day pH (10) check | | | | | 10.0 | 10.02 | | +/- 0.1 SU |
| ORP (mV) | 2390144 11/23 | 25.97 | 228 | 225.4 | 228 | +/- 20mV | <input checked="" type="checkbox"/> No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 96.25 | 100 | +/- 6 % saturation | <input checked="" type="checkbox"/> No | |
| Turbidity 0 NTU | | | 0 | 0 | 0 | +/- 0.5 NTU | <input checked="" type="checkbox"/> No | |
| Turbidity 1 NTU | | | 1 | 0.79 | 0.96 | +/- 0.5 NTU | <input checked="" type="checkbox"/> No | |
| Turbidity 10 NTU | | | 10 | | | +/- 0.5 NTU | Yes No | |

APPENDIX D

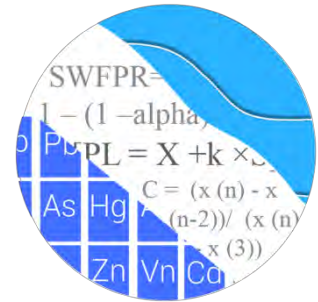
Statistical Analysis Reports

January 2023

GROUNDWATER STATS CONSULTING

August 31, 2023

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308



Re: Plant Hammond Ash Pond 1 (AP-1)
Statistical Analysis – January/February 2023 Sample Event

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the January/February 2023 Semi-Annual Groundwater Detection and Assessment Monitoring statistical summary of groundwater data for Georgia Power Company's Plant Hammond AP-1. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began for the Coal Combustion Residuals (CCR) program in 2016, and at least 8 background samples have been collected at each of the upgradient and downgradient groundwater monitoring wells. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** HGWA-1, HGWA-2, HGWA-3, HGWA-43D, and HGWA-44D
- **Downgradient wells:** HGWC-7, HGWC-8, HGWC-9, HGWC-10, HGWC-11, HGWC-12, and HGWC-13
- **Assessment wells:** MW-5, MW-6, MW-7, MW-19, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D, and MW-29

Sampling at upgradient wells HGWA-43D and HGWA-44D began in September 2020 and all data from these wells are included in construction of interwell statistical limits.

Data from assessment wells, which were first sampled in March 2019, are included on time series and box plots for all parameters. When a minimum of 4 samples is available, data at these wells are evaluated using confidence intervals for the Appendix IV constituents. Wells MW-30D and MW-40D were included as assessment wells during previous reporting periods, but each was reclassified as a "piezometer" based on the findings presented in the alternate source demonstration included as an appendix of the 2020 Annual Groundwater Monitoring & Corrective Action Report, submitted to Georgia EPD in January 2021. Because of this reclassification, data for wells MW-30D and MW-40D are not presented in this report.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician to Groundwater Stats Consulting. The statistical analysis was performed according to the groundwater screening that was performed in April 2018 by GSC and approved by Dr. Cameron, PhD Statistician with MacStat Consulting and primary author of the USEPA Unified Guidance (2009).

The CCR program consists of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **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 and assessment 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 cases of lithium and thallium, historical reporting limits vary among the wells. Therefore, the reporting limits of 0.03 mg/L and 0.001 mg/L, respectively, were substituted across all wells, which is the most recent reporting limit provided by the laboratory. Additionally, during the January/February sample event, elevated reporting limits of 0.025 mg/L were observed for both chromium and cobalt at well HGWC-8 as a result of dilution factors. The most recent reporting limit of 0.005 mg/L found at all other wells for both constituents was substituted in lieu of the elevated reporting limit.

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. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. No values were flagged as outliers (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Statistical Methods – Appendix III Parameters

The following Appendix III parameters are evaluated using interwell prediction limits combined with a 1-of-2 resample plan: boron, calcium, chloride, fluoride, pH, sulfate, 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 false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent 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.

- 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.

Note that values shown on data pages reflect raw data and any non-detects that have been substituted with one-half of the reporting limit will be shown as the original reporting limit.

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 interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, an earlier portion of data may require deselection prior to construction of limits to provide sensitive limits that will rapidly detect 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. When this step is required a summary of any adjusted records will be provided. No records were adjusted at this time.

Statistical Analysis of Appendix III Parameters – January/February 2023

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. No new values were flagged as shown in the outlier summary following this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed for Appendix III parameters using all historical upgradient well data through February 2023 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The January/February 2023 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

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 a resample confirms the initial exceedance, a statistically significant increase (SSI) is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance.

When the January/February 2023 compliance data from downgradient wells were compared to interwell prediction limits, exceedances were identified for the following well/constituent pairs:

- Boron: HGWC-11, HGWC-12, HGWC-13, HGWC-7, HGWC-8, and HGWC-9
- Calcium: HGWC-12, HGWC-13, and HGWC-9
- Chloride: HGWC-8 and HGWC-9
- Sulfate: HGWC-11, HGWC-12, HGWC-13, HGWC-7, HGWC-8, and HGWC-9
- TDS: HGWC-13 and HGWC-9

A summary table of these findings is provided along with the prediction limits.

Trend Test Evaluation – Appendix III

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 E). Upgradient well data 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 variability in groundwater unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends:

- Boron: HGWA-2 (upgradient) and HGWC-7
- Calcium: HGWA-3 (upgradient)
- Chloride: HGWA-44D (upgradient)
- Sulfate: HGWA-2 (upgradient)

Decreasing trends:

- Boron: HGWC-12 and HGWC-13
- Chloride: HGWA-3 (upgradient), HGWC-8, and HGWC-9
- Sulfate: HGWA-43D (upgradient)

Statistical Methods – Appendix IV Parameters

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (Maximum Contaminant Limits (MCL) or CCR rule-specified limits) or site-specific limits that are based on upgradient background groundwater quality. Site-specific background limits are determined using tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals. The methods are described below.

Statistical Evaluation of Appendix IV Parameters – January/February 2023

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs containing 100% non-detects do not require analyses. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis. No new values were flagged and a summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

First, interwell upper tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2023 for Appendix IV constituents (Figure F). As mentioned above, a reporting limit of 0.03 mg/L was substituted across all wells for lithium. Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22,

2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals using data through February 2023 were constructed for each of the Appendix IV constituents in each downgradient well and assessment wells with 4 or more samples.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, 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. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Confidence intervals were compared to the GWPS prepared as described above (Figure H). As mentioned above, a reporting limit of 0.005 mg/L was substituted for both chromium and cobalt. Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of the confidence interval results, along with graphical comparison against GWPS follow this letter. Exceedances were noted for the following well/constituent pairs:

- Arsenic: HGWC-13
- Molybdenum: HGWC-8

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient trends, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. No statistically significant increasing or decreasing trends were identified.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Hammond AP-1. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew Collins
Project Manager



Kristina Rayner
Senior Statistician

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 4/14/2023 1:04 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Antimony (mg/L)

HGWC-12, MW-19, MW-20, MW-25D, MW-5

Arsenic (mg/L)

HGWC-10, MW-24D, MW-7

Beryllium (mg/L)

HGWC-10, HGWC-12, HGWC-9, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-29, MW-5, MW-6

Cadmium (mg/L)

HGWC-13, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D, MW-29, MW-5, MW-6, MW-7

Cobalt (mg/L)

MW-25D, MW-5, MW-7

Lead (mg/L)

MW-25D

Lithium (mg/L)

HGWC-10, HGWC-11, MW-5, MW-6, MW-7

Mercury (mg/L)

HGWC-12, HGWC-7, HGWC-8, MW-19, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D, MW-29, MW-5, MW-6, MW-7

Molybdenum (mg/L)

MW-20, MW-5

Selenium (mg/L)

HGWC-7, MW-20, MW-24D, MW-25D, MW-26D, MW-28D, MW-29, MW-6

Thallium (mg/L)

HGWC-10, HGWC-7, HGWC-9, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-5, MW-7

Appendix III Interwell Prediction Limits - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 12:39 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------------------|---------|------------|------------|-----------|---------|------|------|---------|-----------|------|---------|-----------|-----------|-----------------------------|
| Boron (mg/L) | HGWC-11 | 0.44 | n/a | 1/26/2023 | 0.5 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-12 | 0.44 | n/a | 1/26/2023 | 1.5 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-13 | 0.44 | n/a | 1/26/2023 | 0.83 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-7 | 0.44 | n/a | 1/27/2023 | 0.93 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-8 | 0.44 | n/a | 2/1/2023 | 1.9 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-9 | 0.44 | n/a | 1/26/2023 | 1.9 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-12 | 138 | n/a | 1/26/2023 | 154 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-13 | 138 | n/a | 1/26/2023 | 234 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-9 | 138 | n/a | 1/26/2023 | 173 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-8 | 44.8 | n/a | 2/1/2023 | 52.4 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-9 | 44.8 | n/a | 1/26/2023 | 86.9 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-11 | 88.2 | n/a | 1/26/2023 | 209 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-12 | 88.2 | n/a | 1/26/2023 | 228 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-13 | 88.2 | n/a | 1/26/2023 | 495 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-7 | 88.2 | n/a | 1/27/2023 | 119 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-8 | 88.2 | n/a | 2/1/2023 | 179 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-9 | 88.2 | n/a | 1/26/2023 | 217 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-13 | 632 | n/a | 1/26/2023 | 962 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-9 | 632 | n/a | 1/26/2023 | 745 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |

Appendix III Interwell Prediction Limits - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 12:39 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|--------------------------------------|----------------|-------------|------------|------------------|-------------|------------|-----------|------------|------------|-------------|------------|------------|------------------|------------------------------------|
| Boron (mg/L) | HGWC-10 | 0.44 | n/a | 1/27/2023 | 0.065 | No | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-11 | 0.44 | n/a | 1/26/2023 | 0.5 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-12 | 0.44 | n/a | 1/26/2023 | 1.5 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-13 | 0.44 | n/a | 1/26/2023 | 0.83 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-7 | 0.44 | n/a | 1/27/2023 | 0.93 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-8 | 0.44 | n/a | 2/1/2023 | 1.9 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-9 | 0.44 | n/a | 1/26/2023 | 1.9 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-10 | 138 | n/a | 1/27/2023 | 60.4 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-11 | 138 | n/a | 1/26/2023 | 113 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-12 | 138 | n/a | 1/26/2023 | 154 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-13 | 138 | n/a | 1/26/2023 | 234 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-7 | 138 | n/a | 1/27/2023 | 124 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-8 | 138 | n/a | 2/1/2023 | 110 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-9 | 138 | n/a | 1/26/2023 | 173 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-10 | 44.8 | n/a | 1/27/2023 | 1.6 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-11 | 44.8 | n/a | 1/26/2023 | 8.8 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-12 | 44.8 | n/a | 1/26/2023 | 34.6 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-13 | 44.8 | n/a | 1/26/2023 | 12.5 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-7 | 44.8 | n/a | 1/27/2023 | 40 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-8 | 44.8 | n/a | 2/1/2023 | 52.4 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-9 | 44.8 | n/a | 1/26/2023 | 86.9 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-10 | 1.3 | n/a | 1/27/2023 | 0.16 | No | 94 | n/a | n/a | 28.72 | n/a | n/a | 0.0002194 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-11 | 1.3 | n/a | 1/26/2023 | 0.2 | No | 94 | n/a | n/a | 28.72 | n/a | n/a | 0.0002194 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-12 | 1.3 | n/a | 1/26/2023 | 0.21 | No | 94 | n/a | n/a | 28.72 | n/a | n/a | 0.0002194 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-13 | 1.3 | n/a | 1/26/2023 | 0.4 | No | 94 | n/a | n/a | 28.72 | n/a | n/a | 0.0002194 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-7 | 1.3 | n/a | 1/27/2023 | 0.1 | No | 94 | n/a | n/a | 28.72 | n/a | n/a | 0.0002194 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-8 | 1.3 | n/a | 2/1/2023 | 0.4 | No | 94 | n/a | n/a | 28.72 | n/a | n/a | 0.0002194 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-9 | 1.3 | n/a | 1/26/2023 | 0.11 | No | 94 | n/a | n/a | 28.72 | n/a | n/a | 0.0002194 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-10 | 8.25 | 4.9 | 1/27/2023 | 6.89 | No | 89 | n/a | n/a | 0 | n/a | n/a | 0.0004864 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-11 | 8.25 | 4.9 | 1/26/2023 | 6.23 | No | 89 | n/a | n/a | 0 | n/a | n/a | 0.0004864 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-12 | 8.25 | 4.9 | 1/26/2023 | 7.1 | No | 89 | n/a | n/a | 0 | n/a | n/a | 0.0004864 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-13 | 8.25 | 4.9 | 1/26/2023 | 6.9 | No | 89 | n/a | n/a | 0 | n/a | n/a | 0.0004864 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-7 | 8.25 | 4.9 | 1/27/2023 | 7.25 | No | 89 | n/a | n/a | 0 | n/a | n/a | 0.0004864 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-8 | 8.25 | 4.9 | 2/1/2023 | 6.6 | No | 89 | n/a | n/a | 0 | n/a | n/a | 0.0004864 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-9 | 8.25 | 4.9 | 1/26/2023 | 7.07 | No | 89 | n/a | n/a | 0 | n/a | n/a | 0.0004864 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-10 | 88.2 | n/a | 1/27/2023 | 37.3 | No | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-11 | 88.2 | n/a | 1/26/2023 | 209 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-12 | 88.2 | n/a | 1/26/2023 | 228 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-13 | 88.2 | n/a | 1/26/2023 | 495 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-7 | 88.2 | n/a | 1/27/2023 | 119 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-8 | 88.2 | n/a | 2/1/2023 | 179 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-9 | 88.2 | n/a | 1/26/2023 | 217 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-10 | 632 | n/a | 1/27/2023 | 188 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-11 | 632 | n/a | 1/26/2023 | 429 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-12 | 632 | n/a | 1/26/2023 | 624 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-13 | 632 | n/a | 1/26/2023 | 962 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-7 | 632 | n/a | 1/27/2023 | 473 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-8 | 632 | n/a | 2/1/2023 | 528 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-9 | 632 | n/a | 1/26/2023 | 745 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |

Appendix III Trend Tests - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 12:44 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-----------------|---------------|----------|-------|----------|------|----|------|-----------|-------|-------|--------|
| Boron (mg/L) | HGWA-2 (bg) | 0.002417 | 122 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-12 | -0.1782 | -97 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-13 | -0.246 | -121 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-7 | 0.04008 | 125 | 92 | Yes | 22 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-3 (bg) | 2.343 | 113 | 87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-3 (bg) | -0.1308 | -102 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-44D (bg) | 8.893 | 28 | 25 | Yes | 9 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWC-8 | -9.384 | -113 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWC-9 | -12.17 | -134 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-2 (bg) | 1.847 | 118 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-43D (bg) | -2.015 | -26 | -25 | Yes | 9 | 0 | n/a | n/a | 0.01 | NP |

Appendix III Trend Tests - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 12:44 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------------------|----------------------|-----------------|-------------|------------|------------|-----------|----------|------------|------------|-------------|-----------|
| Boron (mg/L) | HGWA-1 (bg) | -0.0005071 | -38 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-2 (bg) | 0.002417 | 122 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-3 (bg) | 0.0004174 | 28 | 87 | No | 21 | 19.05 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-43D (bg) | -0.009889 | -24 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-44D (bg) | 0.06482 | 20 | 25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-11 | -0.1651 | -74 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-12 | -0.1782 | -97 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-13 | -0.246 | -121 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-7 | 0.04008 | 125 | 92 | Yes | 22 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-8 | -0.0007786 | -3 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-9 | 0.05878 | 64 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-1 (bg) | 2.482 | 68 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-2 (bg) | 0.8789 | 66 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-3 (bg) | 2.343 | 113 | 87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-43D (bg) | -3.051 | -16 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-44D (bg) | -7.217 | -20 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-12 | -4.398 | -55 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-13 | 18.24 | 66 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-9 | 0.9669 | 42 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-1 (bg) | 0.6249 | 63 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-2 (bg) | -0.02813 | -10 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-3 (bg) | -0.1308 | -102 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-43D (bg) | 0 | -2 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-44D (bg) | 8.893 | 28 | 25 | Yes | 9 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWC-8 | -9.384 | -113 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWC-9 | -12.17 | -134 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-1 (bg) | 1.051 | 29 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-2 (bg) | 1.847 | 118 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-3 (bg) | 0.5404 | 34 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-43D (bg) | -2.015 | -26 | -25 | Yes | 9 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-44D (bg) | 3.569 | 14 | 25 | No | 9 | 11.11 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-11 | -8.003 | -34 | -81 | No | 20 | 5 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-12 | -9.947 | -60 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-13 | 45.96 | 62 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-7 | 0 | 12 | 92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-8 | -3.675 | -27 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-9 | -2.98 | -41 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWA-1 (bg) | 3.042 | 16 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWA-2 (bg) | 2.559 | 17 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWA-3 (bg) | 1.746 | 27 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWA-43D (bg) | -6.294 | -12 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWA-44D (bg) | 39.45 | 22 | 25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWC-13 | 52.01 | 56 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWC-9 | -33.15 | -52 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |

Upper Tolerance Limits Summary Table

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 12:49 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig.Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|------|------------|------------|------|---------|----------|---------|-----------|-------|---------|-----------|----------|---------------------|
| Antimony (mg/L) | n/a | 0.003 | n/a | n/a | n/a | n/a 83 | n/a | n/a | 80.72 | n/a | n/a | 0.01416 | NP Inter(NDs) |
| Arsenic (mg/L) | n/a | 0.005 | n/a | n/a | n/a | n/a 89 | n/a | n/a | 66.29 | n/a | n/a | 0.01041 | NP Inter(NDs) |
| Barium (mg/L) | n/a | 0.46 | n/a | n/a | n/a | n/a 89 | n/a | n/a | 0 | n/a | n/a | 0.01041 | NP Inter(normality) |
| Beryllium (mg/L) | n/a | 0.0005 | n/a | n/a | n/a | n/a 83 | n/a | n/a | 78.31 | n/a | n/a | 0.01416 | NP Inter(NDs) |
| Cadmium (mg/L) | n/a | 0.0005 | n/a | n/a | n/a | n/a 83 | n/a | n/a | 85.54 | n/a | n/a | 0.01416 | NP Inter(NDs) |
| Chromium (mg/L) | n/a | 0.0079 | n/a | n/a | n/a | n/a 83 | n/a | n/a | 83.13 | n/a | n/a | 0.01416 | NP Inter(NDs) |
| Cobalt (mg/L) | n/a | 0.038 | n/a | n/a | n/a | n/a 83 | n/a | n/a | 72.29 | n/a | n/a | 0.01416 | NP Inter(NDs) |
| Combined Radium 226 + 228 (pCi/L) | n/a | 4.36 | n/a | n/a | n/a | n/a 89 | n/a | n/a | 0 | n/a | n/a | 0.01041 | NP Inter(normality) |
| Fluoride (mg/L) | n/a | 1.3 | n/a | n/a | n/a | n/a 94 | n/a | n/a | 28.72 | n/a | n/a | 0.008054 | NP Inter(normality) |
| Lead (mg/L) | n/a | 0.001 | n/a | n/a | n/a | n/a 80 | n/a | n/a | 68.75 | n/a | n/a | 0.01652 | NP Inter(NDs) |
| Lithium (mg/L) | n/a | 0.064 | n/a | n/a | n/a | n/a 89 | n/a | n/a | 19.1 | n/a | n/a | 0.01041 | NP Inter(normality) |
| Mercury (mg/L) | n/a | 0.0002 | n/a | n/a | n/a | n/a 61 | n/a | n/a | 96.72 | n/a | n/a | 0.04377 | NP Inter(NDs) |
| Molybdenum (mg/L) | n/a | 0.01 | n/a | n/a | n/a | n/a 91 | n/a | n/a | 78.02 | n/a | n/a | 0.009394 | NP Inter(NDs) |
| Selenium (mg/L) | n/a | 0.005 | n/a | n/a | n/a | n/a 89 | n/a | n/a | 97.75 | n/a | n/a | 0.01041 | NP Inter(NDs) |
| Thallium (mg/L) | n/a | 0.001 | n/a | n/a | n/a | n/a 89 | n/a | n/a | 98.88 | n/a | n/a | 0.01041 | NP Inter(NDs) |

| PLANT HAMMOND AP-1 GWPS | | | | |
|--------------------------------|------------|---------------------------|-------------------------|-------------|
| Constituent Name | MCL | CCR-Rule Specified | Background Limit | GWPS |
| Antimony, Total (mg/L) | 0.006 | | 0.003 | 0.006 |
| Arsenic, Total (mg/L) | 0.01 | | 0.005 | 0.01 |
| Barium, Total (mg/L) | 2 | | 0.46 | 2 |
| Beryllium, Total (mg/L) | 0.004 | | 0.0005 | 0.004 |
| Cadmium, Total (mg/L) | 0.005 | | 0.0005 | 0.005 |
| Chromium, Total (mg/L) | 0.1 | | 0.0079 | 0.1 |
| Cobalt, Total (mg/L) | n/a | 0.006 | 0.038 | 0.038 |
| Combined Radium, Total (pCi/L) | 5 | | 4.36 | 5 |
| Fluoride, Total (mg/L) | 4 | | 1.3 | 4 |
| Lead, Total (mg/L) | n/a | 0.015 | 0.001 | 0.015 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.064 | 0.064 |
| Mercury, Total (mg/L) | 0.002 | | 0.0002 | 0.002 |
| Molybdenum, Total (mg/L) | n/a | 0.1 | 0.01 | 0.1 |
| Selenium, Total (mg/L) | 0.05 | | 0.005 | 0.05 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 0.002 |

**Grey cell indicates background is higher than MCL or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Confidence Intervals - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 1:13 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------|---------|------------|------------|------------|------|----|--------|-----------|------|---------|-----------|-------|--------|
| Arsenic (mg/L) | HGWC-13 | 0.4311 | 0.3628 | 0.01 | Yes | 23 | 0.397 | 0.06529 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-8 | 0.4856 | 0.4241 | 0.1 | Yes | 24 | 0.4513 | 0.06596 | 0 | None | x^2 | 0.01 | Param. |

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 1:13 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------|----------------|---------------|---------------|-------------|------------|-----------|--------------|----------------|----------|-------------|-----------|-------------|----------------|
| Antimony (mg/L) | HGWC-10 | 0.003 | 0.0018 | 0.006 | No | 21 | 0.002831 | 0.000564 | 90.48 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-11 | 0.003 | 0.00038 | 0.006 | No | 21 | 0.002875 | 0.0005717 | 95.24 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-13 | 0.003 | 0.00047 | 0.006 | No | 21 | 0.00213 | 0.001263 | 66.67 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-7 | 0.003 | 0.0017 | 0.006 | No | 22 | 0.00282 | 0.0006192 | 90.91 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-8 | 0.003 | 0.00064 | 0.006 | No | 21 | 0.002888 | 0.000515 | 95.24 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-9 | 0.003 | 0.00092 | 0.006 | No | 21 | 0.002528 | 0.001002 | 80.95 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-24D | 0.003 | 0.0017 | 0.006 | No | 12 | 0.002892 | 0.0003753 | 91.67 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-26D | 0.003 | 0.002 | 0.006 | No | 12 | 0.002775 | 0.0005463 | 83.33 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-27D | 0.003 | 0.0003 | 0.006 | No | 12 | 0.001652 | 0.001409 | 50 | None | No | 0.01 | NP (normality) |
| Antimony (mg/L) | MW-28D | 0.003 | 0.0019 | 0.006 | No | 12 | 0.002908 | 0.0003175 | 91.67 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-29 | 0.003 | 0.00094 | 0.006 | No | 12 | 0.002828 | 0.0005947 | 91.67 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-6 | 0.003 | 0.0014 | 0.006 | No | 12 | 0.002867 | 0.0004619 | 91.67 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-7 | 0.003 | 0.00086 | 0.006 | No | 12 | 0.002398 | 0.0009593 | 66.67 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | HGWC-11 | 0.005 | 0.0018 | 0.01 | No | 23 | 0.003554 | 0.001724 | 47.83 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | HGWC-12 | 0.004183 | 0.002886 | 0.01 | No | 23 | 0.003535 | 0.00124 | 8.696 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | HGWC-13 | 0.4311 | 0.3628 | 0.01 | Yes | 23 | 0.397 | 0.06529 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | HGWC-7 | 0.005 | 0.0019 | 0.01 | No | 24 | 0.004871 | 0.0006328 | 95.83 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | HGWC-8 | 0.005 | 0.002 | 0.01 | No | 23 | 0.00487 | 0.0006255 | 95.65 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | HGWC-9 | 0.005 | 0.0021 | 0.01 | No | 23 | 0.004305 | 0.001573 | 82.61 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-19 | 0.005 | 0.00045 | 0.01 | No | 12 | 0.004621 | 0.001313 | 91.67 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-20 | 0.005 | 0.00094 | 0.01 | No | 12 | 0.004052 | 0.001767 | 75 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-25D | 0.005 | 0.001 | 0.01 | No | 12 | 0.003729 | 0.001895 | 66.67 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-26D | 0.005 | 0.0008 | 0.01 | No | 12 | 0.004008 | 0.001811 | 75 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-27D | 0.005 | 0.00069 | 0.01 | No | 12 | 0.003907 | 0.001984 | 75 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-28D | 0.005 | 0.0011 | 0.01 | No | 12 | 0.004675 | 0.001126 | 91.67 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-29 | 0.005 | 0.00037 | 0.01 | No | 12 | 0.004614 | 0.001337 | 91.67 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-5 | 0.005 | 0.0013 | 0.01 | No | 12 | 0.004692 | 0.001068 | 91.67 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-6 | 0.005 | 0.0034 | 0.01 | No | 12 | 0.004867 | 0.0004619 | 91.67 | None | No | 0.01 | NP (NDs) |
| Barium (mg/L) | HGWC-10 | 0.08399 | 0.06212 | 2 | No | 23 | 0.07306 | 0.02091 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-11 | 0.05051 | 0.03278 | 2 | No | 23 | 0.04283 | 0.01895 | 0 | None | sqrt(x) | 0.01 | Param. |
| Barium (mg/L) | HGWC-12 | 0.123 | 0.083 | 2 | No | 23 | 0.09896 | 0.02104 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | HGWC-13 | 0.08825 | 0.06754 | 2 | No | 23 | 0.0779 | 0.0198 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-7 | 0.07378 | 0.06797 | 2 | No | 24 | 0.07088 | 0.005696 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-8 | 0.07372 | 0.06219 | 2 | No | 23 | 0.06796 | 0.01102 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-9 | 0.1187 | 0.1011 | 2 | No | 23 | 0.1099 | 0.01686 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-19 | 0.06184 | 0.04583 | 2 | No | 12 | 0.05383 | 0.01021 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-20 | 0.09568 | 0.08599 | 2 | No | 12 | 0.09083 | 0.006177 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-24D | 0.081 | 0.048 | 2 | No | 12 | 0.0605 | 0.02098 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | MW-25D | 0.596 | 0.4157 | 2 | No | 12 | 0.5058 | 0.1149 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-26D | 0.1217 | 0.07335 | 2 | No | 12 | 0.0975 | 0.03078 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-27D | 1.2 | 0.94 | 2 | No | 12 | 1.056 | 0.1609 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | MW-28D | 0.7309 | 0.3408 | 2 | No | 12 | 0.5358 | 0.2486 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-29 | 0.08349 | 0.07551 | 2 | No | 12 | 0.0795 | 0.00509 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-5 | 0.05211 | 0.04456 | 2 | No | 12 | 0.04833 | 0.004812 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-6 | 0.09038 | 0.07995 | 2 | No | 12 | 0.08517 | 0.006645 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-7 | 0.0617 | 0.04896 | 2 | No | 12 | 0.05533 | 0.008117 | 0 | None | No | 0.01 | Param. |
| Beryllium (mg/L) | HGWC-11 | 0.0005 | 0.00012 | 0.004 | No | 21 | 0.0003713 | 0.0001875 | 66.67 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | HGWC-13 | 0.0005 | 0.000097 | 0.004 | No | 21 | 0.0003254 | 0.0002069 | 57.14 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | HGWC-7 | 0.0005 | 0.00019 | 0.004 | No | 22 | 0.0004476 | 0.0001363 | 86.36 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | HGWC-8 | 0.003 | 0.000074 | 0.004 | No | 21 | 0.001885 | 0.001456 | 61.9 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | MW-19 | 0.0005 | 0.000058 | 0.004 | No | 12 | 0.0004632 | 0.0001276 | 91.67 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | MW-28D | 0.0005 | 0.000054 | 0.004 | No | 12 | 0.0003952 | 0.0001909 | 75 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | MW-7 | 0.0005 | 0.000051 | 0.004 | No | 12 | 0.0004626 | 0.0001296 | 91.67 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | HGWC-10 | 0.0005 | 0.000115 | 0.005 | No | 21 | 0.0003721 | 0.0001864 | 66.67 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | HGWC-11 | 0.0005 | 0.0001 | 0.005 | No | 21 | 0.0004427 | 0.0001439 | 85.71 | None | No | 0.01 | NP (NDs) |

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 1:13 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|---------|------------|------------|------------|------|----|-----------|-----------|-------|--------------|-----------|-------|----------------|
| Cadmium (mg/L) | HGWC-12 | 0.0005 | 0.0003 | 0.005 | No | 21 | 0.00044 | 0.0001313 | 80.95 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | HGWC-7 | 0.0005 | 0.0002 | 0.005 | No | 22 | 0.0004268 | 0.0001394 | 77.27 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | HGWC-8 | 0.0003 | 0.00017 | 0.005 | No | 21 | 0.0002924 | 0.0003358 | 4.762 | None | No | 0.01 | NP (normality) |
| Cadmium (mg/L) | HGWC-9 | 0.0005 | 0.0002 | 0.005 | No | 21 | 0.0004462 | 0.0001368 | 85.71 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | MW-19 | 0.0003417 | 0.0001502 | 0.005 | No | 12 | 0.0003508 | 0.0002735 | 25 | Kaplan-Meier | ln(x) | 0.01 | Param. |
| Chromium (mg/L) | HGWC-10 | 0.02 | 0.0012 | 0.1 | No | 21 | 0.005348 | 0.00355 | 85.71 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-11 | 0.005 | 0.0012 | 0.1 | No | 21 | 0.004386 | 0.001547 | 85.71 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-12 | 0.005 | 0.0025 | 0.1 | No | 21 | 0.004467 | 0.001382 | 85.71 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-13 | 0.005 | 0.00059 | 0.1 | No | 21 | 0.00436 | 0.001608 | 85.71 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-7 | 0.005 | 0.0021 | 0.1 | No | 22 | 0.006984 | 0.0144 | 68.18 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-8 | 0.005 | 0.0015 | 0.1 | No | 21 | 0.004215 | 0.001666 | 80.95 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-9 | 0.005 | 0.0013 | 0.1 | No | 21 | 0.004219 | 0.001657 | 80.95 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-19 | 0.005 | 0.00059 | 0.1 | No | 12 | 0.003035 | 0.002099 | 50 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | MW-20 | 0.005 | 0.00068 | 0.1 | No | 12 | 0.003908 | 0.001975 | 75 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-24D | 0.005 | 0.0017 | 0.1 | No | 12 | 0.004343 | 0.001558 | 83.33 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-25D | 0.005 | 0.0012 | 0.1 | No | 12 | 0.004317 | 0.001599 | 83.33 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-26D | 0.005 | 0.001 | 0.1 | No | 12 | 0.003505 | 0.001913 | 58.33 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-27D | 0.005 | 0.00082 | 0.1 | No | 12 | 0.004293 | 0.001651 | 83.33 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-28D | 0.005 | 0.00081 | 0.1 | No | 12 | 0.003137 | 0.002009 | 50 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | MW-29 | 0.005 | 0.001 | 0.1 | No | 12 | 0.004667 | 0.001155 | 91.67 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-5 | 0.003948 | 0.002236 | 0.1 | No | 12 | 0.003092 | 0.001091 | 0 | None | No | 0.01 | Param. |
| Chromium (mg/L) | MW-6 | 0.005 | 0.00059 | 0.1 | No | 12 | 0.003952 | 0.001908 | 75 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-7 | 0.005 | 0.0015 | 0.1 | No | 12 | 0.002292 | 0.001295 | 16.67 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | HGWC-10 | 0.005 | 0.0009 | 0.038 | No | 21 | 0.00379 | 0.001963 | 71.43 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | HGWC-11 | 0.005 | 0.0014 | 0.038 | No | 21 | 0.003103 | 0.001799 | 42.86 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | HGWC-12 | 0.0018 | 0.0012 | 0.038 | No | 21 | 0.00151 | 0.0004265 | 9.524 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | HGWC-13 | 0.004201 | 0.002611 | 0.038 | No | 21 | 0.003686 | 0.002213 | 4.762 | None | ln(x) | 0.01 | Param. |
| Cobalt (mg/L) | HGWC-7 | 0.00147 | 0.0007471 | 0.038 | No | 22 | 0.001179 | 0.0007416 | 13.64 | None | sqrt(x) | 0.01 | Param. |
| Cobalt (mg/L) | HGWC-8 | 0.002242 | 0.001945 | 0.038 | No | 21 | 0.002094 | 0.0002693 | 9.524 | None | No | 0.01 | Param. |
| Cobalt (mg/L) | HGWC-9 | 0.0007 | 0.00051 | 0.038 | No | 21 | 0.0008643 | 0.0006357 | 9.524 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | MW-19 | 0.04167 | 0.0295 | 0.038 | No | 12 | 0.03558 | 0.007751 | 0 | None | No | 0.01 | Param. |
| Cobalt (mg/L) | MW-20 | 0.005 | 0.0011 | 0.038 | No | 12 | 0.004675 | 0.001126 | 91.67 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MW-24D | 0.005 | 0.00056 | 0.038 | No | 12 | 0.003909 | 0.001982 | 75 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MW-26D | 0.005 | 0.00044 | 0.038 | No | 12 | 0.001979 | 0.002232 | 33.33 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | MW-27D | 0.005 | 0.0004 | 0.038 | No | 12 | 0.003828 | 0.002121 | 75 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MW-28D | 0.005 | 0.00093 | 0.038 | No | 12 | 0.004661 | 0.001175 | 91.67 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MW-29 | 0.001228 | 0.0007098 | 0.038 | No | 12 | 0.0009692 | 0.0003305 | 0 | None | No | 0.01 | Param. |
| Cobalt (mg/L) | MW-6 | 0.005 | 0.00041 | 0.038 | No | 12 | 0.001263 | 0.001752 | 16.67 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | HGWC-10 | 1.067 | 0.604 | 5 | No | 23 | 0.8353 | 0.4423 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-11 | 1.134 | 0.6526 | 5 | No | 23 | 0.8934 | 0.4603 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-12 | 1.031 | 0.5721 | 5 | No | 23 | 0.8014 | 0.4385 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-13 | 0.9792 | 0.5965 | 5 | No | 23 | 0.7879 | 0.3658 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-7 | 0.8409 | 0.4167 | 5 | No | 24 | 0.6782 | 0.4762 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-8 | 0.9538 | 0.656 | 5 | No | 23 | 0.8049 | 0.2847 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-9 | 0.8913 | 0.5289 | 5 | No | 23 | 0.7101 | 0.3464 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-19 | 0.9587 | 0.412 | 5 | No | 12 | 0.6853 | 0.3484 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-20 | 1.002 | 0.3888 | 5 | No | 12 | 0.6953 | 0.3906 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-24D | 0.5788 | 0.1374 | 5 | No | 12 | 0.3767 | 0.3495 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-25D | 1.279 | 0.8145 | 5 | No | 12 | 1.047 | 0.296 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-26D | 0.9284 | 0.1186 | 5 | No | 12 | 0.5235 | 0.516 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-27D | 1.544 | 0.8213 | 5 | No | 12 | 1.196 | 0.5082 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-28D | 1.385 | 0.6077 | 5 | No | 12 | 0.9962 | 0.4951 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-29 | 0.9393 | 0.3837 | 5 | No | 12 | 0.6615 | 0.354 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-5 | 0.9737 | 0.5478 | 5 | No | 12 | 0.7608 | 0.2714 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-6 | 1.015 | 0.4421 | 5 | No | 12 | 0.7613 | 0.4499 | 0 | None | ln(x) | 0.01 | Param. |

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 1:13 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|---------|------------|------------|------------|------|----|-----------|------------|-------|--------------|-----------|-------|----------------|
| Combined Radium 226 + 228 (pCi/L) | MW-7 | 1.18 | 0.5086 | 5 | No | 12 | 0.8444 | 0.428 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-10 | 0.1861 | 0.08031 | 4 | No | 24 | 0.174 | 0.1317 | 16.67 | Kaplan-Meier | x^(1/3) | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-11 | 0.3995 | 0.2471 | 4 | No | 24 | 0.3355 | 0.1595 | 0 | None | sqrt(x) | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-12 | 0.34 | 0.17 | 4 | No | 24 | 0.3084 | 0.2332 | 4.167 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | HGWC-13 | 0.687 | 0.5004 | 4 | No | 24 | 0.5937 | 0.1829 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-7 | 0.15 | 0.084 | 4 | No | 26 | 0.145 | 0.1052 | 7.692 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | HGWC-8 | 0.63 | 0.45 | 4 | No | 25 | 0.556 | 0.1706 | 0 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | HGWC-9 | 0.2386 | 0.1022 | 4 | No | 24 | 0.1895 | 0.1498 | 8.333 | None | sqrt(x) | 0.01 | Param. |
| Fluoride (mg/L) | MW-19 | 0.2612 | 0.1025 | 4 | No | 12 | 0.1892 | 0.1289 | 0 | None | x^(1/3) | 0.01 | Param. |
| Fluoride (mg/L) | MW-20 | 0.1 | 0.074 | 4 | No | 12 | 0.09392 | 0.01119 | 75 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | MW-24D | 0.09451 | 0.04923 | 4 | No | 12 | 0.0855 | 0.03602 | 33.33 | Kaplan-Meier | sqrt(x) | 0.01 | Param. |
| Fluoride (mg/L) | MW-25D | 1.7 | 1.4 | 4 | No | 12 | 1.625 | 0.2006 | 0 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | MW-26D | 0.1259 | 0.05694 | 4 | No | 12 | 0.09142 | 0.04394 | 8.333 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | MW-27D | 0.3 | 0.22 | 4 | No | 12 | 0.2683 | 0.05219 | 0 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | MW-28D | 0.2415 | 0.1635 | 4 | No | 12 | 0.2025 | 0.04975 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | MW-29 | 0.18 | 0.068 | 4 | No | 12 | 0.09433 | 0.03293 | 58.33 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | MW-5 | 0.0865 | 0.05882 | 4 | No | 12 | 0.0795 | 0.01968 | 16.67 | Kaplan-Meier | No | 0.01 | Param. |
| Fluoride (mg/L) | MW-6 | 0.1052 | 0.05616 | 4 | No | 12 | 0.09983 | 0.05 | 16.67 | Kaplan-Meier | ln(x) | 0.01 | Param. |
| Fluoride (mg/L) | MW-7 | 0.17 | 0.069 | 4 | No | 12 | 0.09808 | 0.0268 | 66.67 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-10 | 0.001 | 0.00005 | 0.015 | No | 19 | 0.00095 | 0.0002179 | 94.74 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-11 | 0.001 | 0.00021 | 0.015 | No | 19 | 0.0007399 | 0.0003974 | 68.42 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-12 | 0.001 | 0.000096 | 0.015 | No | 19 | 0.0007757 | 0.0003928 | 73.68 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-13 | 0.001 | 0.00015 | 0.015 | No | 19 | 0.0007258 | 0.0004152 | 68.42 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-7 | 0.001 | 0.0001 | 0.015 | No | 20 | 0.0006997 | 0.0004322 | 55 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-8 | 0.001 | 0.0002 | 0.015 | No | 19 | 0.0008172 | 0.0003643 | 78.95 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-9 | 0.001 | 0.00014 | 0.015 | No | 19 | 0.0006481 | 0.000426 | 57.89 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | MW-19 | 0.001 | 0.000071 | 0.015 | No | 10 | 0.0006304 | 0.0004775 | 60 | None | No | 0.011 | NP (NDs) |
| Lead (mg/L) | MW-20 | 0.001 | 0.0001 | 0.015 | No | 10 | 0.0006439 | 0.0004608 | 60 | None | No | 0.011 | NP (NDs) |
| Lead (mg/L) | MW-24D | 0.001 | 0.000042 | 0.015 | No | 10 | 0.0005456 | 0.0004809 | 50 | None | No | 0.011 | NP (normality) |
| Lead (mg/L) | MW-26D | 0.001 | 0.0001 | 0.015 | No | 10 | 0.000818 | 0.0003837 | 80 | None | No | 0.011 | NP (NDs) |
| Lead (mg/L) | MW-27D | 0.001 | 0.00043 | 0.015 | No | 10 | 0.000856 | 0.0003117 | 80 | None | No | 0.011 | NP (NDs) |
| Lead (mg/L) | MW-28D | 0.001 | 0.00018 | 0.015 | No | 10 | 0.0007022 | 0.0003965 | 50 | None | No | 0.011 | NP (normality) |
| Lead (mg/L) | MW-29 | 0.001 | 0.00009 | 0.015 | No | 10 | 0.0007252 | 0.0004427 | 70 | None | No | 0.011 | NP (NDs) |
| Lead (mg/L) | MW-5 | 0.001 | 0.0001 | 0.015 | No | 10 | 0.0009047 | 0.0003014 | 90 | None | No | 0.011 | NP (NDs) |
| Lead (mg/L) | MW-6 | 0.001 | 0.000084 | 0.015 | No | 10 | 0.000651 | 0.000454 | 60 | None | No | 0.011 | NP (NDs) |
| Lead (mg/L) | MW-7 | 0.001 | 0.0001 | 0.015 | No | 10 | 0.0009062 | 0.0002966 | 90 | None | No | 0.011 | NP (NDs) |
| Lithium (mg/L) | HGWC-12 | 0.01048 | 0.008019 | 0.064 | No | 23 | 0.009248 | 0.00235 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | HGWC-13 | 0.03735 | 0.03093 | 0.064 | No | 23 | 0.03414 | 0.006137 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | HGWC-7 | 0.0026 | 0.002 | 0.064 | No | 24 | 0.002958 | 0.002614 | 4.167 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | HGWC-8 | 0.0029 | 0.0025 | 0.064 | No | 23 | 0.003196 | 0.002599 | 4.348 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | HGWC-9 | 0.0044 | 0.004 | 0.064 | No | 23 | 0.004596 | 0.002319 | 4.348 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | MW-19 | 0.01297 | 0.008428 | 0.064 | No | 12 | 0.01046 | 0.003347 | 0 | None | x^2 | 0.01 | Param. |
| Lithium (mg/L) | MW-20 | 0.03 | 0.00082 | 0.064 | No | 12 | 0.008322 | 0.01307 | 25 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | MW-24D | 0.002843 | 0.00254 | 0.064 | No | 12 | 0.002692 | 0.0001929 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MW-25D | 0.0502 | 0.0428 | 0.064 | No | 12 | 0.0465 | 0.004719 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MW-26D | 0.0041 | 0.0032 | 0.064 | No | 12 | 0.005775 | 0.007636 | 0 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | MW-27D | 0.008546 | 0.006254 | 0.064 | No | 12 | 0.0074 | 0.00146 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MW-28D | 0.01282 | 0.007277 | 0.064 | No | 12 | 0.01005 | 0.003534 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MW-29 | 0.002354 | 0.00203 | 0.064 | No | 12 | 0.002192 | 0.0002065 | 0 | None | No | 0.01 | Param. |
| Mercury (mg/L) | HGWC-10 | 0.0002 | 0.00005 | 0.002 | No | 15 | 0.00019 | 0.00003873 | 93.33 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | HGWC-11 | 0.0002 | 0.00005 | 0.002 | No | 15 | 0.00019 | 0.00003873 | 93.33 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | HGWC-13 | 0.0002 | 0.00005 | 0.002 | No | 15 | 0.0001793 | 0.00005457 | 86.67 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | HGWC-9 | 0.0002 | 0.00004 | 0.002 | No | 15 | 0.0001893 | 0.00004131 | 93.33 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | HGWC-10 | 0.01 | 0.0014 | 0.1 | No | 23 | 0.006591 | 0.004354 | 60.87 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | HGWC-11 | 0.02635 | 0.01705 | 0.1 | No | 23 | 0.0217 | 0.008891 | 0 | None | No | 0.01 | Param. |

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 1:13 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|--------------------------|---------------|---------------|---------------|------------|------------|-----------|---------------|----------------|----------|--------------|------------|-------------|----------------|
| Molybdenum (mg/L) | HGWC-12 | 0.04914 | 0.04557 | 0.1 | No | 23 | 0.04735 | 0.003411 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-13 | 0.03523 | 0.03001 | 0.1 | No | 23 | 0.03262 | 0.004987 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-7 | 0.04271 | 0.03586 | 0.1 | No | 25 | 0.03928 | 0.006866 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-8 | 0.4856 | 0.4241 | 0.1 | Yes | 24 | 0.4513 | 0.06596 | 0 | None | x^2 | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-9 | 0.033 | 0.0236 | 0.1 | No | 23 | 0.04746 | 0.09377 | 0 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | MW-19 | 0.05279 | 0.02587 | 0.1 | No | 12 | 0.03933 | 0.01715 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-24D | 0.01 | 0.0008 | 0.1 | No | 12 | 0.00392 | 0.004496 | 33.33 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | MW-25D | 0.01 | 0.0022 | 0.1 | No | 12 | 0.008595 | 0.003292 | 83.33 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | MW-26D | 0.02425 | 0.01175 | 0.1 | No | 13 | 0.018 | 0.008412 | 7.692 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-27D | 0.003636 | 0.001403 | 0.1 | No | 12 | 0.002583 | 0.001576 | 8.333 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum (mg/L) | MW-28D | 0.01969 | 0.007547 | 0.1 | No | 12 | 0.01362 | 0.007735 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-29 | 0.003287 | 0.002479 | 0.1 | No | 12 | 0.002883 | 0.0005149 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-6 | 0.002699 | 0.002284 | 0.1 | No | 12 | 0.002492 | 0.0002644 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-7 | 0.01 | 0.0014 | 0.1 | No | 12 | 0.005283 | 0.004211 | 41.67 | None | No | 0.01 | NP (normality) |
| Selenium (mg/L) | HGWC-10 | 0.005 | 0.0031 | 0.05 | No | 23 | 0.004174 | 0.001266 | 65.22 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-11 | 0.01395 | 0.006463 | 0.05 | No | 23 | 0.0102 | 0.007153 | 0 | None | No | 0.01 | Param. |
| Selenium (mg/L) | HGWC-12 | 0.005 | 0.0011 | 0.05 | No | 23 | 0.00483 | 0.0008132 | 95.65 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-13 | 0.005 | 0.0016 | 0.05 | No | 23 | 0.004643 | 0.001203 | 91.3 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-8 | 0.005 | 0.0024 | 0.05 | No | 23 | 0.004887 | 0.0005421 | 95.65 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-9 | 0.005 | 0.0037 | 0.05 | No | 23 | 0.004943 | 0.0002711 | 95.65 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MW-19 | 0.00488 | 0.002282 | 0.05 | No | 12 | 0.00395 | 0.001709 | 16.67 | Kaplan-Meier | No | 0.01 | Param. |
| Selenium (mg/L) | MW-27D | 0.005 | 0.00012 | 0.05 | No | 12 | 0.004593 | 0.001409 | 91.67 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MW-5 | 0.003736 | 0.002447 | 0.05 | No | 12 | 0.003092 | 0.0008218 | 0 | None | No | 0.01 | Param. |
| Selenium (mg/L) | MW-7 | 0.005 | 0.0014 | 0.05 | No | 12 | 0.003383 | 0.00172 | 50 | None | No | 0.01 | NP (normality) |
| Thallium (mg/L) | HGWC-11 | 0.001 | 0.00008 | 0.002 | No | 23 | 0.00092 | 0.0002651 | 91.3 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | HGWC-12 | 0.001 | 0.0002 | 0.002 | No | 23 | 0.0007663 | 0.0004029 | 73.91 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | HGWC-13 | 0.0004273 | 0.0003377 | 0.002 | No | 23 | 0.0003825 | 0.00008561 | 8.696 | None | No | 0.01 | Param. |
| Thallium (mg/L) | HGWC-8 | 0.001 | 0.00011 | 0.002 | No | 23 | 0.0007247 | 0.0004261 | 69.57 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | MW-19 | 0.001 | 0.00023 | 0.002 | No | 12 | 0.0005025 | 0.0003683 | 33.33 | None | No | 0.01 | NP (normality) |
| Thallium (mg/L) | MW-28D | 0.001 | 0.000092 | 0.002 | No | 12 | 0.0009243 | 0.0002621 | 91.67 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | MW-29 | 0.001 | 0.000064 | 0.002 | No | 12 | 0.000922 | 0.0002702 | 91.67 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | MW-6 | 0.001 | 0.000082 | 0.002 | No | 12 | 0.0009235 | 0.000265 | 91.67 | None | No | 0.01 | NP (NDs) |

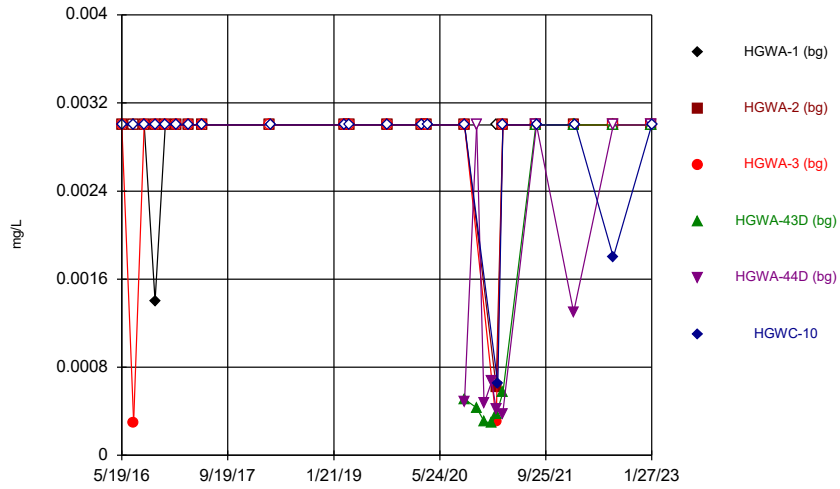
Appendix IV Trend Tests - All Results (No Significant)

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 1:16 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------|---------------|------------|-------|----------|------|----|-------|-----------|-------|-------|--------|
| Arsenic (mg/L) | HGWA-1 (bg) | 0 | -11 | -98 | No | 23 | 86.96 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | HGWA-2 (bg) | 0 | 34 | 98 | No | 23 | 60.87 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | HGWA-3 (bg) | 0 | 22 | 98 | No | 23 | 60.87 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | HGWA-43D (bg) | 0 | 5 | 30 | No | 10 | 40 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | HGWA-44D (bg) | 0 | -10 | -30 | No | 10 | 70 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | HGWC-13 | 0.01498 | 85 | 98 | No | 23 | 0 | n/a | n/a | 0.01 | NP |
| Molybdenum (mg/L) | HGWA-1 (bg) | 0 | 0 | 105 | No | 24 | 100 | n/a | n/a | 0.01 | NP |
| Molybdenum (mg/L) | HGWA-2 (bg) | 0 | 0 | 98 | No | 23 | 100 | n/a | n/a | 0.01 | NP |
| Molybdenum (mg/L) | HGWA-3 (bg) | 0 | 0 | 105 | No | 24 | 100 | n/a | n/a | 0.01 | NP |
| Molybdenum (mg/L) | HGWA-43D (bg) | -0.0007215 | -20 | -30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Molybdenum (mg/L) | HGWA-44D (bg) | 0.000373 | 20 | 30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Molybdenum (mg/L) | HGWC-8 | -0.01469 | -99 | -105 | No | 24 | 0 | n/a | n/a | 0.01 | NP |

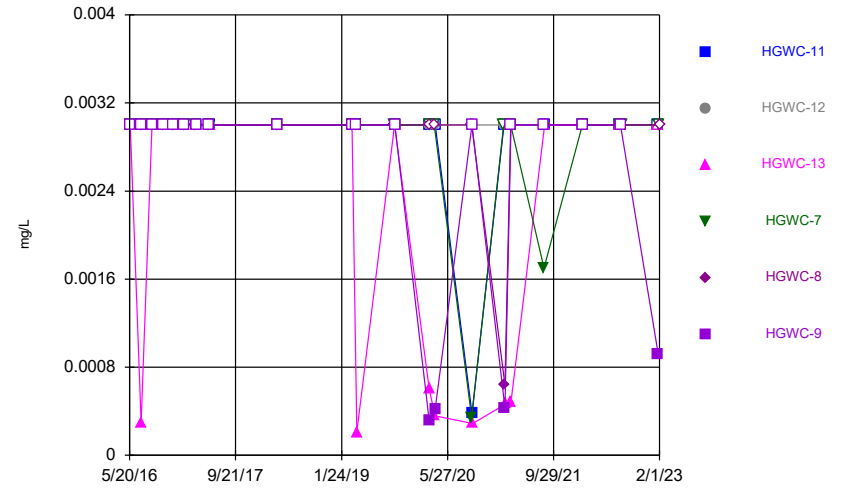
FIGURE A.

Time Series



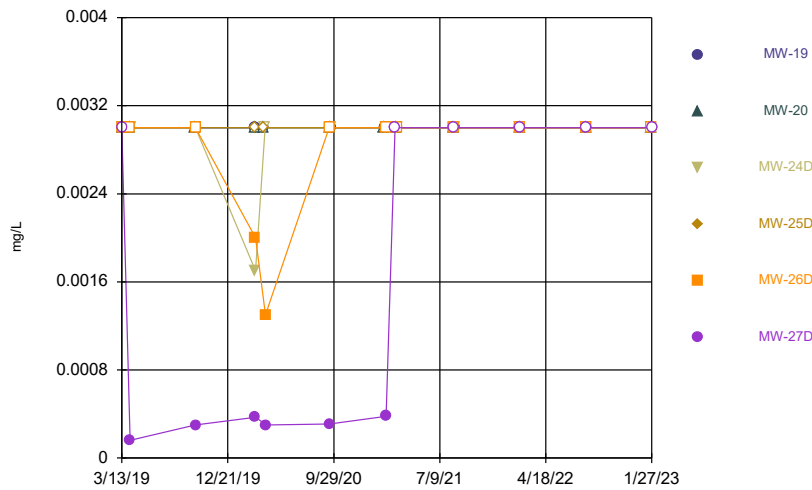
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



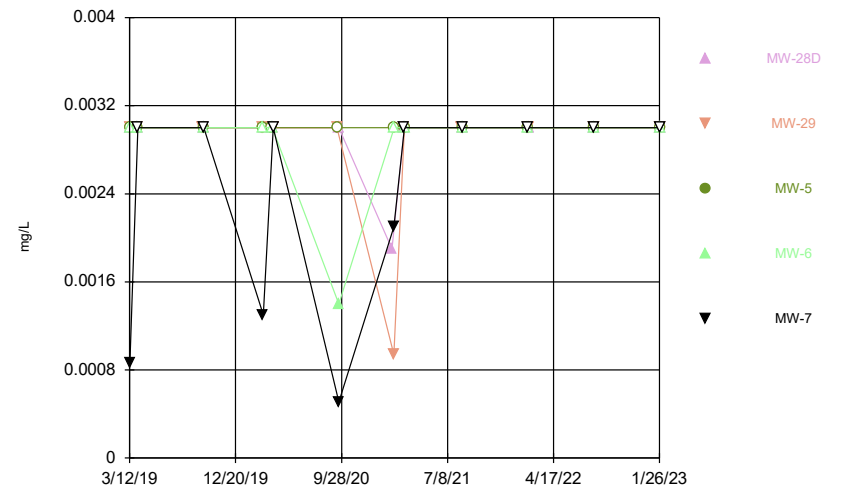
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Time Series



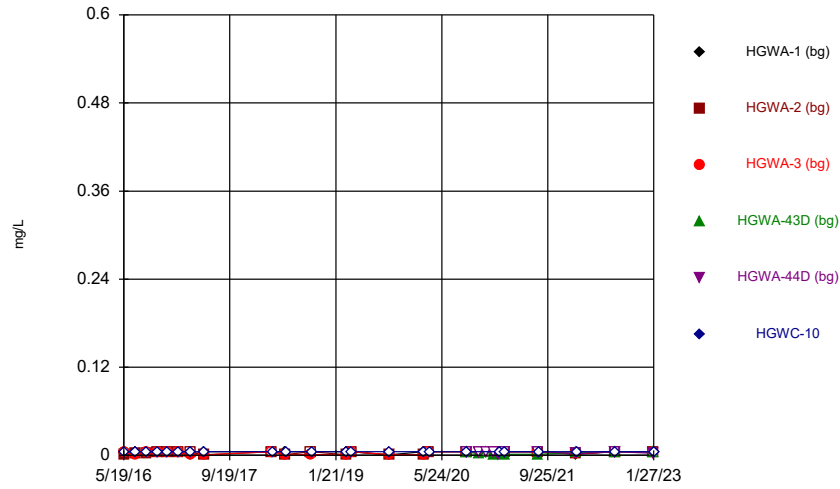
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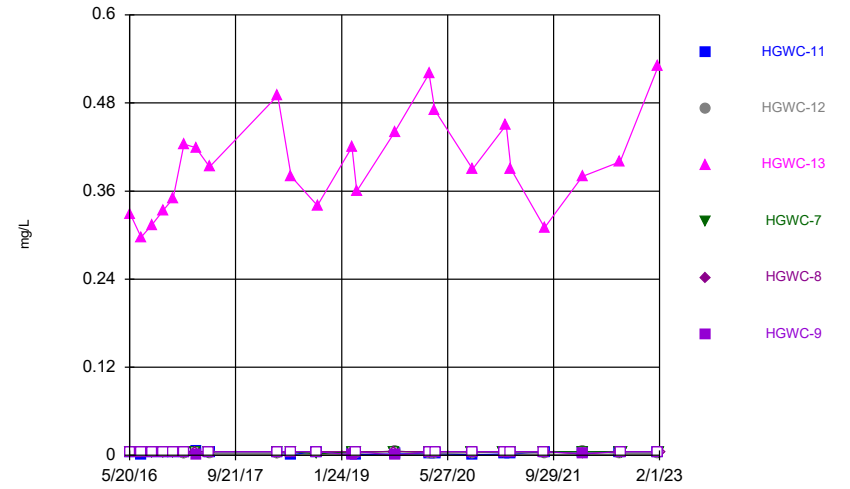
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Time Series



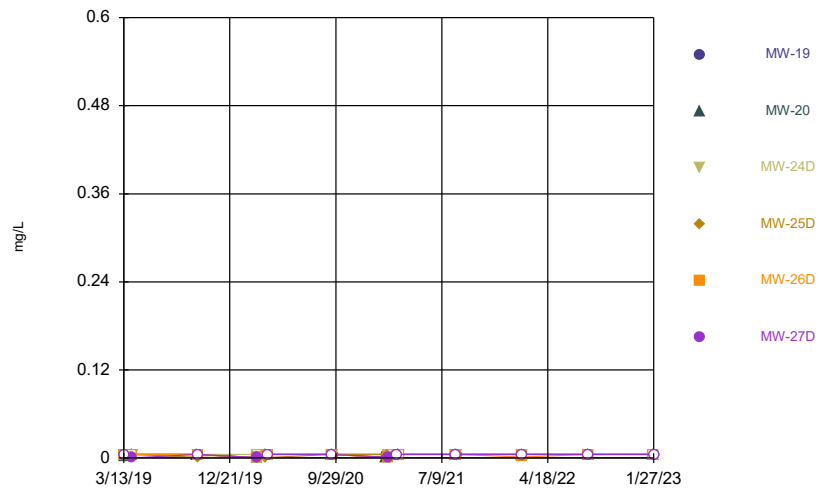
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Time Series



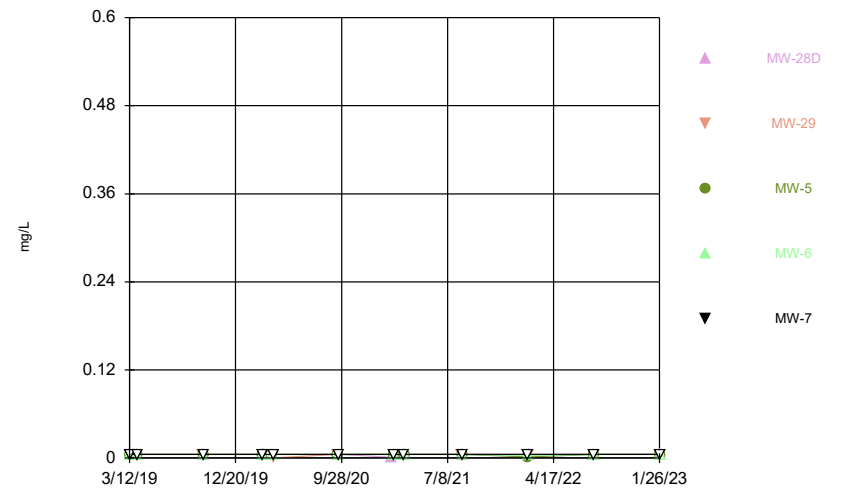
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Time Series



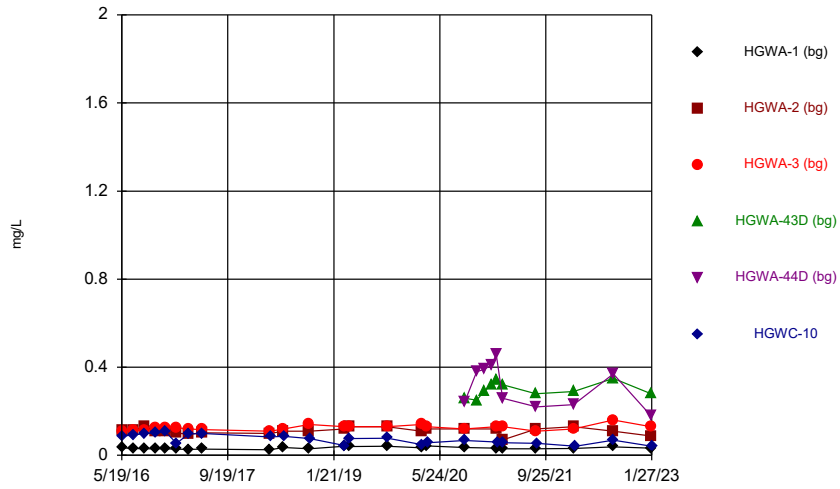
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Time Series



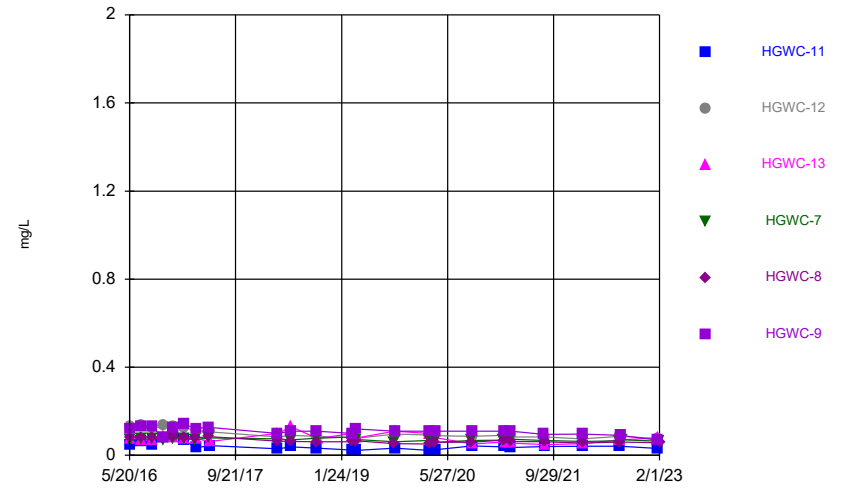
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Time Series



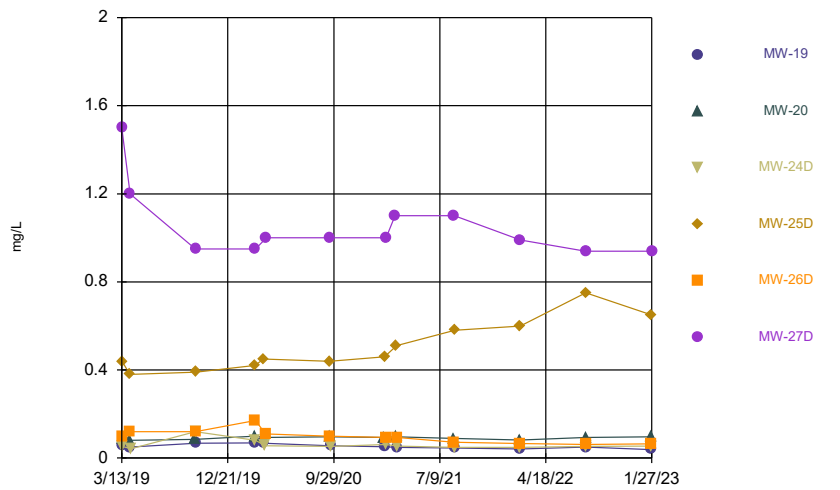
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Time Series



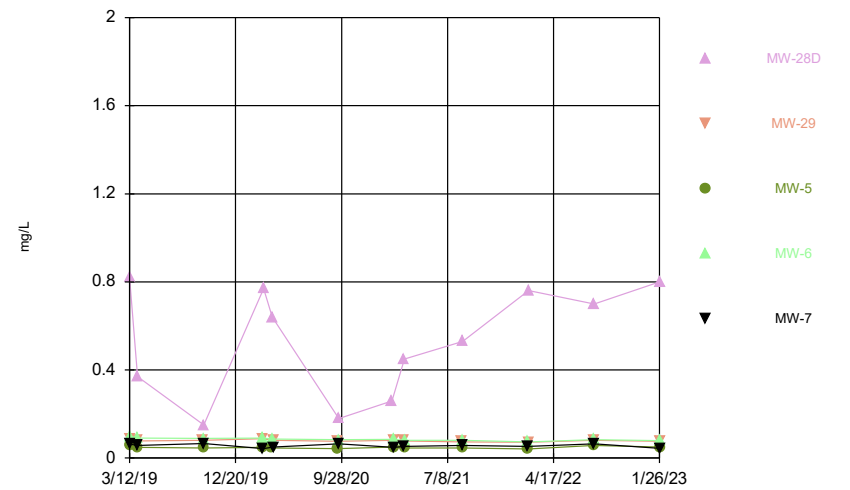
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Time Series



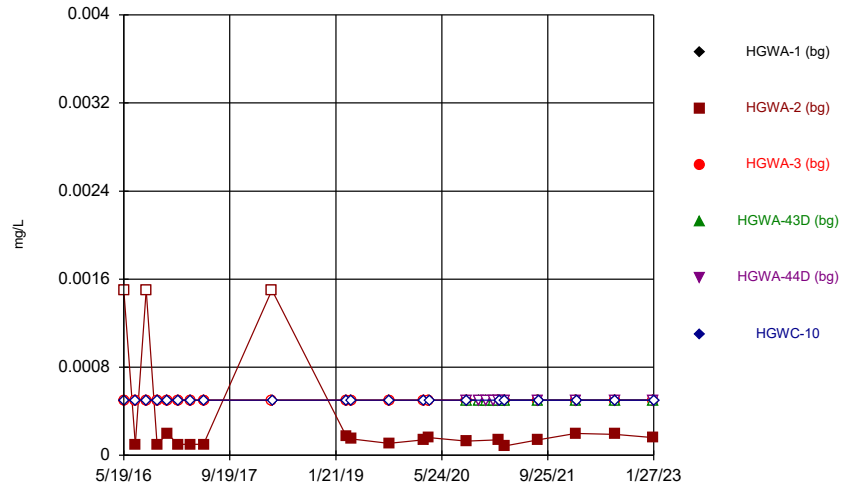
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Time Series



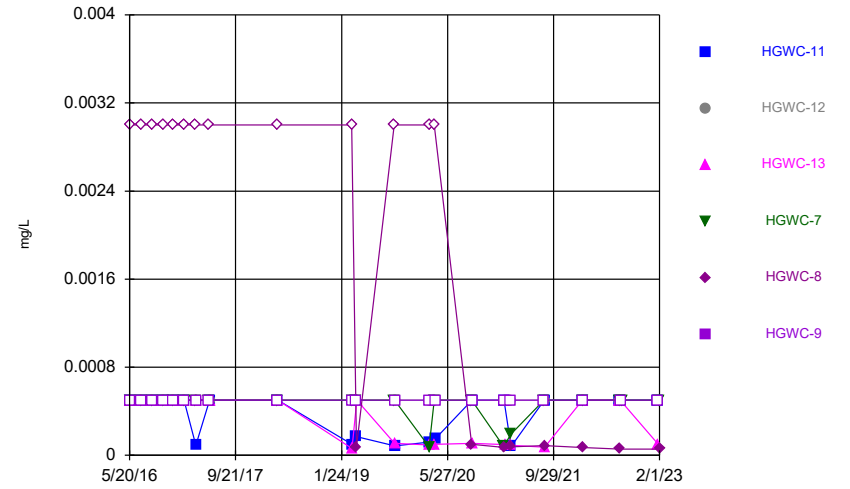
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Time Series



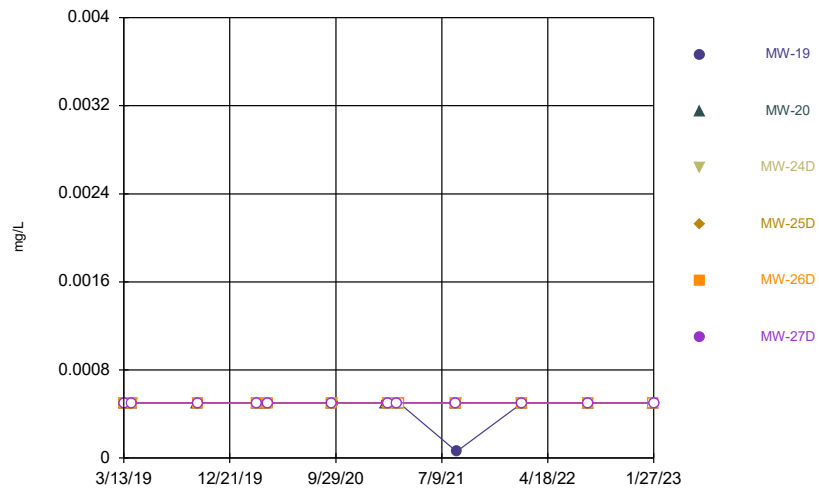
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Time Series



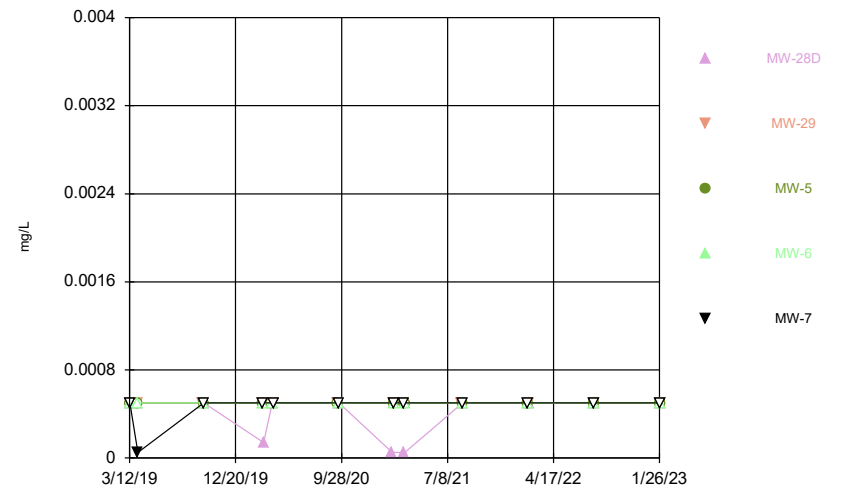
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Time Series



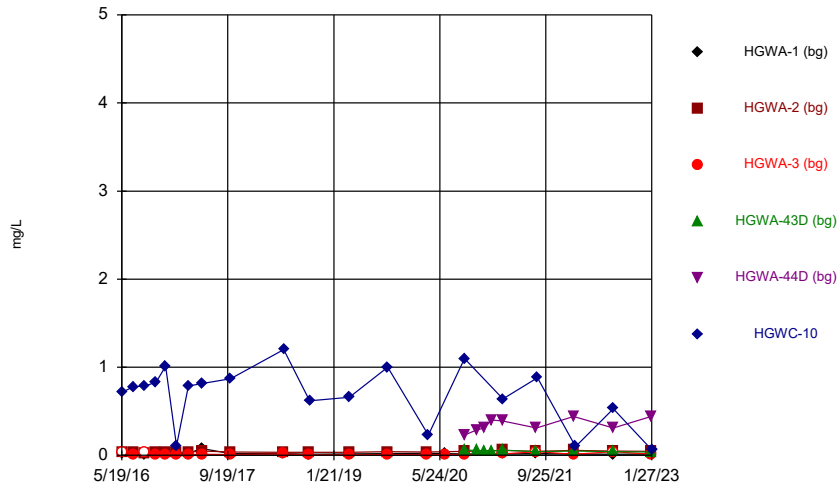
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Time Series



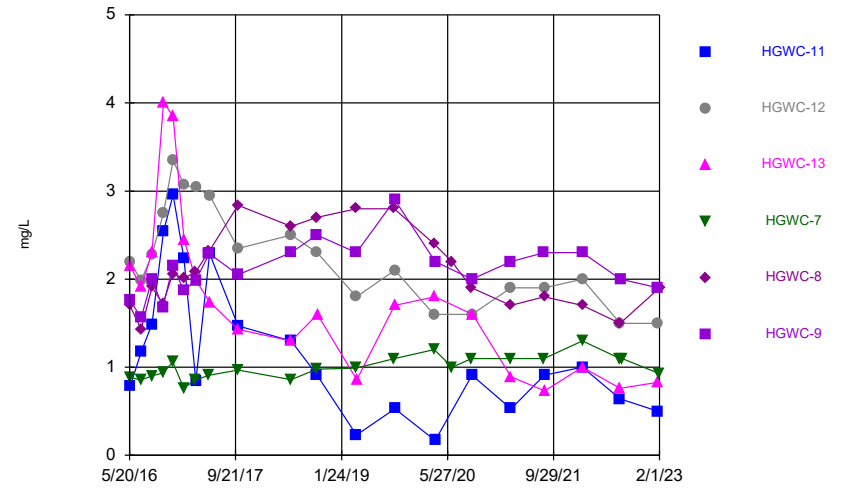
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



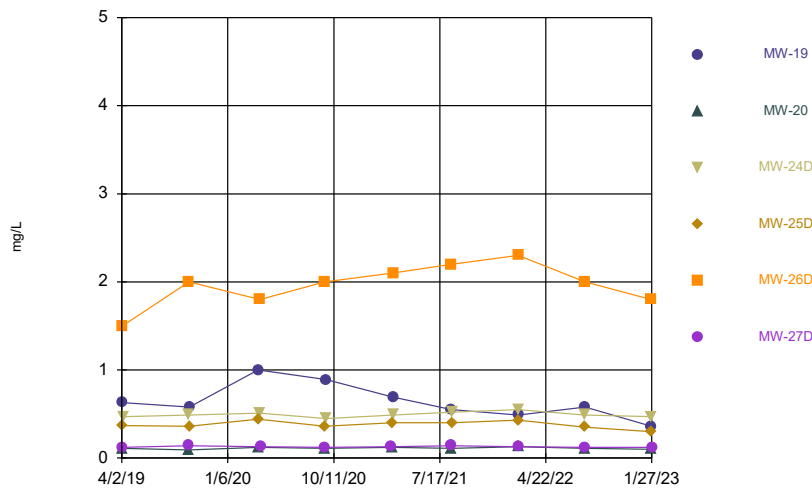
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



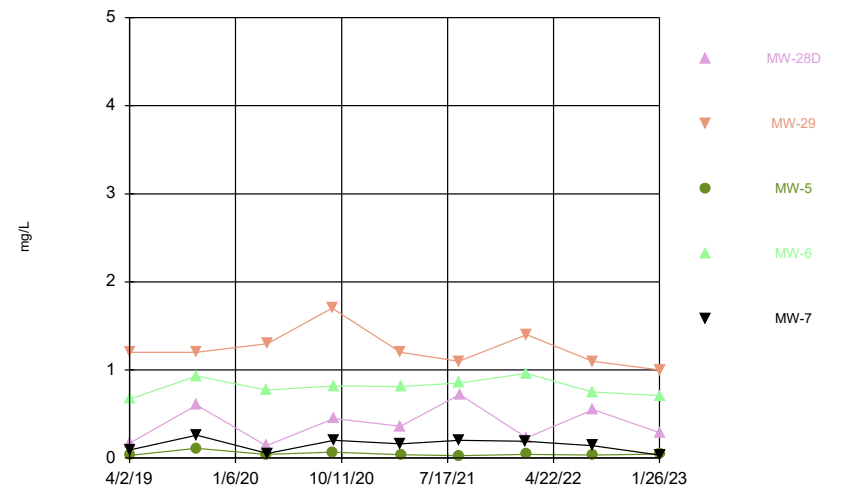
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



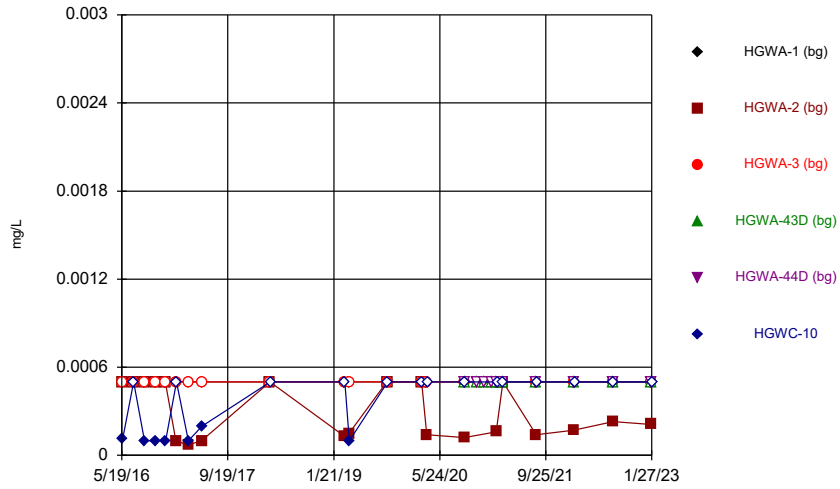
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



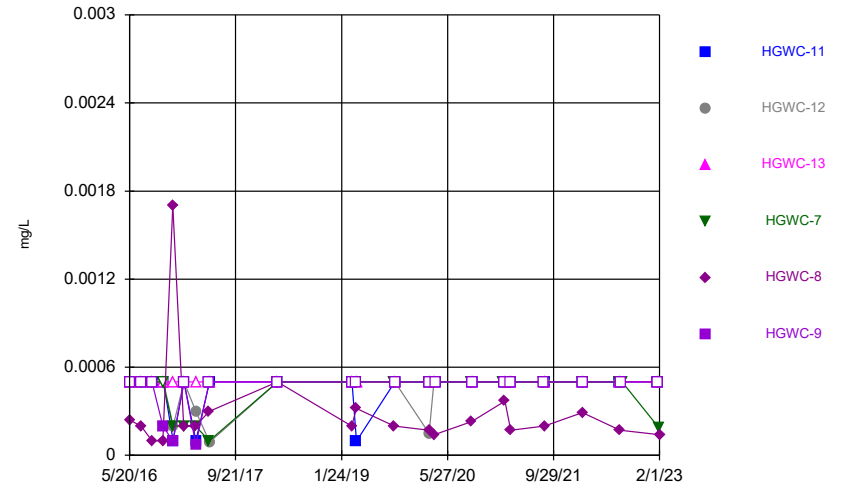
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



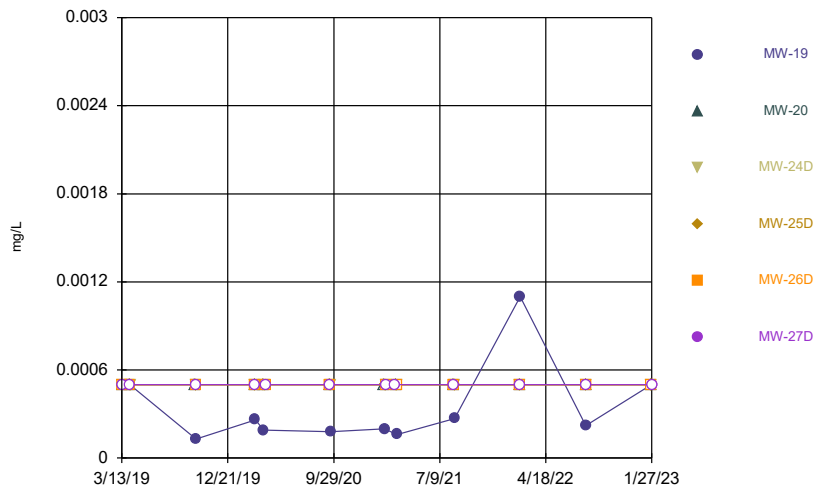
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Time Series



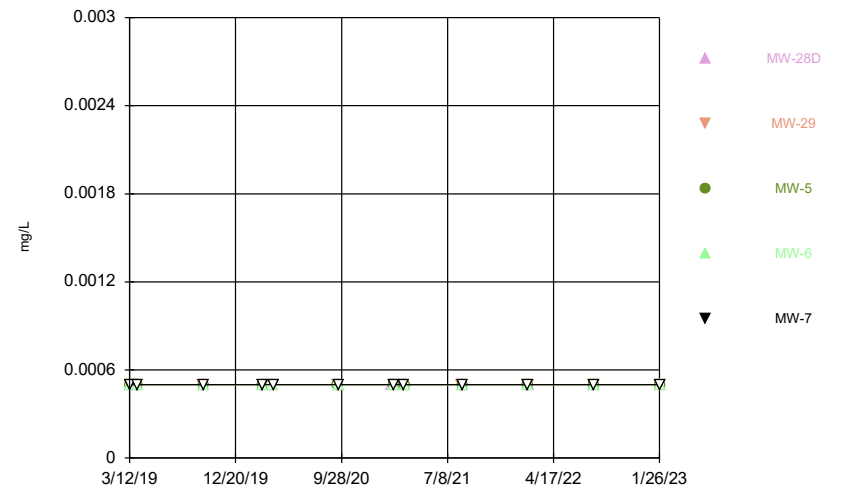
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Time Series



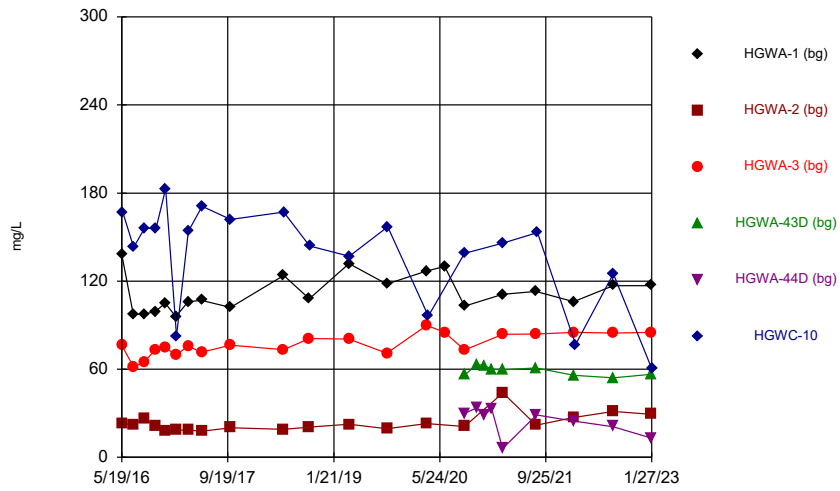
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Time Series



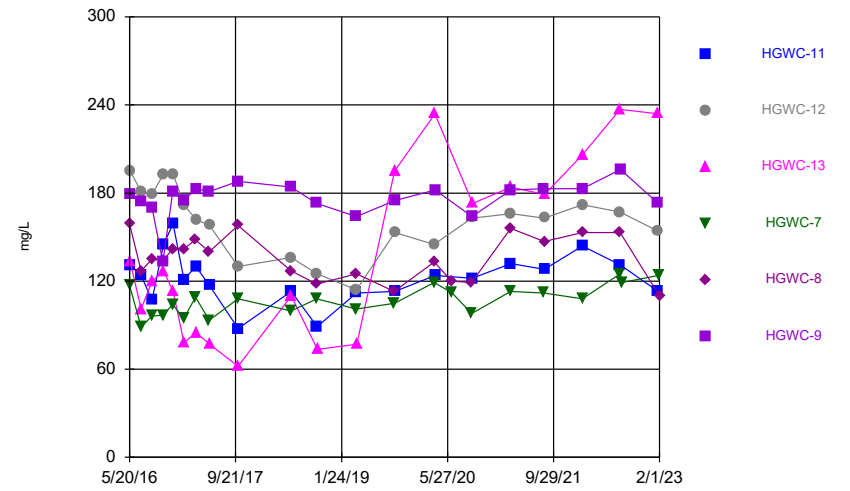
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Time Series



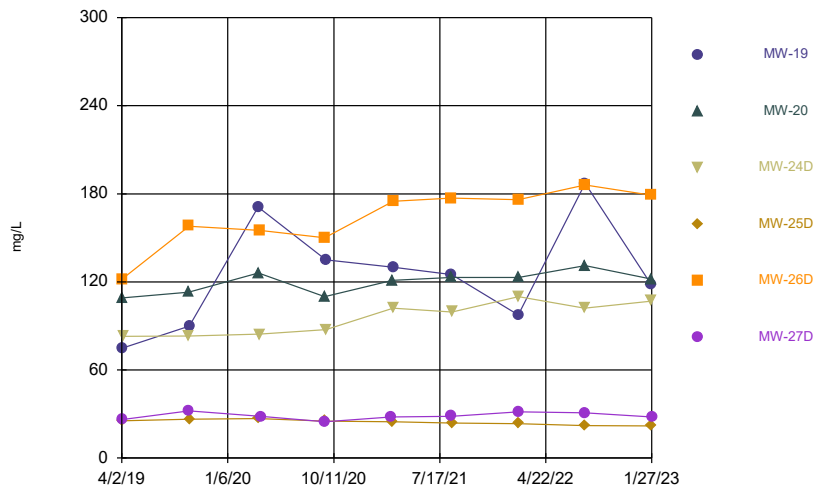
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



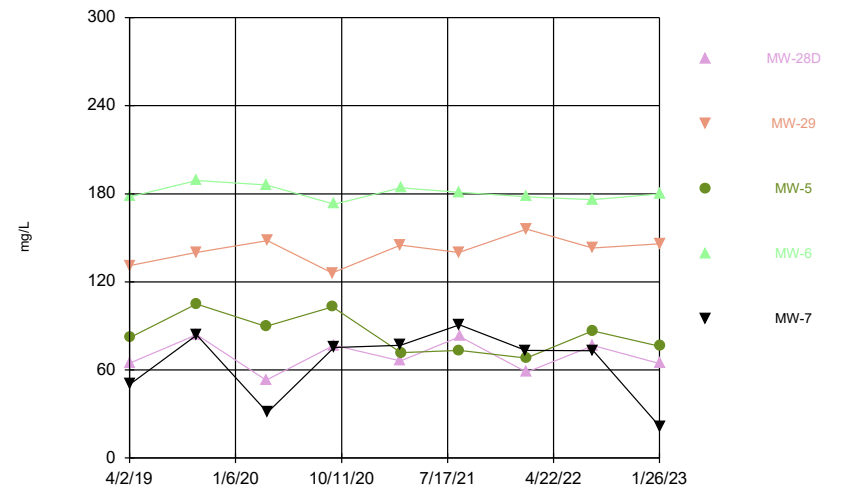
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Time Series



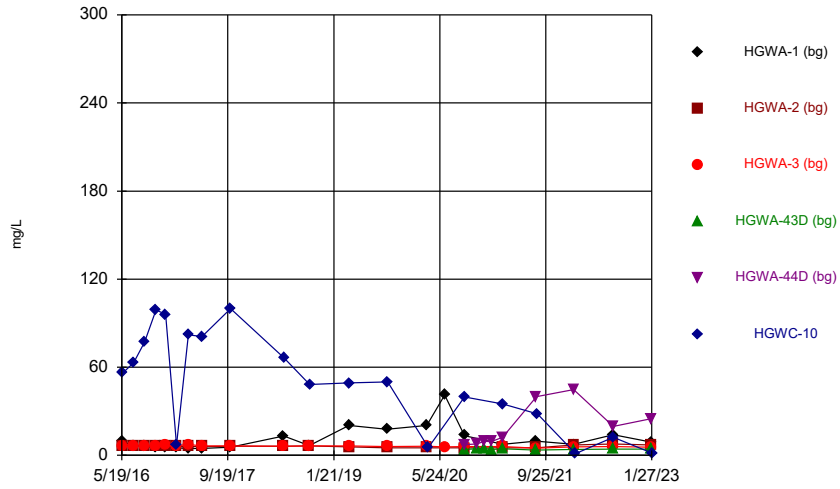
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Time Series



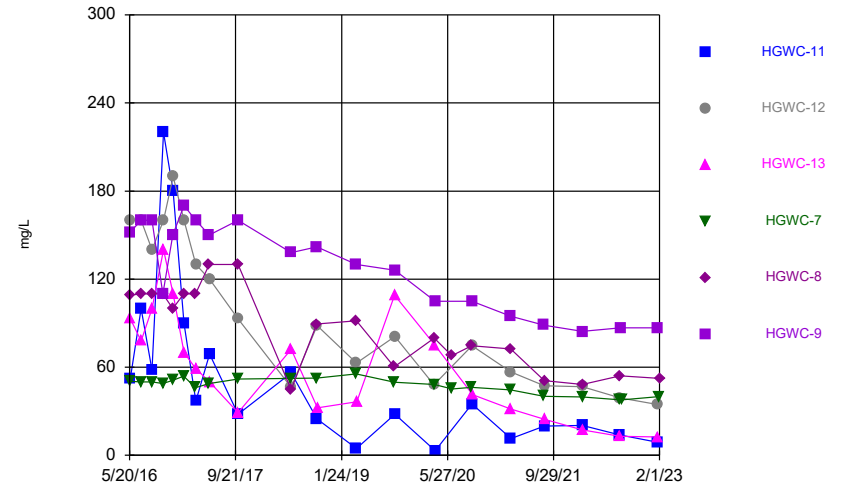
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Time Series



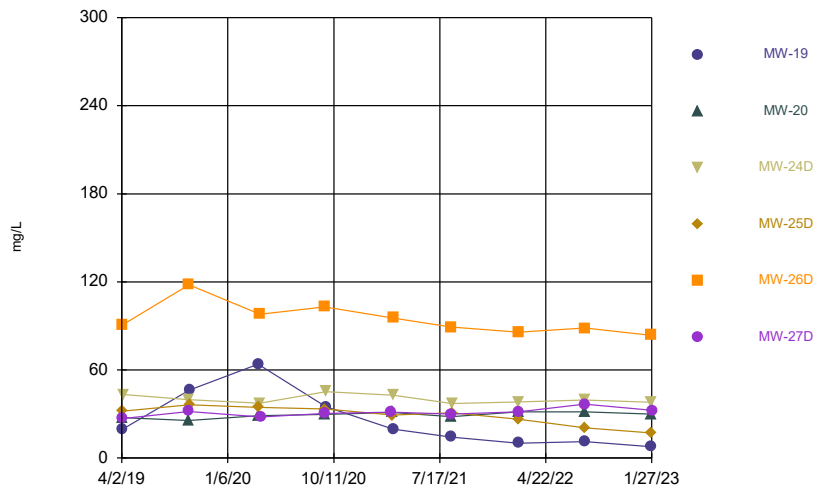
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



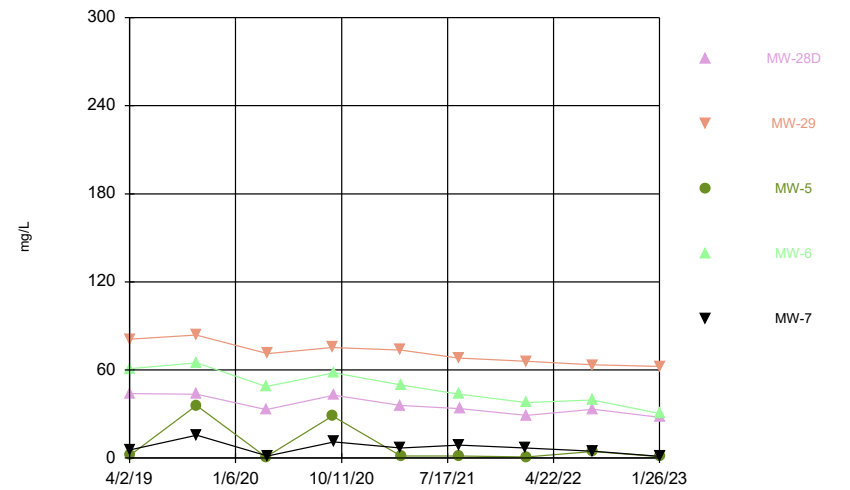
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



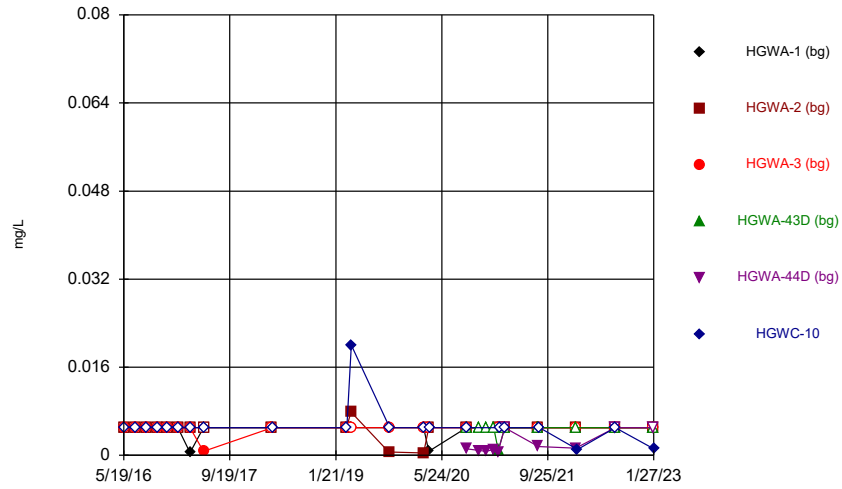
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Time Series



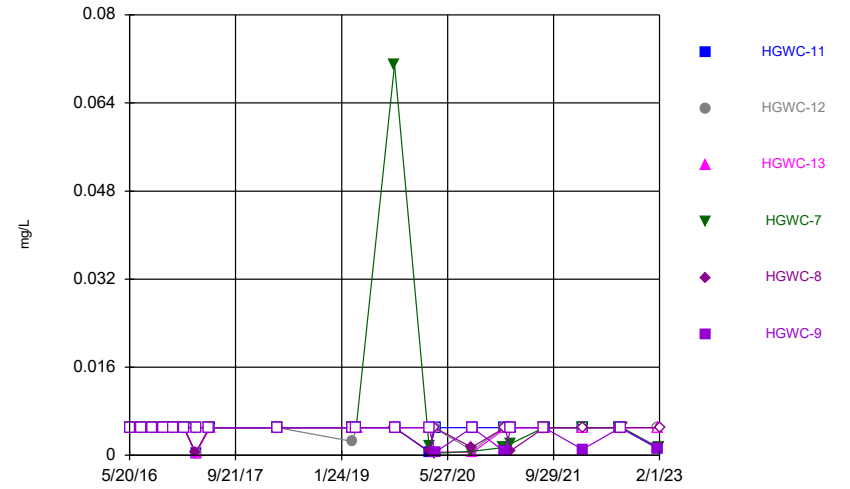
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Time Series



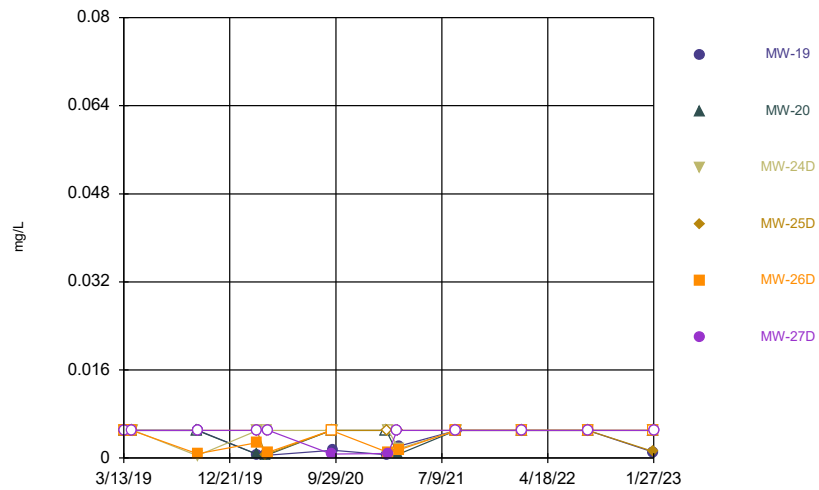
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Time Series



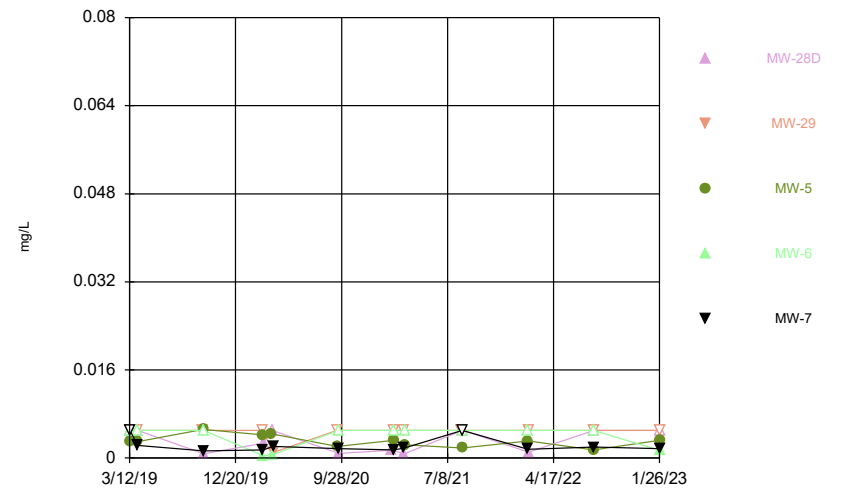
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Time Series



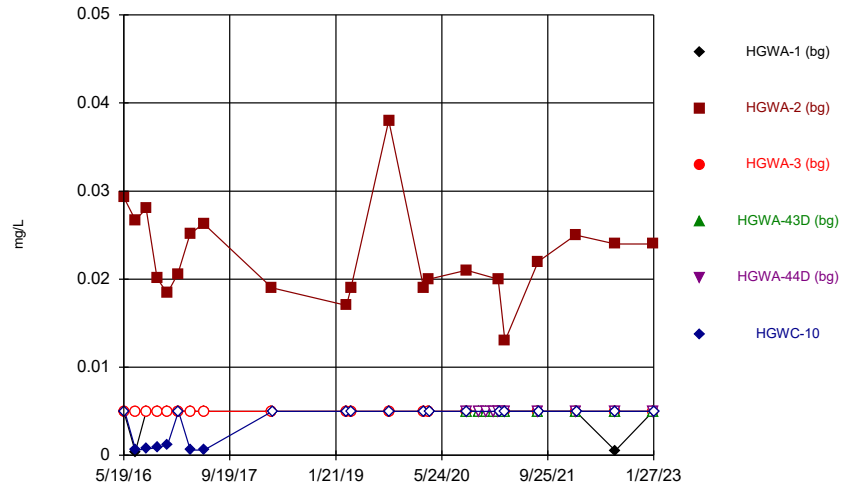
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Time Series



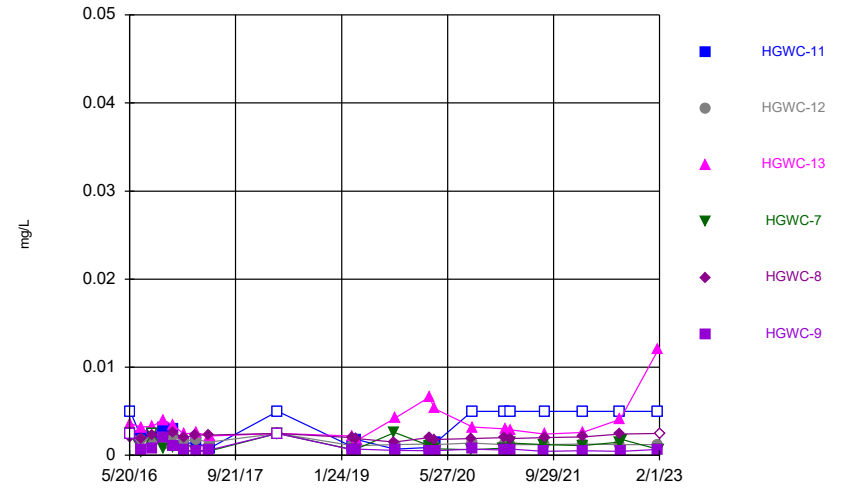
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Time Series



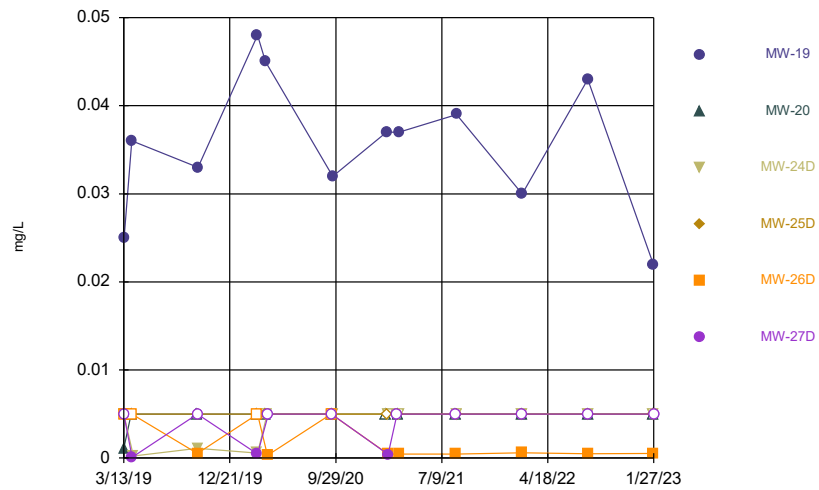
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



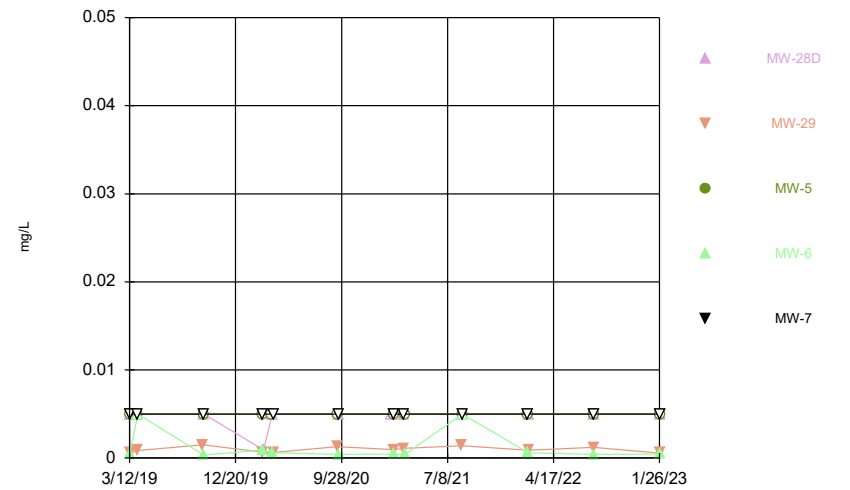
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Time Series



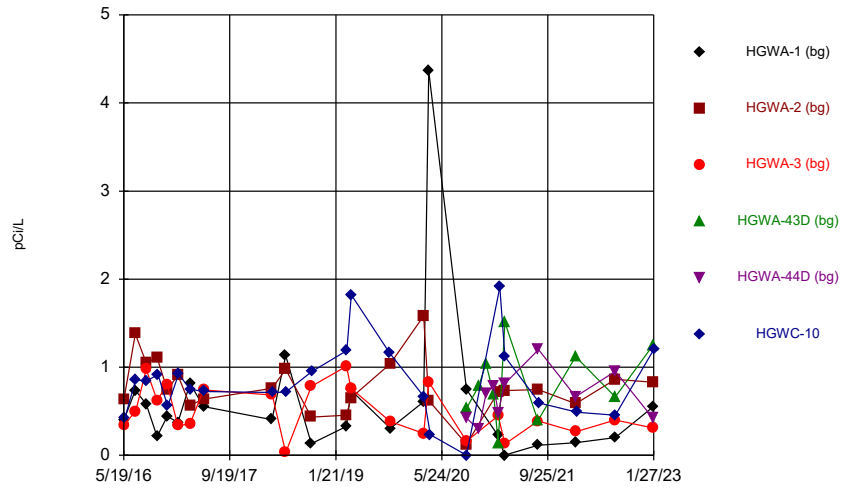
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Time Series



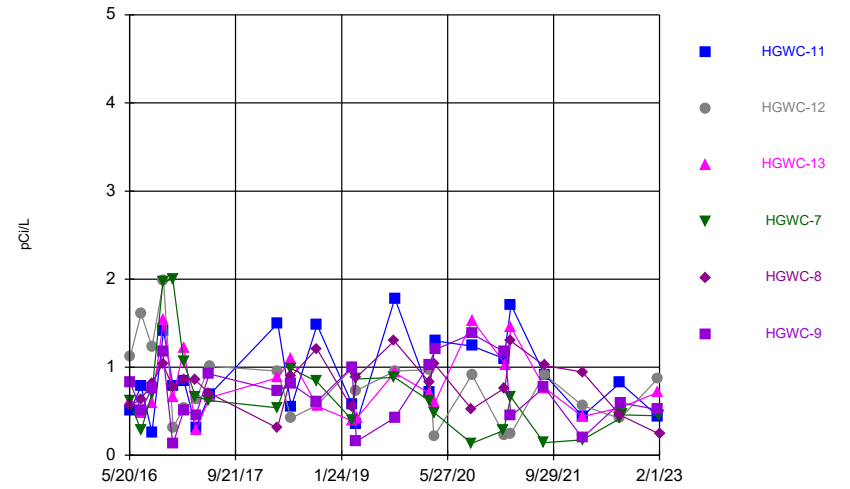
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Time Series



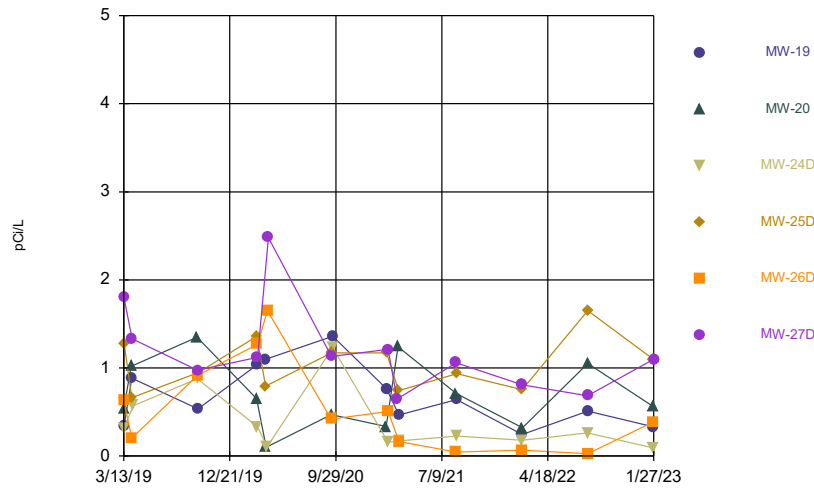
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Time Series



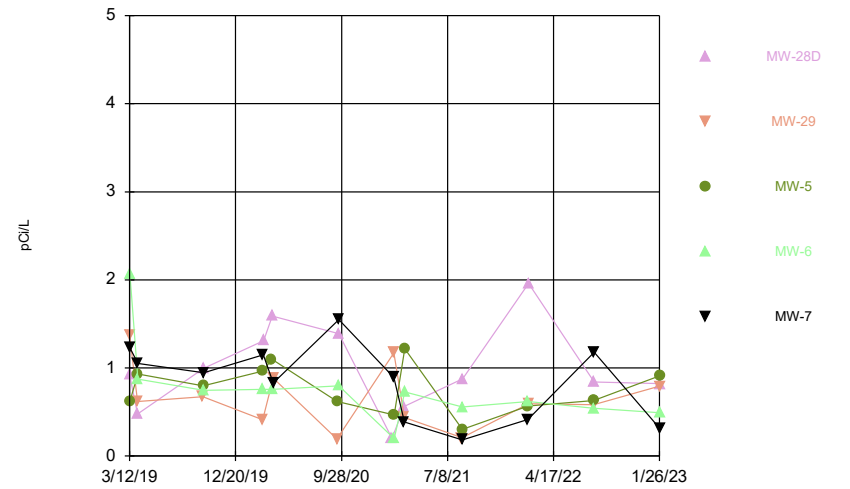
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Time Series



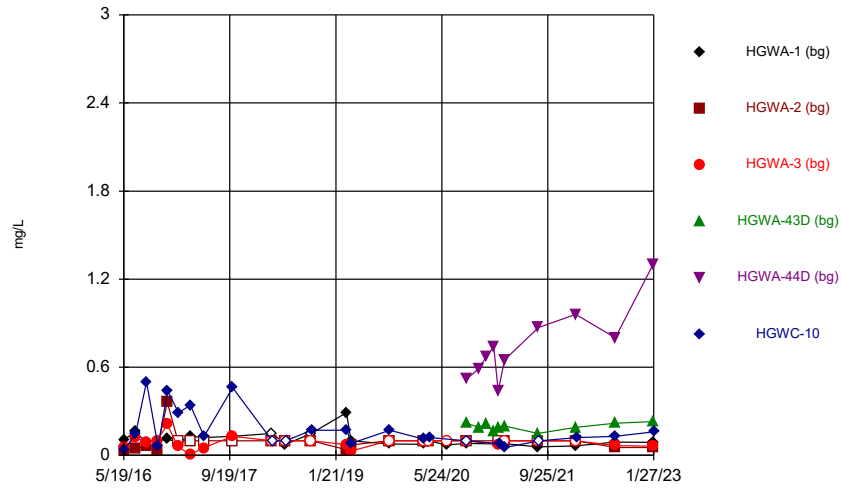
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Time Series



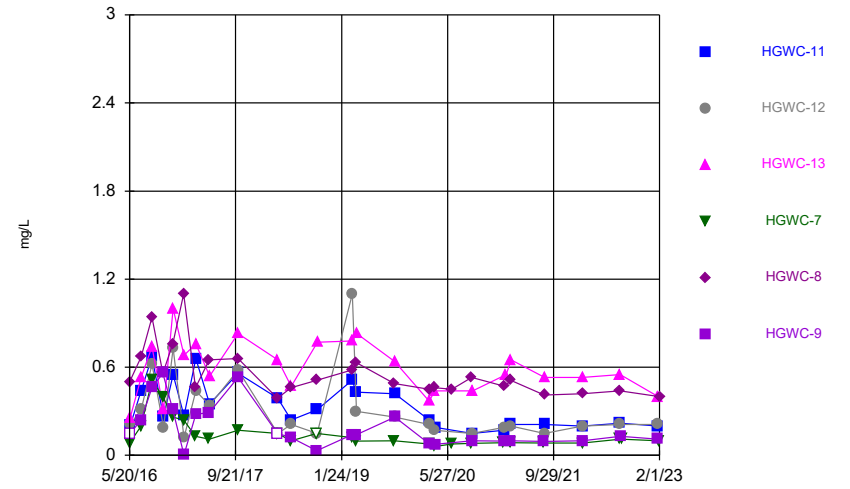
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Time Series



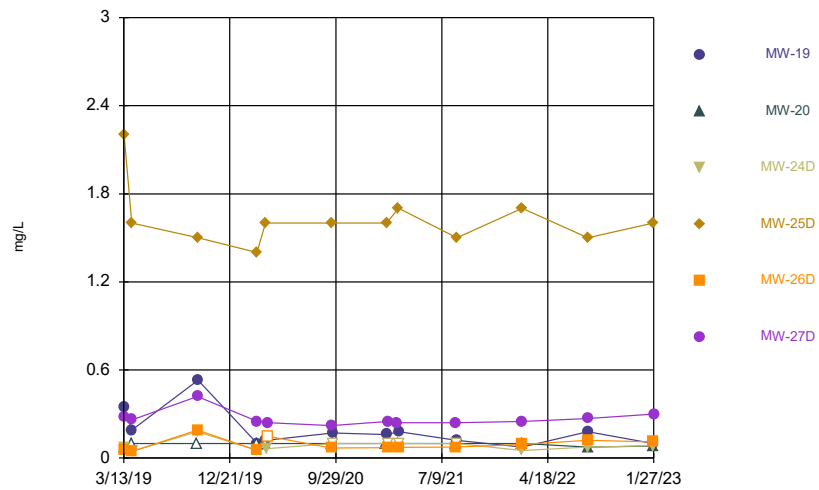
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Time Series



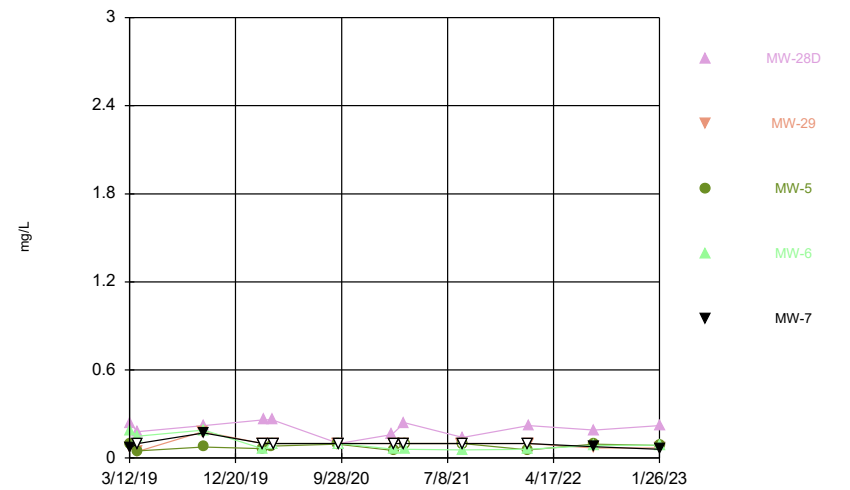
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Time Series



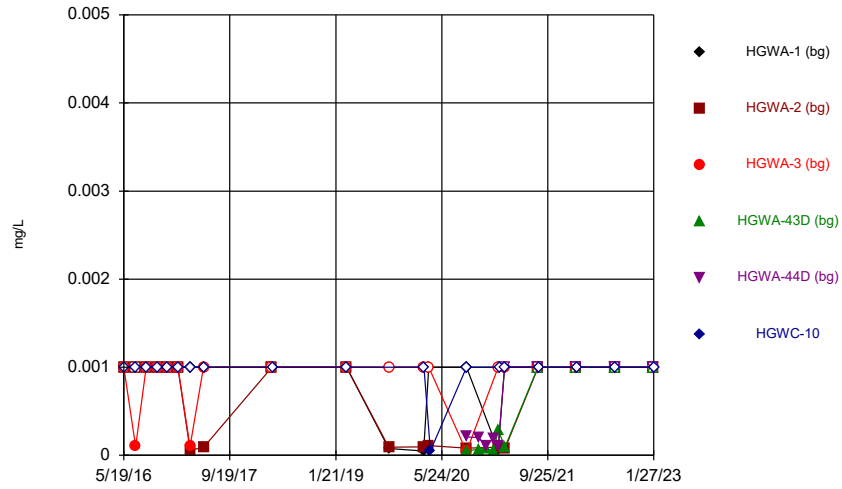
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Time Series



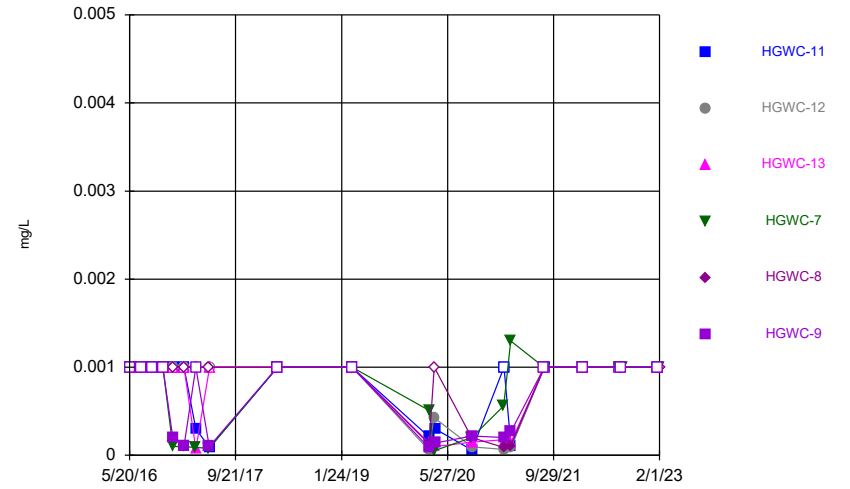
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Time Series



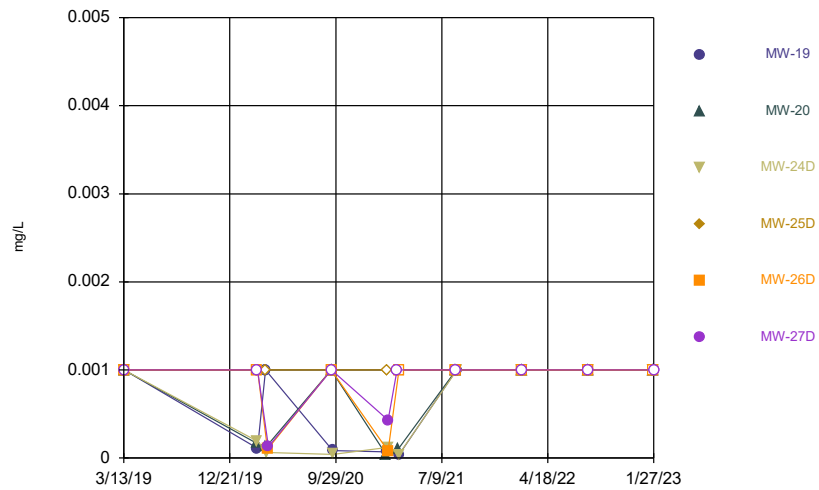
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Time Series



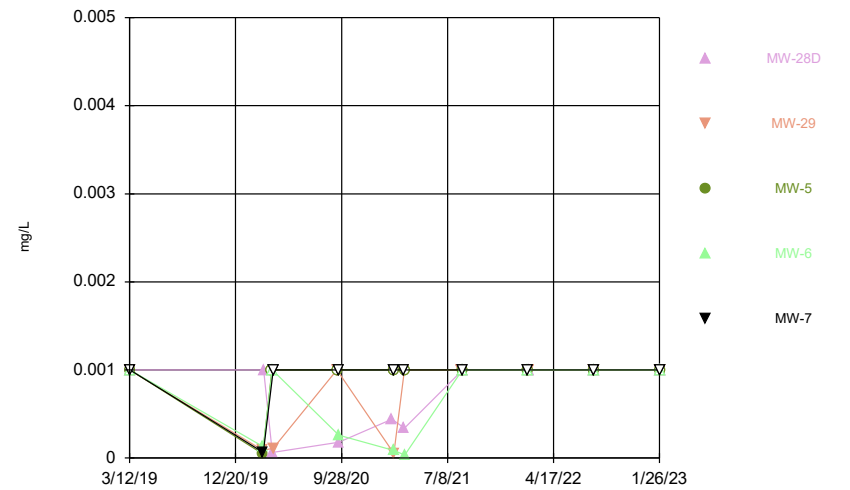
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Time Series



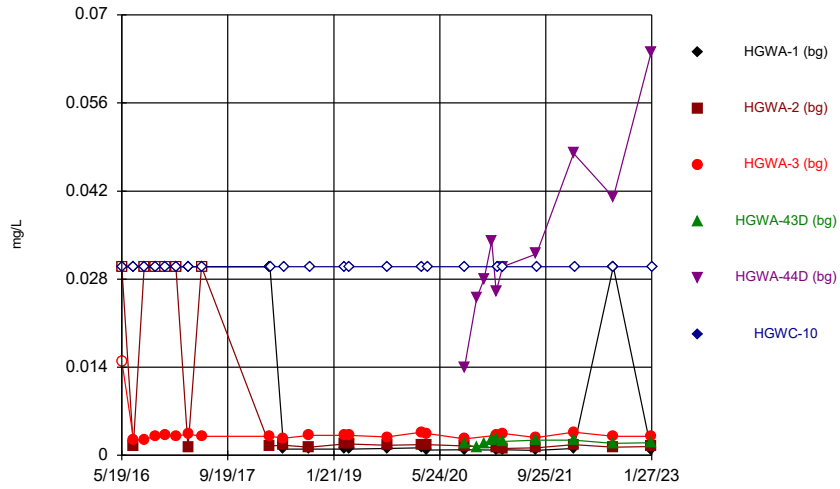
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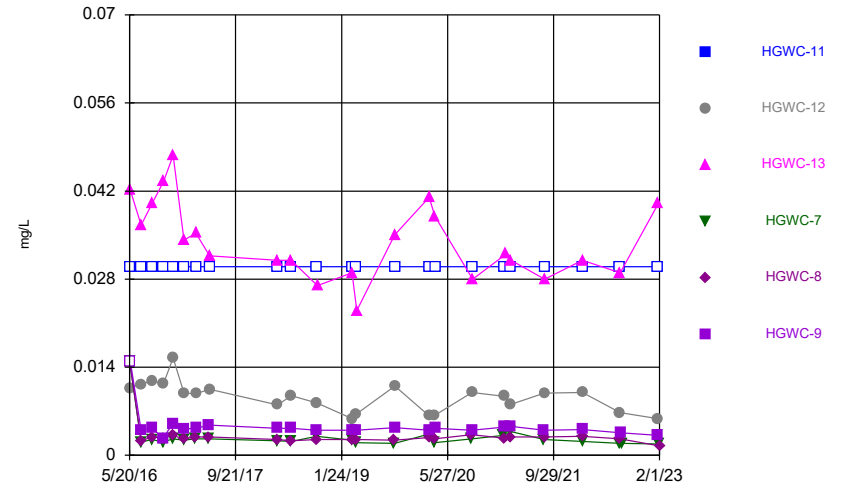
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Time Series



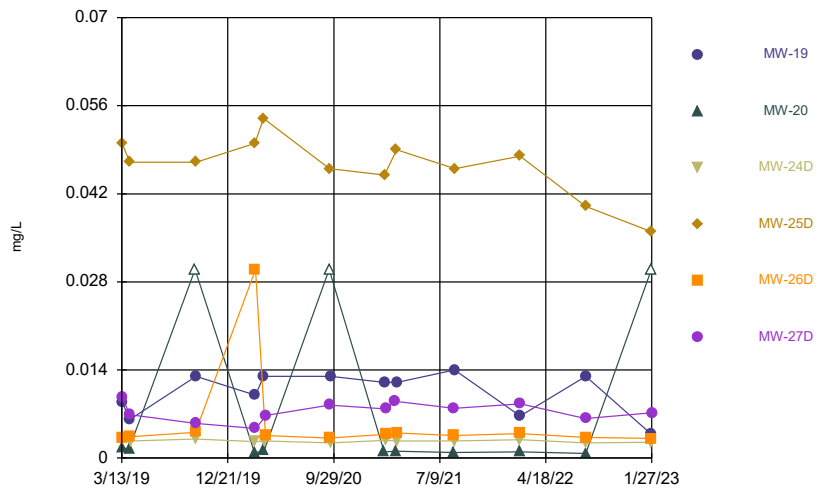
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Time Series



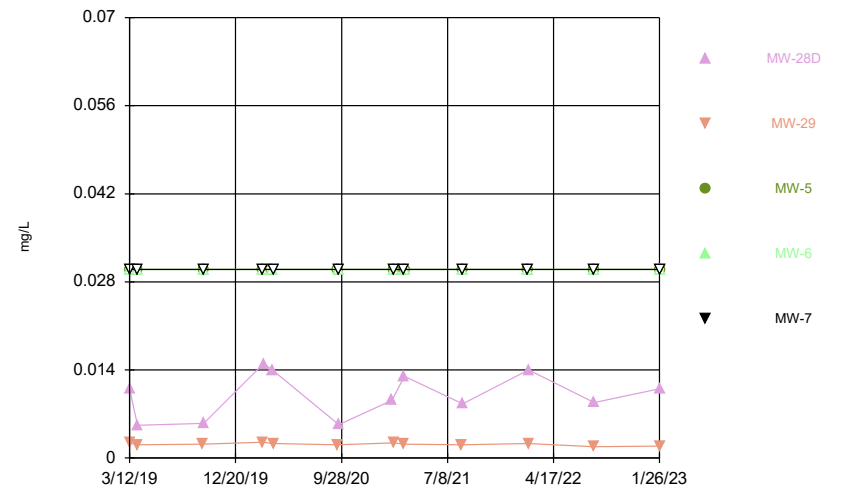
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Time Series



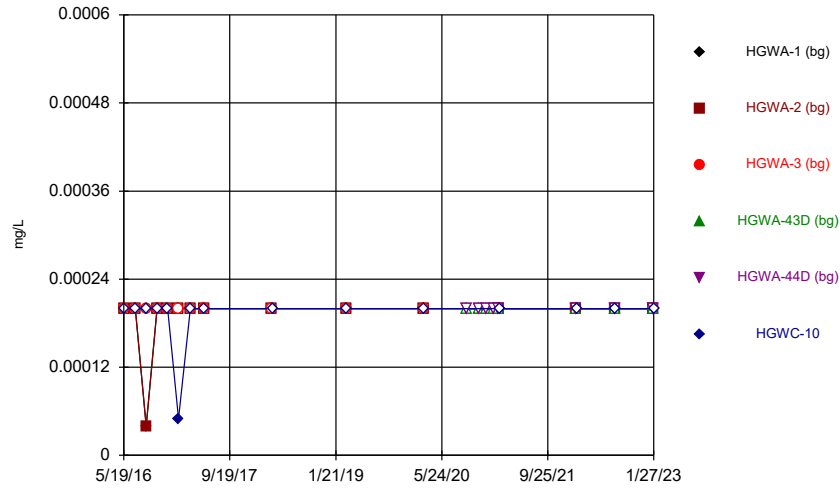
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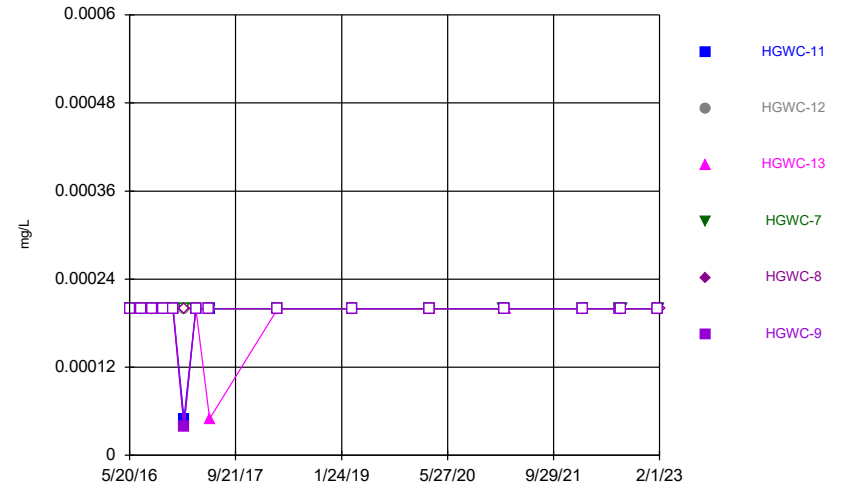
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Time Series



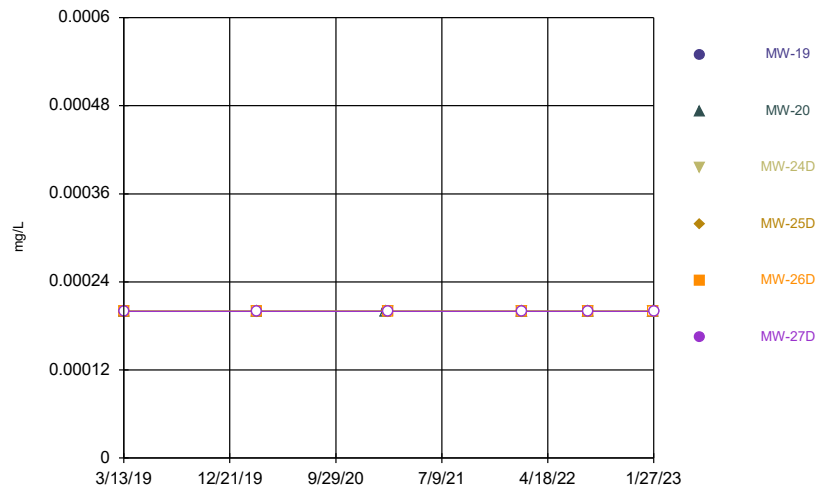
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Time Series



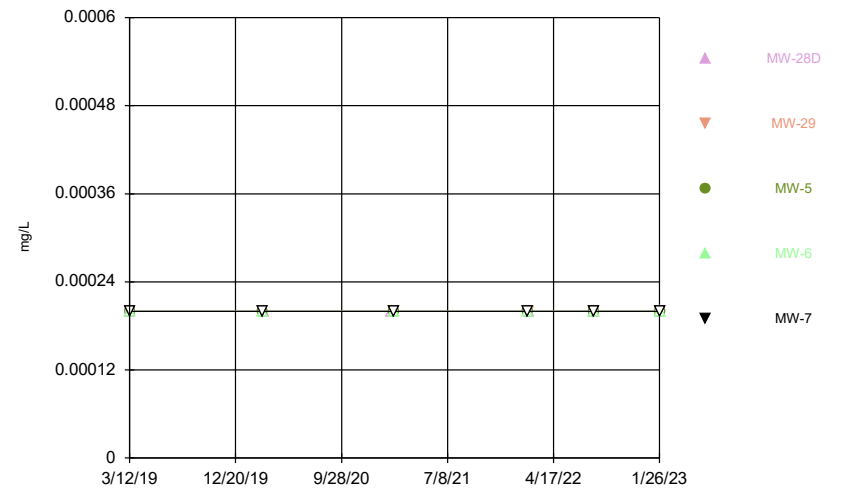
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Time Series



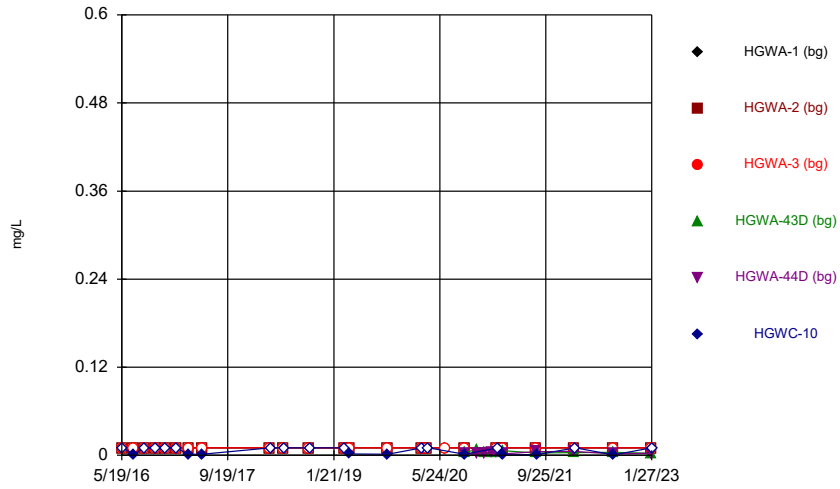
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Time Series



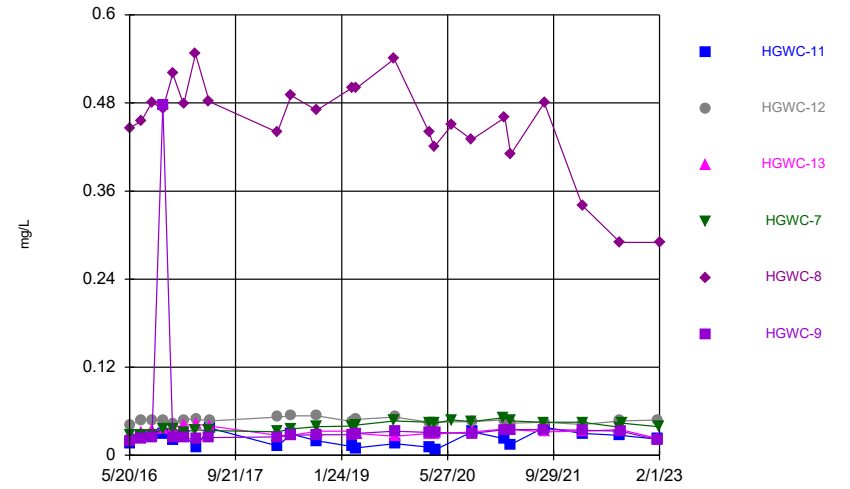
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Time Series



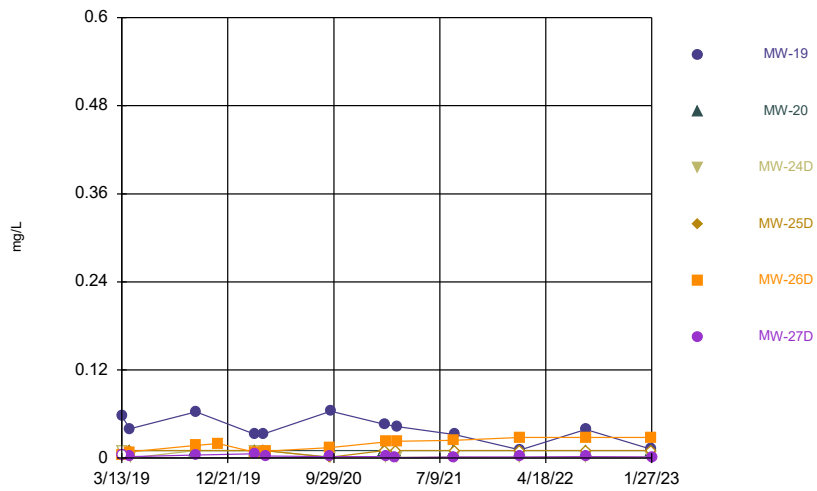
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Time Series



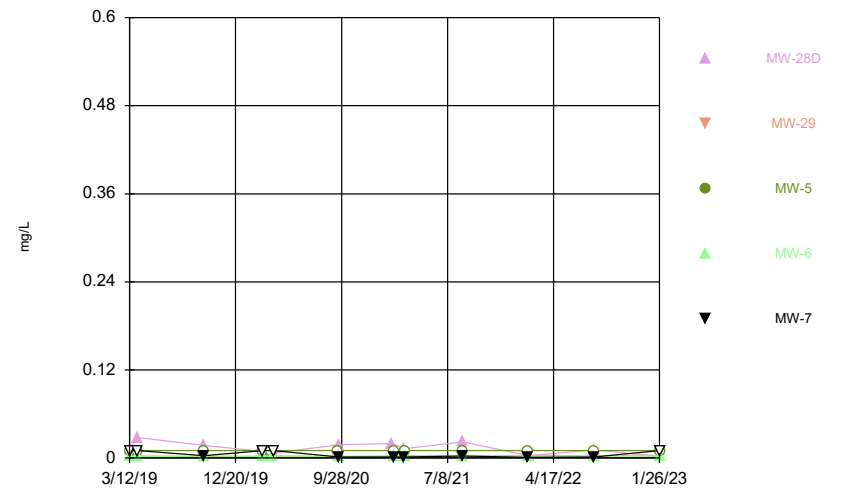
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



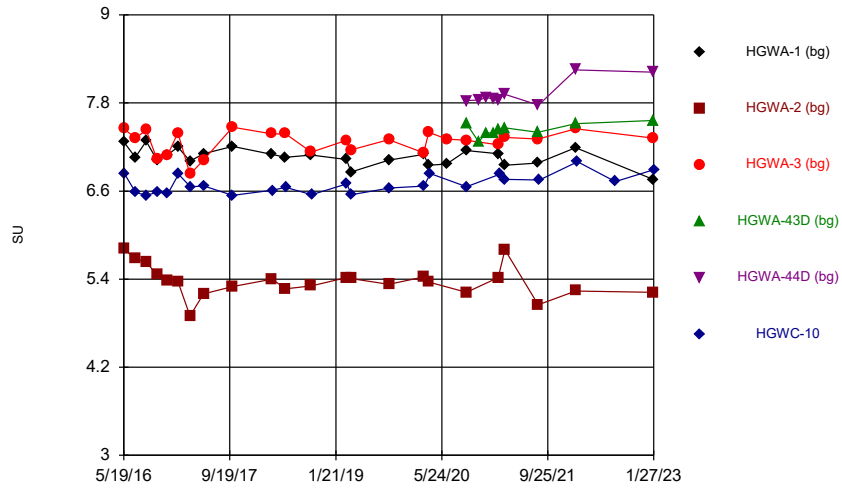
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Time Series



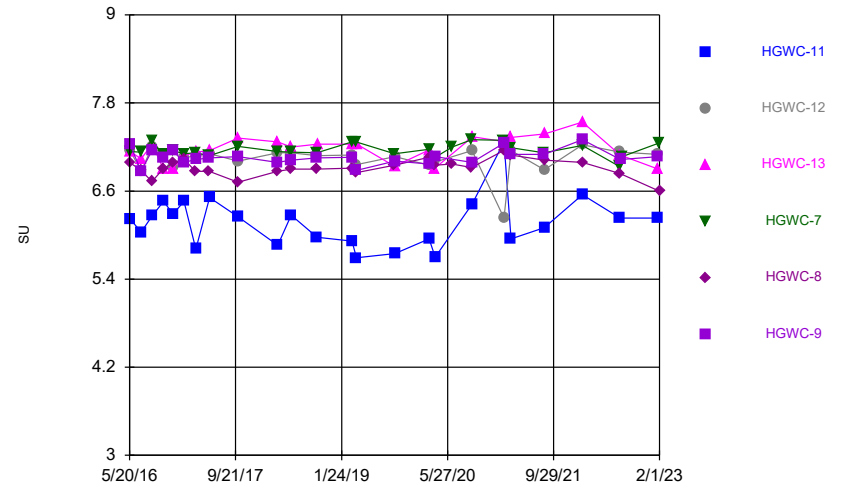
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Time Series



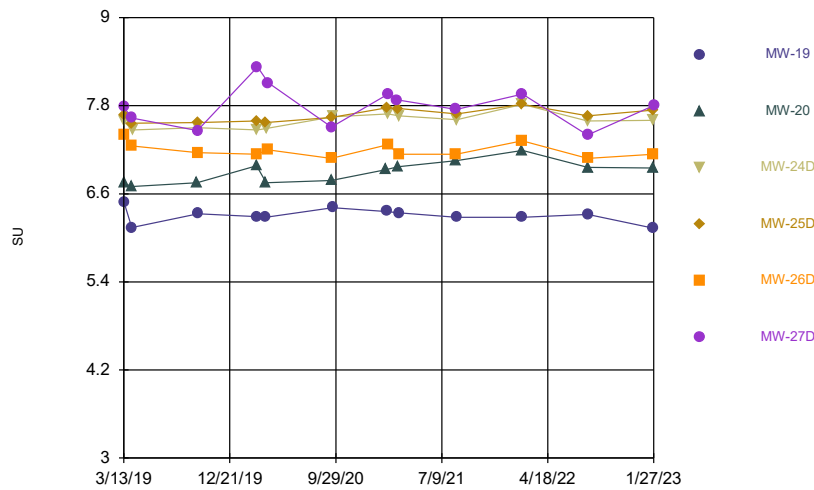
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Time Series



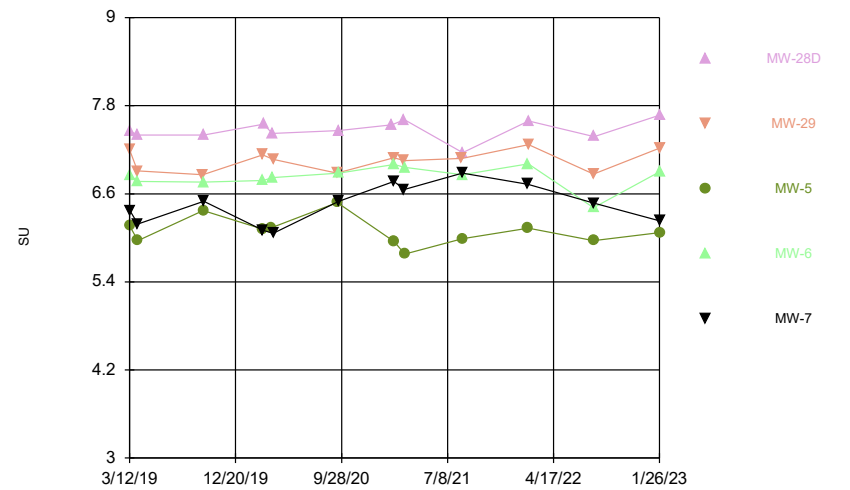
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Time Series



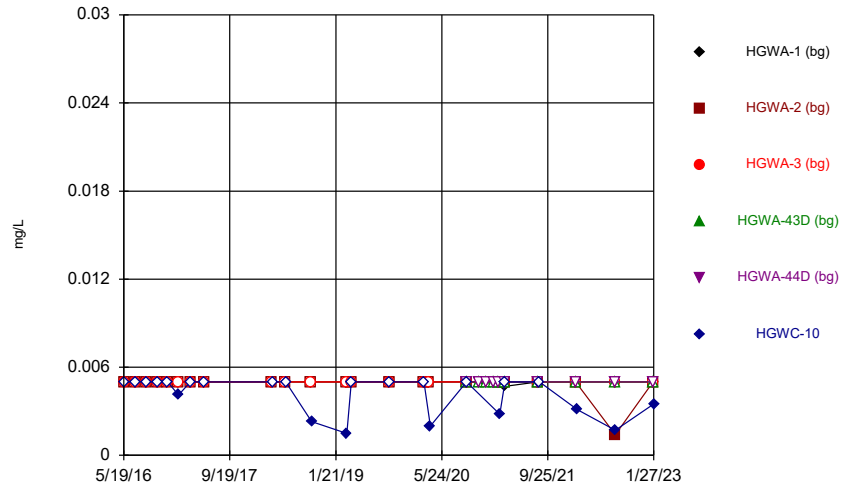
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Time Series



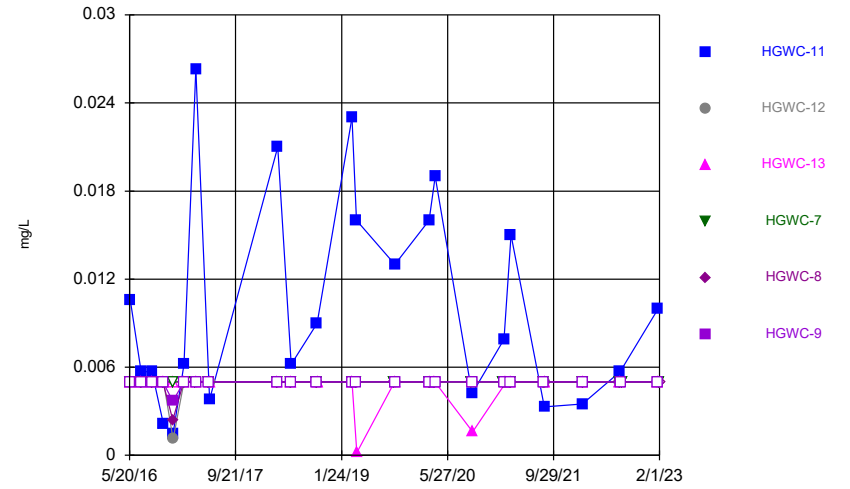
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Time Series



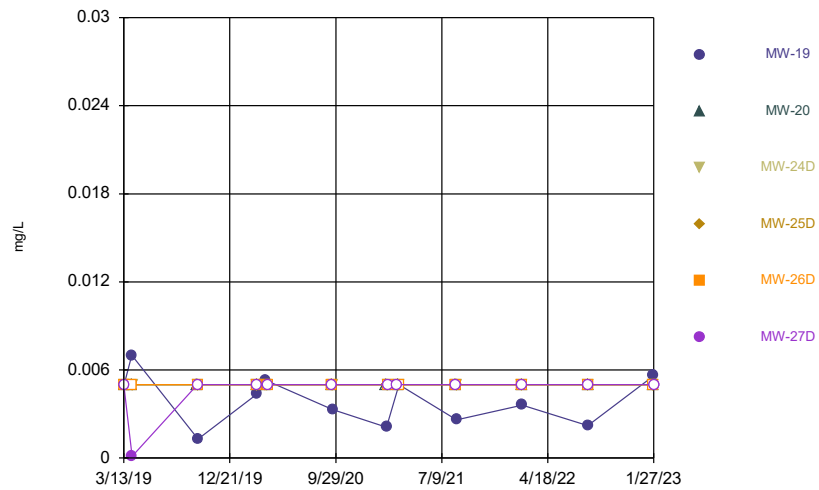
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Time Series



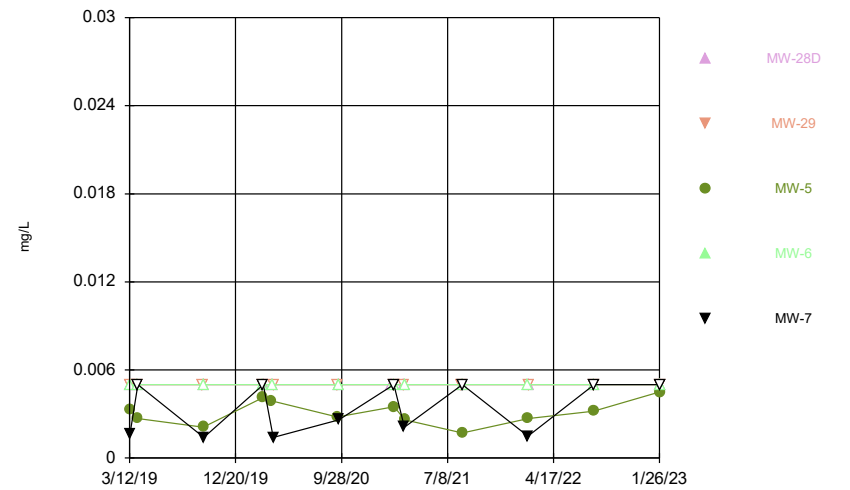
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Time Series



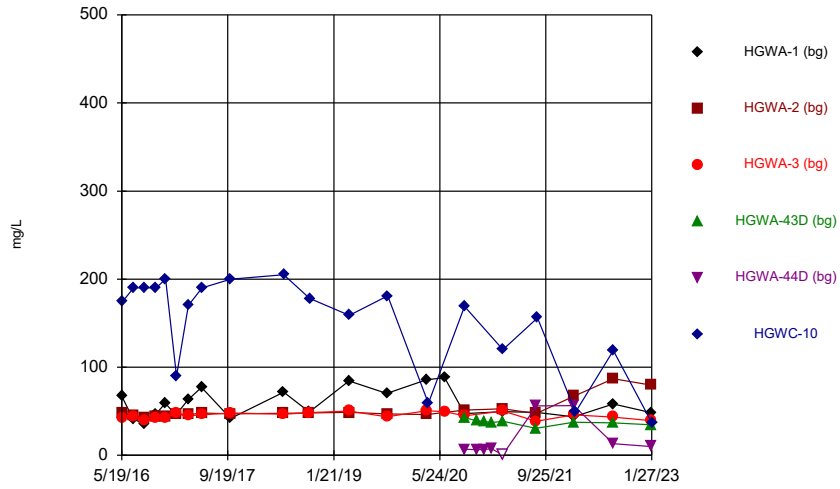
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Time Series



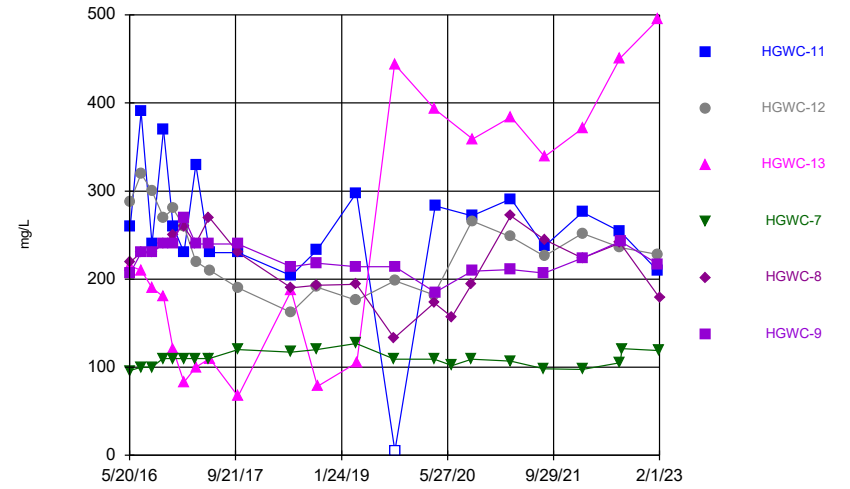
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Time Series



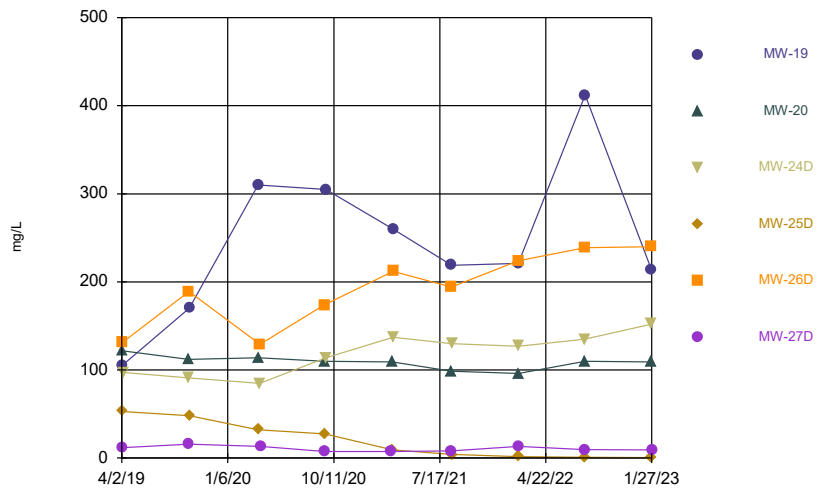
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Time Series



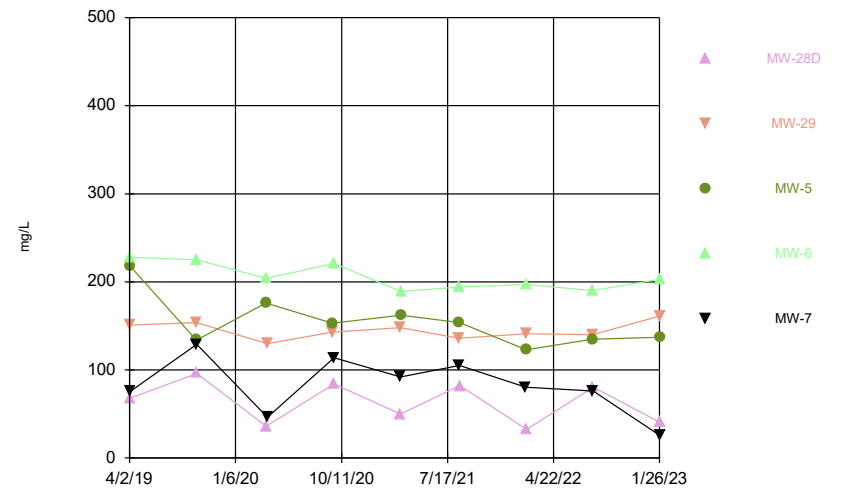
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Time Series



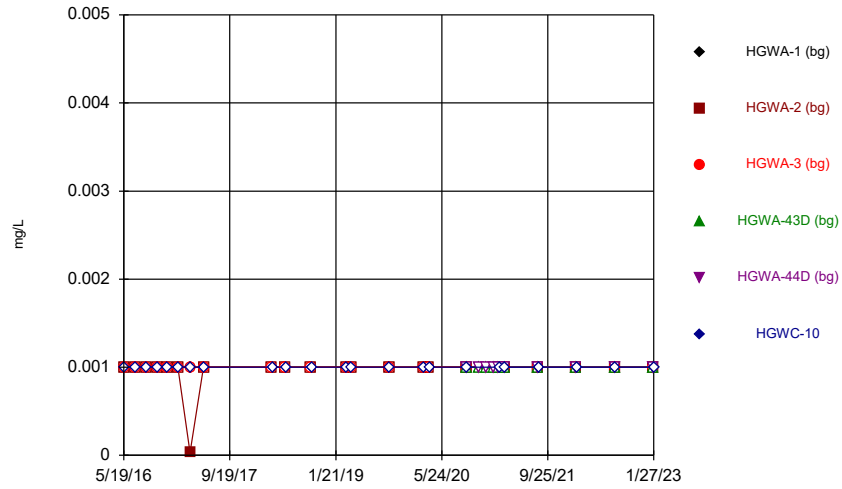
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Time Series



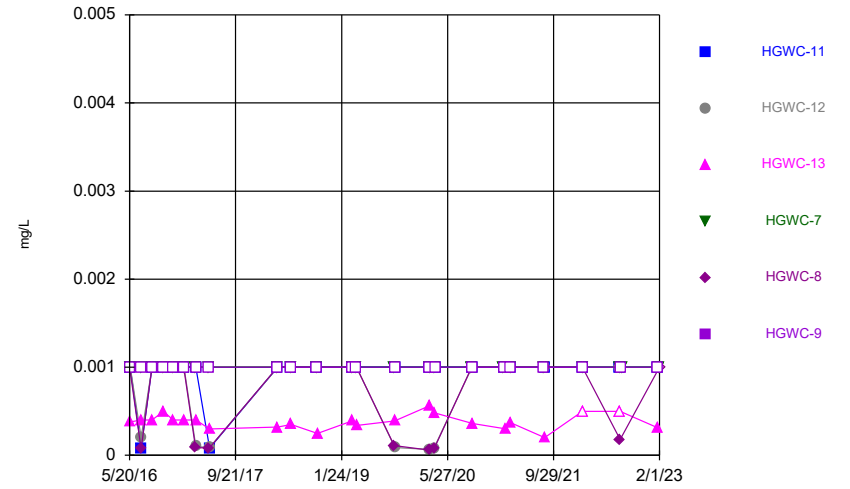
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Time Series



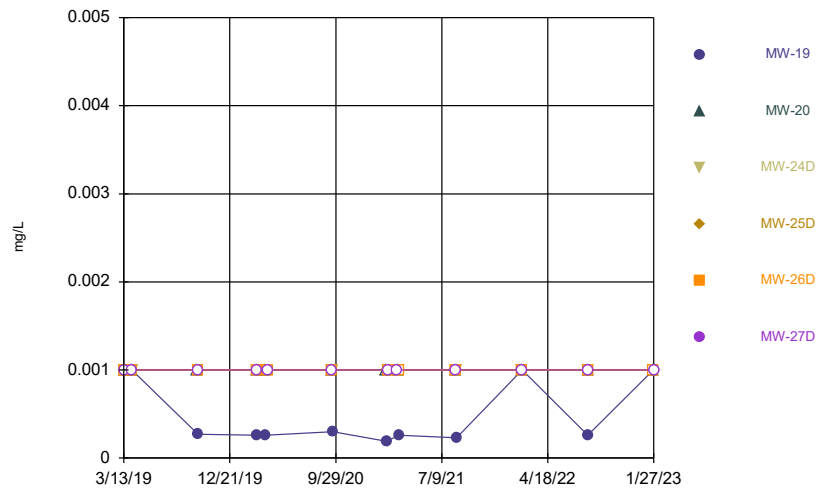
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Time Series



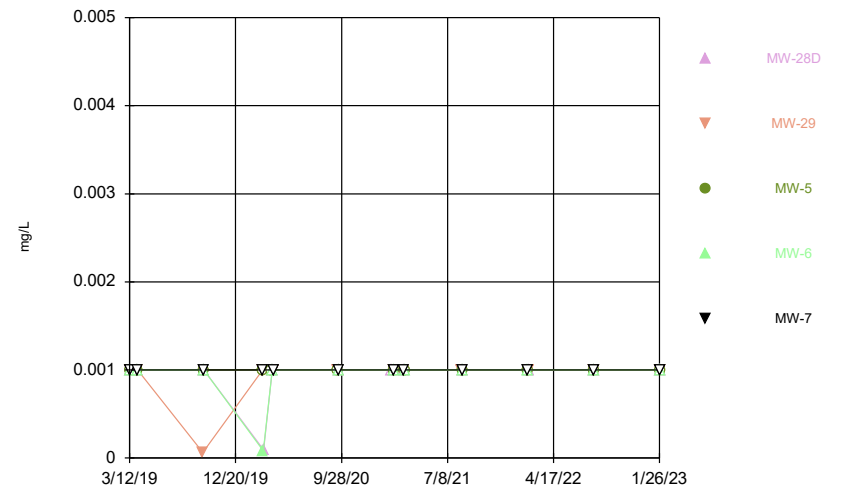
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Time Series



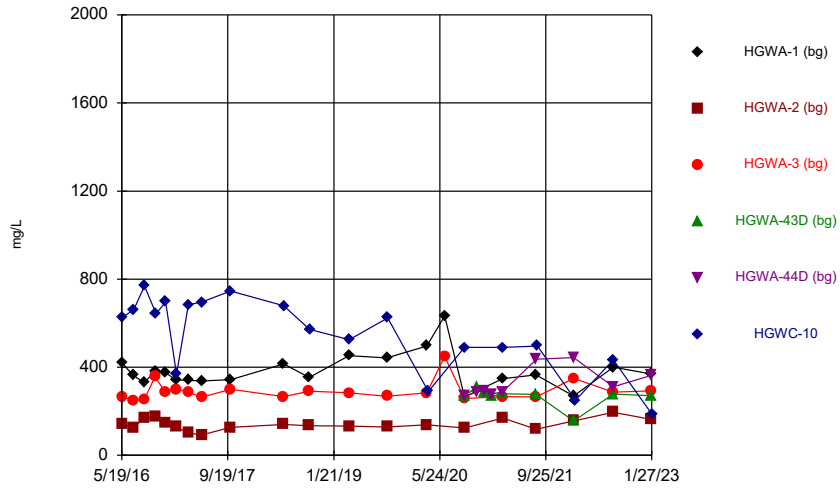
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Time Series



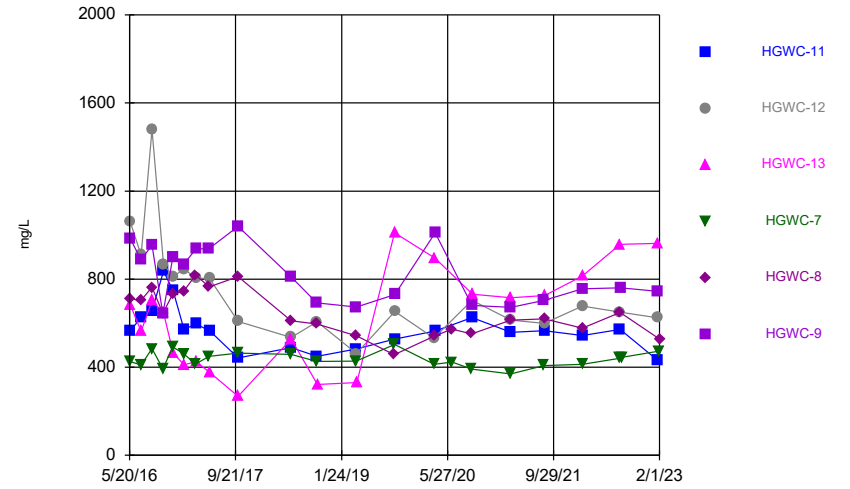
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Time Series



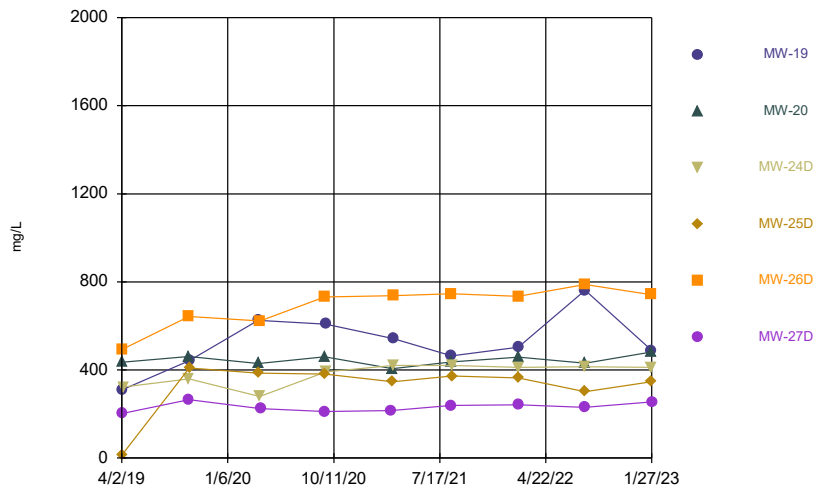
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



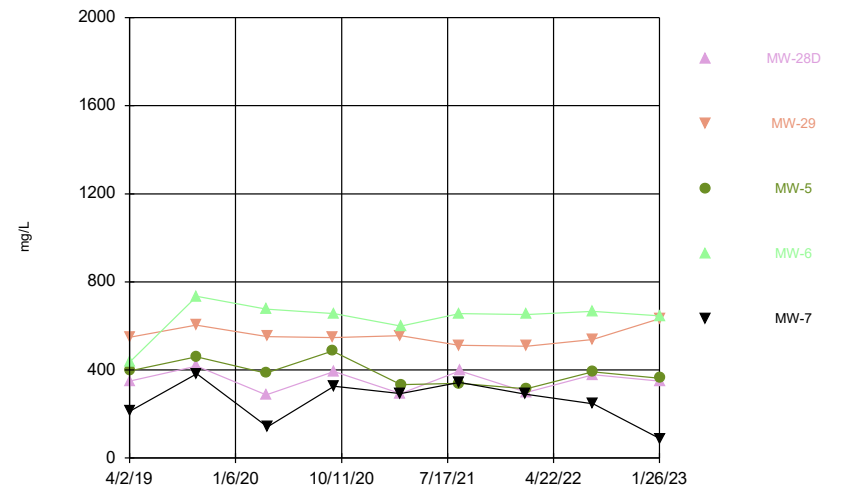
Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:19 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:19 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:19 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|--------------|--------------|---------------|---------------|-------------|
| 5/19/2016 | <0.003 | <0.003 | <0.003 | | | |
| 5/23/2016 | | | | | | <0.003 |
| 7/11/2016 | <0.003 | <0.003 | | | | |
| 7/12/2016 | | | 0.0003 (J) | | | <0.003 |
| 8/30/2016 | <0.003 | <0.003 | <0.003 | | | |
| 9/1/2016 | | | | | | <0.003 |
| 10/19/2016 | 0.0014 (J) | <0.003 | <0.003 | | | |
| 10/24/2016 | | | | | | <0.003 |
| 12/6/2016 | <0.003 | <0.003 | <0.003 | | | |
| 12/7/2016 | | | | | | <0.003 |
| 1/24/2017 | <0.003 | <0.003 | <0.003 | | | |
| 1/26/2017 | | | | | | <0.003 |
| 3/21/2017 | <0.003 | <0.003 | <0.003 | | | |
| 3/22/2017 | | | | | | <0.003 |
| 5/22/2017 | <0.003 | <0.003 | <0.003 | | | |
| 5/24/2017 | | | | | | <0.003 |
| 4/2/2018 | <0.003 | <0.003 | | | | |
| 4/3/2018 | | | <0.003 | | | |
| 4/4/2018 | | | | | | <0.003 |
| 3/12/2019 | <0.003 | <0.003 | <0.003 | | | |
| 3/13/2019 | | | | | | <0.003 |
| 4/1/2019 | | | <0.003 | | | |
| 4/2/2019 | <0.003 | <0.003 | | | | |
| 4/3/2019 | | | | | | <0.003 |
| 9/23/2019 | <0.003 | <0.003 | <0.003 | | | |
| 9/27/2019 | | | | | | <0.003 |
| 3/2/2020 | <0.003 | <0.003 | <0.003 | | | |
| 3/3/2020 | | | | | | <0.003 |
| 3/25/2020 | <0.003 | <0.003 | <0.003 | | | |
| 4/1/2020 | | | | | | <0.003 |
| 9/15/2020 | <0.003 | <0.003 | <0.003 | | | |
| 9/16/2020 | | | | 0.00051 (J) | 0.00049 (J) | <0.003 |
| 11/10/2020 | | | | 0.00043 (J) | <0.003 | |
| 12/15/2020 | | | | 0.00031 (J) | 0.00047 (J) | |
| 1/19/2021 | | | | 0.00029 (J) | 0.00067 (JB) | |
| 2/8/2021 | <0.003 | | | | | |
| 2/9/2021 | | 0.00062 (JB) | 0.00031 (JB) | 0.00037 (JB) | 0.00042 (J) | |
| 2/15/2021 | | | | | | 0.00065 (J) |
| 3/10/2021 | <0.003 | | | | 0.00037 (J) | |
| 3/11/2021 | | <0.003 | <0.003 | 0.00057 (J) | | |
| 3/12/2021 | | | | | | <0.003 |
| 8/11/2021 | <0.003 | | | <0.003 | | |
| 8/12/2021 | | <0.003 | <0.003 | | | |
| 8/13/2021 | | | | | <0.003 | |
| 8/17/2021 | | | | | | <0.003 |
| 2/1/2022 | <0.003 | <0.003 | <0.003 | <0.003 | 0.0013 (J) | |
| 2/9/2022 | | | | | | <0.003 |
| 8/2/2022 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | |
| 8/3/2022 | | | | | | 0.0018 (J) |
| 1/23/2023 | | | <0.003 | | | |
| 1/24/2023 | <0.003 | <0.003 | | <0.003 | <0.003 | |
| 1/27/2023 | | | | | | <0.003 |

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-------------|---------|-------------|-------------|-------------|-------------|
| 5/20/2016 | | | | <0.003 | <0.003 | |
| 5/23/2016 | <0.003 | <0.003 | <0.003 | | | <0.003 |
| 7/12/2016 | <0.003 | <0.003 | 0.0003 (J) | <0.003 | <0.003 | <0.003 |
| 9/1/2016 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 |
| 10/20/2016 | | | | <0.003 | <0.003 | <0.003 |
| 10/24/2016 | <0.003 | <0.003 | <0.003 | | | |
| 12/6/2016 | | | | <0.003 | <0.003 | <0.003 |
| 12/7/2016 | <0.003 | <0.003 | <0.003 | | | |
| 1/25/2017 | | | | <0.003 | <0.003 | |
| 1/26/2017 | <0.003 | <0.003 | <0.003 | | | <0.003 |
| 3/21/2017 | | | | <0.003 | <0.003 | |
| 3/22/2017 | <0.003 | <0.003 | <0.003 | | | <0.003 |
| 5/23/2017 | | | | <0.003 | <0.003 | <0.003 |
| 5/24/2017 | <0.003 | <0.003 | <0.003 | | | |
| 4/3/2018 | | | | <0.003 | <0.003 | <0.003 |
| 4/4/2018 | <0.003 | <0.003 | <0.003 | | | |
| 3/12/2019 | | | | | <0.003 | |
| 3/13/2019 | <0.003 | | <0.003 | <0.003 | | <0.003 |
| 3/14/2019 | | <0.003 | | | | |
| 4/2/2019 | | | | <0.003 | | |
| 4/3/2019 | <0.003 | <0.003 | | | <0.003 | <0.003 |
| 4/5/2019 | | | 0.00021 (J) | | | |
| 9/24/2019 | | | | | <0.003 | |
| 9/25/2019 | | | | <0.003 | | |
| 9/26/2019 | | | <0.003 | | | |
| 9/27/2019 | <0.003 | <0.003 | | | | <0.003 |
| 3/3/2020 | <0.003 | <0.003 | | | <0.003 | |
| 3/4/2020 | | | 0.00061 (J) | <0.003 | | 0.00032 (J) |
| 3/26/2020 | | <0.003 | | | | |
| 3/27/2020 | | | | <0.003 | <0.003 | |
| 3/30/2020 | | | 0.00036 (J) | | | |
| 3/31/2020 | <0.003 | | | | | 0.00042 (J) |
| 9/16/2020 | | | | 0.00034 (J) | <0.003 | |
| 9/17/2020 | | | | | | <0.003 |
| 9/18/2020 | 0.00038 (J) | <0.003 | | | | |
| 9/21/2020 | | | 0.00029 (J) | | | |
| 2/10/2021 | | | | <0.003 | | |
| 2/12/2021 | <0.003 | <0.003 | | | | |
| 2/16/2021 | | | | | 0.00064 (J) | 0.00043 (J) |
| 2/22/2021 | | | 0.00047 (J) | | | |
| 3/15/2021 | | | | <0.003 | <0.003 | |
| 3/16/2021 | <0.003 | <0.003 | | | | <0.003 |
| 3/17/2021 | | | 0.00049 (J) | | | |
| 8/16/2021 | | | | 0.0017 (J) | | |
| 8/17/2021 | | | | | | <0.003 |
| 8/18/2021 | <0.003 | <0.003 | | | <0.003 | |
| 8/19/2021 | | | <0.003 | | | |
| 2/9/2022 | <0.003 | <0.003 | | | | <0.003 |
| 2/10/2022 | | | <0.003 | <0.003 | <0.003 | |
| 8/3/2022 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | |
| 8/4/2022 | | | | | | <0.003 |
| 8/11/2022 | | | | <0.003 | | |

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|---------|---------|--------|--------|-------------|
| 1/26/2023 | <0.003 | <0.003 | <0.003 | | | 0.00092 (J) |
| 1/27/2023 | | | | <0.003 | | |
| 2/1/2023 | | | | | <0.003 | |

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|--------|--------|------------|--------|------------|-------------|
| 3/13/2019 | | <0.003 | <0.003 | | <0.003 | <0.003 |
| 3/14/2019 | <0.003 | | | <0.003 | | |
| 4/2/2019 | | <0.003 | | | | |
| 4/3/2019 | <0.003 | | | <0.003 | <0.003 | |
| 4/4/2019 | | | | | | 0.00016 (J) |
| 4/8/2019 | | | <0.003 | | | |
| 9/25/2019 | | <0.003 | | | | |
| 9/26/2019 | | | <0.003 | | <0.003 | 0.0003 (J) |
| 9/27/2019 | <0.003 | | | <0.003 | | |
| 3/2/2020 | | <0.003 | | | | |
| 3/3/2020 | | | | <0.003 | | |
| 3/4/2020 | <0.003 | | 0.0017 (J) | | 0.002 (J) | 0.00037 (J) |
| 3/26/2020 | <0.003 | | | <0.003 | | |
| 3/27/2020 | | <0.003 | | | | |
| 3/30/2020 | | | <0.003 | | | |
| 3/31/2020 | | | | | 0.0013 (J) | |
| 4/2/2020 | | | | | | 0.0003 (J) |
| 9/17/2020 | | <0.003 | | | <0.003 | |
| 9/18/2020 | | | | <0.003 | | 0.00031 (J) |
| 9/21/2020 | <0.003 | | <0.003 | | | |
| 2/11/2021 | | <0.003 | | | | |
| 2/12/2021 | <0.003 | | | <0.003 | | |
| 2/16/2021 | | | <0.003 | | <0.003 | 0.00038 (J) |
| 3/12/2021 | | | | | | <0.003 |
| 3/15/2021 | | <0.003 | | | | |
| 3/16/2021 | | | | <0.003 | | |
| 3/17/2021 | <0.003 | | <0.003 | | <0.003 | |
| 8/17/2021 | | <0.003 | | | <0.003 | <0.003 |
| 8/18/2021 | <0.003 | | | | | |
| 8/19/2021 | | | <0.003 | <0.003 | | |
| 2/9/2022 | <0.003 | | | <0.003 | <0.003 | |
| 2/10/2022 | | <0.003 | <0.003 | | | <0.003 |
| 8/3/2022 | | | <0.003 | | | <0.003 |
| 8/4/2022 | <0.003 | <0.003 | | <0.003 | <0.003 | |
| 1/26/2023 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | |
| 1/27/2023 | | | | | | <0.003 |

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|------------|-------------|--------|------------|-------------|
| 3/12/2019 | <0.003 | <0.003 | | | |
| 3/13/2019 | | | <0.003 | <0.003 | 0.00086 (J) |
| 4/2/2019 | <0.003 | <0.003 | | | |
| 4/3/2019 | | | <0.003 | <0.003 | <0.003 |
| 9/24/2019 | | <0.003 | | | |
| 9/25/2019 | | | <0.003 | | |
| 9/26/2019 | <0.003 | | | <0.003 | <0.003 |
| 3/2/2020 | | <0.003 | <0.003 | | |
| 3/3/2020 | | | | <0.003 | 0.0013 (J) |
| 3/4/2020 | <0.003 | | | | |
| 3/26/2020 | | | <0.003 | | |
| 3/27/2020 | <0.003 | | | <0.003 | |
| 3/30/2020 | | <0.003 | | | <0.003 |
| 9/16/2020 | | <0.003 | | | |
| 9/17/2020 | | | <0.003 | | |
| 9/21/2020 | <0.003 | | | 0.0014 (J) | 0.00051 (J) |
| 2/10/2021 | 0.0019 (J) | | | | |
| 2/15/2021 | | 0.00094 (J) | | | 0.0021 (J) |
| 2/16/2021 | | | <0.003 | <0.003 | |
| 3/15/2021 | <0.003 | <0.003 | | | <0.003 |
| 3/16/2021 | | | <0.003 | <0.003 | |
| 8/16/2021 | | <0.003 | | | |
| 8/17/2021 | | | <0.003 | <0.003 | <0.003 |
| 8/18/2021 | <0.003 | | | | |
| 2/8/2022 | | | | | <0.003 |
| 2/9/2022 | | | <0.003 | <0.003 | |
| 2/10/2022 | <0.003 | <0.003 | | | |
| 8/3/2022 | | <0.003 | <0.003 | <0.003 | |
| 8/4/2022 | <0.003 | | | | <0.003 |
| 1/26/2023 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|---------|
| 5/19/2016 | <0.005 | 0.00127 (J) | <0.005 | | | |
| 5/23/2016 | | | | | | <0.005 |
| 7/11/2016 | <0.005 | 0.002 (J) | | | | |
| 7/12/2016 | | | 0.0008 (J) | | | <0.005 |
| 8/30/2016 | <0.005 | 0.0017 (J) | <0.005 | | | |
| 9/1/2016 | | | | | | <0.005 |
| 10/19/2016 | <0.005 | <0.005 | <0.005 | | | |
| 10/24/2016 | | | | | | <0.005 |
| 12/6/2016 | <0.005 | <0.005 | <0.005 | | | |
| 12/7/2016 | | | | | | <0.005 |
| 1/24/2017 | <0.005 | <0.005 | <0.005 | | | |
| 1/26/2017 | | | | | | <0.005 |
| 3/21/2017 | 0.0005 (J) | <0.005 | 0.0007 (J) | | | |
| 3/22/2017 | | | | | | <0.005 |
| 5/22/2017 | <0.005 | 0.0006 (J) | 0.0006 (J) | | | |
| 5/24/2017 | | | | | | <0.005 |
| 4/2/2018 | <0.005 | <0.005 | | | | |
| 4/3/2018 | | | <0.005 | | | |
| 4/4/2018 | | | | | | <0.005 |
| 6/4/2018 | <0.005 | 0.00088 (J) | 0.0008 (J) | | | |
| 6/5/2018 | | | | | | <0.005 |
| 10/1/2018 | <0.005 | <0.005 | 0.0011 (J) | | | |
| 10/2/2018 | | | | | | <0.005 |
| 3/12/2019 | <0.005 | 0.00069 (J) | 0.00063 (J) | | | |
| 3/13/2019 | | | | | | <0.005 |
| 4/1/2019 | | | <0.005 | | | |
| 4/2/2019 | <0.005 | <0.005 | | | | |
| 4/3/2019 | | | | | | <0.005 |
| 9/23/2019 | 0.00046 (J) | 0.00067 (J) | 0.0011 (J) | | | |
| 9/27/2019 | | | | | | <0.005 |
| 3/2/2020 | <0.005 | 0.00043 (J) | 0.0004 (J) | | | |
| 3/3/2020 | | | | | | <0.005 |
| 3/25/2020 | <0.005 | <0.005 | <0.005 | | | |
| 4/1/2020 | | | | | | <0.005 |
| 9/15/2020 | <0.005 | <0.005 | <0.005 | | | |
| 9/16/2020 | | | | <0.005 | <0.005 | <0.005 |
| 11/10/2020 | | | | 0.0021 (J) | <0.005 | |
| 12/15/2020 | | | | <0.005 | <0.005 | |
| 1/19/2021 | | | | 0.0011 (J) | <0.005 | |
| 2/8/2021 | <0.005 | | | | | |
| 2/9/2021 | | <0.005 | <0.005 | 0.0017 (JB) | 0.00083 (J) | |
| 2/15/2021 | | | | | | <0.005 |
| 3/10/2021 | <0.005 | | | | <0.005 | |
| 3/11/2021 | | <0.005 | <0.005 | 0.0013 (J) | | |
| 3/12/2021 | | | | | | <0.005 |
| 8/11/2021 | <0.005 | | | 0.0015 (J) | | |
| 8/12/2021 | | <0.005 | <0.005 | | | |
| 8/13/2021 | | | | | <0.005 | |
| 8/17/2021 | | | | | | <0.005 |
| 2/1/2022 | 0.0016 (J) | 0.0023 (J) | 0.0024 (J) | 0.0036 (J) | 0.0025 (J) | |
| 2/9/2022 | | | | | | <0.005 |
| 8/2/2022 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|---------|
| 8/3/2022 | | | | | | <0.005 |
| 1/23/2023 | | | <0.005 | | | |
| 1/24/2023 | <0.005 | <0.005 | | <0.005 | 0.0027 (J) | |
| 1/27/2023 | | | | | | <0.005 |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-------------|------------|---------|------------|--------|-------------|
| 5/20/2016 | | | | <0.005 | <0.005 | |
| 5/23/2016 | <0.005 | 0.0046 (J) | 0.329 | | | <0.005 |
| 7/12/2016 | 0.0015 (J) | 0.005 | 0.297 | <0.005 | <0.005 | <0.005 |
| 9/1/2016 | <0.005 | 0.0043 (J) | 0.314 | <0.005 | <0.005 | <0.005 |
| 10/20/2016 | | | | <0.005 | <0.005 | <0.005 |
| 10/24/2016 | <0.005 | 0.0049 (J) | 0.334 | | | |
| 12/6/2016 | | | | <0.005 | <0.005 | <0.005 |
| 12/7/2016 | <0.005 | 0.0046 (J) | 0.35 | | | |
| 1/25/2017 | | | | <0.005 | <0.005 | |
| 1/26/2017 | <0.005 | <0.005 | 0.424 | | | <0.005 |
| 3/21/2017 | | | | <0.005 | <0.005 | |
| 3/22/2017 | 0.0053 | 0.0019 (J) | 0.419 | | | 0.0008 (J) |
| 5/23/2017 | | | | <0.005 | <0.005 | <0.005 |
| 5/24/2017 | <0.005 | 0.0022 (J) | 0.393 | | | |
| 4/3/2018 | | | | <0.005 | <0.005 | <0.005 |
| 4/4/2018 | <0.005 | <0.005 | 0.49 | | | |
| 6/5/2018 | 0.0012 (J) | | 0.38 | <0.005 | | |
| 6/6/2018 | | 0.0048 (J) | | | <0.005 | <0.005 |
| 10/2/2018 | | | | 0.0019 (J) | <0.005 | <0.005 |
| 10/3/2018 | <0.005 | 0.0037 (J) | | | | |
| 10/5/2018 | | | 0.34 | | | |
| 3/12/2019 | | | | | <0.005 | |
| 3/13/2019 | 0.0024 (J) | | 0.42 | <0.005 | | 0.00075 (J) |
| 3/14/2019 | | 0.0026 (J) | | | | |
| 4/2/2019 | | | | <0.005 | | |
| 4/3/2019 | 0.00094 (J) | 0.0022 (J) | | | <0.005 | <0.005 |
| 4/5/2019 | | | 0.36 | | | |
| 9/24/2019 | | | | | <0.005 | |
| 9/25/2019 | | | | <0.005 | | |
| 9/26/2019 | | | 0.44 | | | |
| 9/27/2019 | 0.0018 (J) | 0.0061 | | | | 0.00037 (J) |
| 3/3/2020 | 0.0022 (J) | 0.0023 (J) | | | <0.005 | |
| 3/4/2020 | | | 0.52 | <0.005 | | <0.005 |
| 3/26/2020 | | 0.0028 (J) | | | | |
| 3/27/2020 | | | | <0.005 | <0.005 | |
| 3/30/2020 | | | 0.47 | | | |
| 3/31/2020 | 0.0022 (J) | | | | | <0.005 |
| 9/16/2020 | | | | <0.005 | <0.005 | |
| 9/17/2020 | | | | | | <0.005 |
| 9/18/2020 | 0.00081 (J) | 0.0031 (J) | | | | |
| 9/21/2020 | | | 0.39 | | | |
| 2/10/2021 | | | | <0.005 | | |
| 2/12/2021 | 0.002 (J) | 0.0045 (J) | | | | |
| 2/16/2021 | | | | | <0.005 | <0.005 |
| 2/22/2021 | | | 0.45 | | | |
| 3/15/2021 | | | | <0.005 | <0.005 | |
| 3/16/2021 | 0.0017 (J) | 0.0038 (J) | | | | <0.005 |
| 3/17/2021 | | | 0.39 | | | |
| 8/16/2021 | | | | <0.005 | | |
| 8/17/2021 | | | | | | <0.005 |
| 8/18/2021 | <0.005 | 0.0028 (J) | | | <0.005 | |
| 8/19/2021 | | | 0.31 | | | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|------------|------------|---------|--------|-----------|------------|
| 2/9/2022 | 0.0047 (J) | 0.0053 | | | | 0.0021 (J) |
| 2/10/2022 | | | 0.38 | <0.005 | 0.002 (J) | |
| 8/3/2022 | <0.005 | 0.0023 (J) | 0.4 | <0.005 | <0.005 | |
| 8/4/2022 | | | | | | <0.005 |
| 8/11/2022 | | | | <0.005 | | |
| 1/26/2023 | <0.005 | 0.0025 (J) | 0.53 | | | <0.005 |
| 1/27/2023 | | | | <0.005 | | |
| 2/1/2023 | | | | | <0.005 | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------------|-------------|--------|-------------|------------|-------------|
| 3/13/2019 | | 0.0023 (J) | <0.005 | | <0.005 | <0.005 |
| 3/14/2019 | <0.005 | | | 0.0019 (J) | | |
| 4/2/2019 | | <0.005 | | | | |
| 4/3/2019 | <0.005 | | | <0.005 | <0.005 | |
| 4/4/2019 | | | | | | 0.0002 (J) |
| 4/8/2019 | | | <0.005 | | | |
| 9/25/2019 | | <0.005 | | | | |
| 9/26/2019 | | | <0.005 | | <0.005 | <0.005 |
| 9/27/2019 | <0.005 | | | 0.0011 (J) | | |
| 3/2/2020 | | 0.00038 (J) | | | | |
| 3/3/2020 | | | | 0.001 (J) | | |
| 3/4/2020 | 0.00045 (J) | | <0.005 | | 0.0006 (J) | 0.00069 (J) |
| 3/26/2020 | <0.005 | | | 0.00075 (J) | | |
| 3/27/2020 | | <0.005 | | | | |
| 3/30/2020 | | | <0.005 | | | |
| 3/31/2020 | | | | | <0.005 | |
| 4/2/2020 | | | | | | <0.005 |
| 9/17/2020 | | <0.005 | | | <0.005 | |
| 9/18/2020 | | | | <0.005 | | <0.005 |
| 9/21/2020 | <0.005 | | <0.005 | | | |
| 2/11/2021 | | 0.00094 (J) | | | | |
| 2/12/2021 | <0.005 | | | <0.005 | | |
| 2/16/2021 | | | <0.005 | | 0.0008 (J) | 0.001 (J) |
| 3/12/2021 | | | | | | <0.005 |
| 3/15/2021 | | <0.005 | | | | |
| 3/16/2021 | | | | <0.005 | | |
| 3/17/2021 | <0.005 | | <0.005 | | <0.005 | |
| 8/17/2021 | | <0.005 | | | <0.005 | <0.005 |
| 8/18/2021 | <0.005 | | | | | |
| 8/19/2021 | | | <0.005 | <0.005 | | |
| 2/9/2022 | <0.005 | | | <0.005 | 0.0017 (J) | |
| 2/10/2022 | | <0.005 | <0.005 | | | <0.005 |
| 8/3/2022 | | | <0.005 | | | <0.005 |
| 8/4/2022 | <0.005 | <0.005 | | <0.005 | <0.005 | |
| 1/26/2023 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 1/27/2023 | | | | | | <0.005 |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|------------|-------------|------------|------------|--------|
| 3/12/2019 | <0.005 | <0.005 | | | |
| 3/13/2019 | | | <0.005 | <0.005 | <0.005 |
| 4/2/2019 | <0.005 | <0.005 | | | |
| 4/3/2019 | | | <0.005 | <0.005 | <0.005 |
| 9/24/2019 | | <0.005 | | | |
| 9/25/2019 | | | <0.005 | | |
| 9/26/2019 | <0.005 | | | <0.005 | <0.005 |
| 3/2/2020 | | <0.005 | <0.005 | | |
| 3/3/2020 | | | | <0.005 | <0.005 |
| 3/4/2020 | <0.005 | | | | |
| 3/26/2020 | | | <0.005 | | |
| 3/27/2020 | <0.005 | | | <0.005 | |
| 3/30/2020 | | 0.00037 (J) | | | <0.005 |
| 9/16/2020 | | <0.005 | | | |
| 9/17/2020 | | | <0.005 | | |
| 9/21/2020 | <0.005 | | | <0.005 | <0.005 |
| 2/10/2021 | 0.0011 (J) | | | | |
| 2/15/2021 | | <0.005 | | | <0.005 |
| 2/16/2021 | | | <0.005 | <0.005 | |
| 3/15/2021 | <0.005 | <0.005 | | | <0.005 |
| 3/16/2021 | | | <0.005 | <0.005 | |
| 8/16/2021 | | <0.005 | | | |
| 8/17/2021 | | | <0.005 | <0.005 | <0.005 |
| 8/18/2021 | <0.005 | | | | |
| 2/8/2022 | | | | | <0.005 |
| 2/9/2022 | | | 0.0013 (J) | 0.0034 (J) | |
| 2/10/2022 | <0.005 | <0.005 | | | |
| 8/3/2022 | | <0.005 | <0.005 | <0.005 | |
| 8/4/2022 | <0.005 | | | | <0.005 |
| 1/26/2023 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |

Time Series

Constituent: Barium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|---------|
| 5/19/2016 | 0.0346 | 0.114 | 0.111 | | | |
| 5/23/2016 | | | | | | 0.0877 |
| 7/11/2016 | 0.0311 | 0.112 | | | | |
| 7/12/2016 | | | 0.115 | | | 0.0926 |
| 8/30/2016 | 0.0293 | 0.131 | 0.113 | | | |
| 9/1/2016 | | | | | | 0.0994 |
| 10/19/2016 | 0.0293 | 0.111 | 0.123 | | | |
| 10/24/2016 | | | | | | 0.101 |
| 12/6/2016 | 0.0304 | 0.108 | 0.127 | | | |
| 12/7/2016 | | | | | | 0.107 |
| 1/24/2017 | 0.028 | 0.102 | 0.126 | | | |
| 1/26/2017 | | | | | | 0.0538 |
| 3/21/2017 | 0.0275 | 0.095 | 0.12 | | | |
| 3/22/2017 | | | | | | 0.0962 |
| 5/22/2017 | 0.0281 | 0.103 | 0.117 | | | |
| 5/24/2017 | | | | | | 0.0996 |
| 4/2/2018 | 0.026 | 0.099 | | | | |
| 4/3/2018 | | | 0.11 | | | |
| 4/4/2018 | | | | | | 0.084 |
| 6/4/2018 | 0.035 | 0.11 | 0.12 | | | |
| 6/5/2018 | | | | | | 0.086 |
| 10/1/2018 | 0.029 | 0.11 | 0.14 | | | |
| 10/2/2018 | | | | | | 0.076 |
| 3/12/2019 | 0.042 | 0.12 | 0.13 | | | |
| 3/13/2019 | | | | | | 0.044 |
| 4/1/2019 | | | 0.13 | | | |
| 4/2/2019 | 0.04 | 0.13 | | | | |
| 4/3/2019 | | | | | | 0.076 |
| 9/23/2019 | 0.042 | 0.13 | 0.13 | | | |
| 9/27/2019 | | | | | | 0.078 |
| 3/2/2020 | 0.034 | 0.11 | 0.14 | | | |
| 3/3/2020 | | | | | | 0.048 |
| 3/25/2020 | 0.043 | 0.12 | 0.13 | | | |
| 4/1/2020 | | | | | | 0.058 |
| 9/15/2020 | 0.035 | 0.12 | 0.12 | | | |
| 9/16/2020 | | | | 0.26 | 0.24 | 0.068 |
| 11/10/2020 | | | | 0.25 | 0.38 | |
| 12/15/2020 | | | | 0.29 | 0.39 | |
| 1/19/2021 | | | | 0.32 | 0.41 | |
| 2/8/2021 | 0.032 | | | | | |
| 2/9/2021 | | 0.12 | 0.13 | 0.34 | 0.46 | |
| 2/15/2021 | | | | | | 0.06 |
| 3/10/2021 | 0.03 | | | | 0.26 | |
| 3/11/2021 | | 0.07 | 0.13 | 0.32 | | |
| 3/12/2021 | | | | | | 0.058 |
| 8/11/2021 | 0.03 | | | 0.28 | | |
| 8/12/2021 | | 0.12 | 0.11 | | | |
| 8/13/2021 | | | | | 0.22 | |
| 8/17/2021 | | | | | | 0.055 |
| 2/1/2022 | 0.031 | 0.13 | 0.12 | 0.29 | 0.23 | |
| 2/9/2022 | | | | | | 0.042 |
| 8/2/2022 | 0.039 | 0.11 | 0.16 | 0.35 | 0.37 | |

Time Series

Constituent: Barium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|---------|
| 8/3/2022 | | | | | | 0.069 |
| 1/23/2023 | | | 0.13 | | | |
| 1/24/2023 | 0.033 | 0.088 | | 0.28 | 0.18 | |
| 1/27/2023 | | | | | | 0.041 |

Time Series

Constituent: Barium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|---------|---------|---------|--------|--------|--------|
| 5/20/2016 | | | | 0.0687 | 0.0808 | |
| 5/23/2016 | 0.0466 | 0.133 | 0.0779 | | | 0.117 |
| 7/12/2016 | 0.0616 | 0.135 | 0.0697 | 0.0731 | 0.083 | 0.13 |
| 9/1/2016 | 0.0497 | 0.123 | 0.07 | 0.0747 | 0.0829 | 0.13 |
| 10/20/2016 | | | | 0.072 | 0.0811 | 0.0806 |
| 10/24/2016 | 0.0794 | 0.135 | 0.0882 | | | |
| 12/6/2016 | | | | 0.0752 | 0.0845 | 0.128 |
| 12/7/2016 | 0.1 | 0.13 | 0.0798 | | | |
| 1/25/2017 | | | | 0.0747 | 0.078 | |
| 1/26/2017 | 0.0696 | 0.127 | 0.0738 | | | 0.142 |
| 3/21/2017 | | | | 0.0722 | 0.0791 | |
| 3/22/2017 | 0.0346 | 0.112 | 0.0755 | | | 0.122 |
| 5/23/2017 | | | | 0.0794 | 0.0846 | 0.127 |
| 5/24/2017 | 0.0437 | 0.106 | 0.0627 | | | |
| 4/3/2018 | | | | 0.075 | 0.065 | 0.1 |
| 4/4/2018 | 0.029 | 0.083 | 0.099 | | | |
| 6/5/2018 | 0.039 | | 0.13 | 0.071 | | |
| 6/6/2018 | | 0.09 | | | 0.063 | 0.11 |
| 10/2/2018 | | | | 0.078 | 0.061 | 0.11 |
| 10/3/2018 | 0.033 | 0.087 | | | | |
| 10/5/2018 | | | 0.076 | | | |
| 3/12/2019 | | | | | 0.062 | |
| 3/13/2019 | 0.024 | | 0.1 | 0.083 | | 0.1 |
| 3/14/2019 | | 0.081 | | | | |
| 4/2/2019 | | | | 0.072 | | |
| 4/3/2019 | 0.023 | 0.077 | | | 0.066 | 0.12 |
| 4/5/2019 | | | 0.079 | | | |
| 9/24/2019 | | | | | 0.053 | |
| 9/25/2019 | | | | 0.061 | | |
| 9/26/2019 | | | 0.11 | | | |
| 9/27/2019 | 0.033 | 0.096 | | | | 0.11 |
| 3/3/2020 | 0.022 | 0.092 | | | 0.052 | |
| 3/4/2020 | | | 0.1 | 0.068 | | 0.11 |
| 3/26/2020 | | 0.089 | | | | |
| 3/27/2020 | | | | 0.059 | 0.059 | |
| 3/30/2020 | | | 0.08 | | | |
| 3/31/2020 | 0.026 | | | | | 0.11 |
| 9/16/2020 | | | | 0.068 | 0.06 | |
| 9/17/2020 | | | | | | 0.11 |
| 9/18/2020 | 0.043 | 0.086 | | | | |
| 9/21/2020 | | | 0.052 | | | |
| 2/10/2021 | | | | 0.069 | | |
| 2/12/2021 | 0.039 | 0.09 | | | | |
| 2/16/2021 | | | | | 0.069 | 0.11 |
| 2/22/2021 | | | 0.061 | | | |
| 3/15/2021 | | | | 0.074 | 0.063 | |
| 3/16/2021 | 0.035 | 0.084 | | | | 0.11 |
| 3/17/2021 | | | 0.056 | | | |
| 8/16/2021 | | | | 0.068 | | |
| 8/17/2021 | | | | | | 0.095 |
| 8/18/2021 | 0.04 | 0.083 | | | 0.062 | |
| 8/19/2021 | | | 0.049 | | | |

Time Series

Constituent: Barium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|---------|---------|--------|--------|--------|
| 2/9/2022 | 0.042 | 0.075 | | | | 0.096 |
| 2/10/2022 | | | 0.053 | 0.063 | 0.056 | |
| 8/3/2022 | 0.041 | 0.086 | 0.07 | 0.066 | 0.06 | |
| 8/4/2022 | | | | | | 0.091 |
| 8/11/2022 | | | | 0.071 | | |
| 1/26/2023 | 0.031 | 0.076 | 0.079 | | | 0.069 |
| 1/27/2023 | | | | 0.065 | | |
| 2/1/2023 | | | | | 0.058 | |

Time Series

Constituent: Barium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------|-------|--------|--------|--------|--------|
| 3/13/2019 | | 0.087 | 0.053 | | 0.099 | 1.5 |
| 3/14/2019 | 0.06 | | | 0.44 | | |
| 4/2/2019 | | 0.08 | | | | |
| 4/3/2019 | 0.05 | | | 0.38 | 0.12 | |
| 4/4/2019 | | | | | | 1.2 |
| 4/8/2019 | | | 0.043 | | | |
| 9/25/2019 | | 0.085 | | | | |
| 9/26/2019 | | | 0.12 | | 0.12 | 0.95 |
| 9/27/2019 | 0.068 | | | 0.39 | | |
| 3/2/2020 | | 0.099 | | | | |
| 3/3/2020 | | | | 0.42 | | |
| 3/4/2020 | 0.069 | | 0.081 | | 0.17 | 0.95 |
| 3/26/2020 | 0.067 | | | 0.45 | | |
| 3/27/2020 | | 0.093 | | | | |
| 3/30/2020 | | | 0.056 | | | |
| 3/31/2020 | | | | | 0.11 | |
| 4/2/2020 | | | | | | 1 |
| 9/17/2020 | | 0.096 | | | 0.099 | |
| 9/18/2020 | | | | 0.44 | | 1 |
| 9/21/2020 | 0.056 | | 0.053 | | | |
| 2/11/2021 | | 0.093 | | | | |
| 2/12/2021 | 0.051 | | | 0.46 | | |
| 2/16/2021 | | | 0.062 | | 0.093 | 1 |
| 3/12/2021 | | | | | | 1.1 |
| 3/15/2021 | | 0.096 | | | | |
| 3/16/2021 | | | | 0.51 | | |
| 3/17/2021 | 0.049 | | 0.055 | | 0.094 | |
| 8/17/2021 | | 0.089 | | | 0.072 | 1.1 |
| 8/18/2021 | 0.045 | | | | | |
| 8/19/2021 | | | 0.048 | 0.58 | | |
| 2/9/2022 | 0.042 | | | 0.6 | 0.066 | |
| 2/10/2022 | | 0.082 | 0.048 | | | 0.99 |
| 8/3/2022 | | | 0.053 | | | 0.94 |
| 8/4/2022 | 0.05 | 0.093 | | 0.75 | 0.062 | |
| 1/26/2023 | 0.039 | 0.097 | 0.054 | 0.65 | 0.065 | |
| 1/27/2023 | | | | | | 0.94 |

Time Series

Constituent: Barium (mg/L) Analysis Run 4/14/2023 12:20 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|--------|-------|-------|-------|-------|
| 3/12/2019 | 0.82 | 0.089 | | | |
| 3/13/2019 | | | 0.056 | 0.1 | 0.063 |
| 4/2/2019 | 0.37 | 0.078 | | | |
| 4/3/2019 | | | 0.049 | 0.09 | 0.058 |
| 9/24/2019 | | 0.081 | | | |
| 9/25/2019 | | | 0.046 | | |
| 9/26/2019 | 0.15 | | | 0.089 | 0.066 |
| 3/2/2020 | | 0.088 | 0.049 | | |
| 3/3/2020 | | | | 0.09 | 0.043 |
| 3/4/2020 | 0.77 | | | | |
| 3/26/2020 | | | 0.046 | | |
| 3/27/2020 | 0.64 | | | 0.086 | |
| 3/30/2020 | | 0.08 | | | 0.05 |
| 9/16/2020 | | 0.076 | | | |
| 9/17/2020 | | | 0.043 | | |
| 9/21/2020 | 0.18 | | | 0.083 | 0.065 |
| 2/10/2021 | 0.26 | | | | |
| 2/15/2021 | | 0.081 | | | 0.048 |
| 2/16/2021 | | | 0.05 | 0.085 | |
| 3/15/2021 | 0.45 | 0.078 | | | 0.053 |
| 3/16/2021 | | | 0.046 | 0.081 | |
| 8/16/2021 | | 0.074 | | | |
| 8/17/2021 | | | 0.045 | 0.081 | 0.057 |
| 8/18/2021 | 0.53 | | | | |
| 2/8/2022 | | | | | 0.053 |
| 2/9/2022 | | | 0.042 | 0.074 | |
| 2/10/2022 | 0.76 | 0.072 | | | |
| 8/3/2022 | | 0.081 | 0.058 | 0.084 | |
| 8/4/2022 | 0.7 | | | | 0.064 |
| 1/26/2023 | 0.8 | 0.076 | 0.05 | 0.079 | 0.044 |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|---------|
| 5/19/2016 | <0.0005 | <0.003 | <0.0005 | | | |
| 5/23/2016 | | | | | | <0.0005 |
| 7/11/2016 | <0.0005 | 0.0001 (J) | | | | |
| 7/12/2016 | | | <0.0005 | | | <0.0005 |
| 8/30/2016 | <0.0005 | <0.003 | <0.0005 | | | |
| 9/1/2016 | | | | | | <0.0005 |
| 10/19/2016 | <0.0005 | 0.0001 (J) | <0.0005 | | | |
| 10/24/2016 | | | | | | <0.0005 |
| 12/6/2016 | <0.0005 | 0.0002 (J) | <0.0005 | | | |
| 12/7/2016 | | | | | | <0.0005 |
| 1/24/2017 | <0.0005 | 0.0001 (J) | <0.0005 | | | |
| 1/26/2017 | | | | | | <0.0005 |
| 3/21/2017 | <0.0005 | 0.0001 (J) | <0.0005 | | | |
| 3/22/2017 | | | | | | <0.0005 |
| 5/22/2017 | <0.0005 | 0.0001 (J) | <0.0005 | | | |
| 5/24/2017 | | | | | | <0.0005 |
| 4/2/2018 | <0.0005 | <0.003 | | | | |
| 4/3/2018 | | | <0.0005 | | | |
| 4/4/2018 | | | | | | <0.0005 |
| 3/12/2019 | <0.0005 | 0.00017 (J) | <0.0005 | | | |
| 3/13/2019 | | | | | | <0.0005 |
| 4/1/2019 | | | <0.0005 | | | |
| 4/2/2019 | <0.0005 | 0.00015 (J) | | | | |
| 4/3/2019 | | | | | | <0.0005 |
| 9/23/2019 | <0.0005 | 0.00011 (J) | <0.0005 | | | |
| 9/27/2019 | | | | | | <0.0005 |
| 3/2/2020 | <0.0005 | 0.00014 (J) | <0.0005 | | | |
| 3/3/2020 | | | | | | <0.0005 |
| 3/25/2020 | <0.0005 | 0.00016 (J) | <0.0005 | | | |
| 4/1/2020 | | | | | | <0.0005 |
| 9/15/2020 | <0.0005 | 0.00013 (J) | <0.0005 | | | |
| 9/16/2020 | | | | <0.0005 | <0.0005 | <0.0005 |
| 11/10/2020 | | | | <0.0005 | <0.0005 | |
| 12/15/2020 | | | | <0.0005 | <0.0005 | |
| 1/19/2021 | | | | <0.0005 | <0.0005 | |
| 2/8/2021 | <0.0005 | | | | | |
| 2/9/2021 | | 0.00014 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 2/15/2021 | | | | | | <0.0005 |
| 3/10/2021 | <0.0005 | | | | <0.0005 | |
| 3/11/2021 | | 8.6E-05 (J) | <0.0005 | <0.0005 | | |
| 3/12/2021 | | | | | | <0.0005 |
| 8/11/2021 | <0.0005 | | | <0.0005 | | |
| 8/12/2021 | | 0.00014 (J) | <0.0005 | | | |
| 8/13/2021 | | | | | <0.0005 | |
| 8/17/2021 | | | | | | <0.0005 |
| 2/1/2022 | <0.0005 | 0.0002 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 2/9/2022 | | | | | | <0.0005 |
| 8/2/2022 | <0.0005 | 0.00019 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 8/3/2022 | | | | | | <0.0005 |
| 1/23/2023 | | | <0.0005 | | | |
| 1/24/2023 | <0.0005 | 0.00016 (J) | | <0.0005 | <0.0005 | |
| 1/27/2023 | | | | | | <0.0005 |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-------------|---------|-------------|-------------|-------------|---------|
| 5/20/2016 | | | | <0.0005 | <0.003 | |
| 5/23/2016 | <0.0005 | <0.0005 | <0.0005 | | | <0.0005 |
| 7/12/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.003 | <0.0005 |
| 9/1/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.003 | <0.0005 |
| 10/20/2016 | | | | <0.0005 | <0.003 | <0.0005 |
| 10/24/2016 | <0.0005 | <0.0005 | <0.0005 | | | |
| 12/6/2016 | | | | <0.0005 | <0.003 | <0.0005 |
| 12/7/2016 | <0.0005 | <0.0005 | <0.0005 | | | |
| 1/25/2017 | | | | <0.0005 | <0.003 | |
| 1/26/2017 | <0.0005 | <0.0005 | <0.0005 | | | <0.0005 |
| 3/21/2017 | | | | <0.0005 | <0.003 | |
| 3/22/2017 | 9E-05 (J) | <0.0005 | <0.0005 | | | <0.0005 |
| 5/23/2017 | | | | <0.0005 | <0.003 | <0.0005 |
| 5/24/2017 | <0.0005 | <0.0005 | <0.0005 | | | |
| 4/3/2018 | | | | <0.0005 | <0.003 | <0.0005 |
| 4/4/2018 | <0.0005 | <0.0005 | <0.0005 | | | |
| 3/12/2019 | | | | | <0.003 | |
| 3/13/2019 | 0.0001 (J) | | 6.2E-05 (J) | <0.0005 | | <0.0005 |
| 3/14/2019 | | <0.0005 | | | | |
| 4/2/2019 | | | | <0.0005 | | |
| 4/3/2019 | 0.00017 (J) | <0.0005 | | | 7.4E-05 (J) | <0.0005 |
| 4/5/2019 | | | <0.0005 | | | |
| 9/24/2019 | | | | | <0.003 | |
| 9/25/2019 | | | | <0.0005 | | |
| 9/26/2019 | | | 0.00011 (J) | | | |
| 9/27/2019 | 8.6E-05 (J) | <0.0005 | | | | <0.0005 |
| 3/3/2020 | 0.00012 (J) | <0.0005 | | | <0.003 | |
| 3/4/2020 | | | 9.3E-05 (J) | 7.7E-05 (J) | | <0.0005 |
| 3/26/2020 | | <0.0005 | | | | |
| 3/27/2020 | | | | <0.0005 | <0.003 | |
| 3/30/2020 | | | 9.9E-05 (J) | | | |
| 3/31/2020 | 0.00015 (J) | | | | | <0.0005 |
| 9/16/2020 | | | | <0.0005 | 0.0001 (J) | |
| 9/17/2020 | | | | | | <0.0005 |
| 9/18/2020 | <0.0005 | <0.0005 | | | | |
| 9/21/2020 | | | 0.00011 (J) | | | |
| 2/10/2021 | | | | 8.1E-05 (J) | | |
| 2/12/2021 | <0.0005 | <0.0005 | | | | |
| 2/16/2021 | | | | | 7.1E-05 (J) | <0.0005 |
| 2/22/2021 | | | 9.7E-05 (J) | | | |
| 3/15/2021 | | | | 0.00019 (J) | 7.8E-05 (J) | |
| 3/16/2021 | 8.1E-05 (J) | <0.0005 | | | | <0.0005 |
| 3/17/2021 | | | 9E-05 (J) | | | |
| 8/16/2021 | | | | <0.0005 | | |
| 8/17/2021 | | | | | | <0.0005 |
| 8/18/2021 | <0.0005 | <0.0005 | | | 8.7E-05 (J) | |
| 8/19/2021 | | | 7.3E-05 (J) | | | |
| 2/9/2022 | <0.0005 | <0.0005 | | | | <0.0005 |
| 2/10/2022 | | | <0.0005 | <0.0005 | 7.1E-05 (J) | |
| 8/3/2022 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 5.6E-05 (J) | |
| 8/4/2022 | | | | | | <0.0005 |
| 8/11/2022 | | | | <0.0005 | | |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|---------|-------------|---------|-------------|---------|
| 1/26/2023 | <0.0005 | <0.0005 | 9.9E-05 (J) | | | <0.0005 |
| 1/27/2023 | | | | <0.0005 | | |
| 2/1/2023 | | | | | 5.6E-05 (J) | |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------------|---------|---------|---------|---------|---------|
| 3/13/2019 | | <0.0005 | <0.0005 | | <0.0005 | <0.0005 |
| 3/14/2019 | <0.0005 | | | <0.0005 | | |
| 4/2/2019 | | <0.0005 | | | | |
| 4/3/2019 | <0.0005 | | | <0.0005 | <0.0005 | |
| 4/4/2019 | | | | | | <0.0005 |
| 4/8/2019 | | | <0.0005 | | | |
| 9/25/2019 | | <0.0005 | | | | |
| 9/26/2019 | | | <0.0005 | | <0.0005 | <0.0005 |
| 9/27/2019 | <0.0005 | | | <0.0005 | | |
| 3/2/2020 | | <0.0005 | | | | |
| 3/3/2020 | | | | <0.0005 | | |
| 3/4/2020 | <0.0005 | | <0.0005 | | <0.0005 | <0.0005 |
| 3/26/2020 | <0.0005 | | | <0.0005 | | |
| 3/27/2020 | | <0.0005 | | | | |
| 3/30/2020 | | | <0.0005 | | | |
| 3/31/2020 | | | | | <0.0005 | |
| 4/2/2020 | | | | | | <0.0005 |
| 9/17/2020 | | <0.0005 | | | <0.0005 | |
| 9/18/2020 | | | | <0.0005 | | <0.0005 |
| 9/21/2020 | <0.0005 | | <0.0005 | | | |
| 2/11/2021 | | <0.0005 | | | | |
| 2/12/2021 | <0.0005 | | | <0.0005 | | |
| 2/16/2021 | | | <0.0005 | | <0.0005 | <0.0005 |
| 3/12/2021 | | | | | | <0.0005 |
| 3/15/2021 | | <0.0005 | | | | |
| 3/16/2021 | | | | <0.0005 | | |
| 3/17/2021 | <0.0005 | | <0.0005 | | <0.0005 | |
| 8/17/2021 | | <0.0005 | | | <0.0005 | <0.0005 |
| 8/18/2021 | 5.8E-05 (J) | | | | | |
| 8/19/2021 | | | <0.0005 | <0.0005 | | |
| 2/9/2022 | <0.0005 | | | <0.0005 | <0.0005 | |
| 2/10/2022 | | <0.0005 | <0.0005 | | | <0.0005 |
| 8/3/2022 | | | <0.0005 | | | <0.0005 |
| 8/4/2022 | <0.0005 | <0.0005 | | <0.0005 | <0.0005 | |
| 1/26/2023 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 1/27/2023 | | | | | | <0.0005 |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|-------------|---------|---------|---------|-------------|
| 3/12/2019 | <0.0005 | <0.0005 | | | |
| 3/13/2019 | | | <0.0005 | <0.0005 | <0.0005 |
| 4/2/2019 | <0.0005 | <0.0005 | | | |
| 4/3/2019 | | | <0.0005 | <0.0005 | 5.1E-05 (J) |
| 9/24/2019 | | <0.0005 | | | |
| 9/25/2019 | | | <0.0005 | | |
| 9/26/2019 | <0.0005 | | | <0.0005 | <0.0005 |
| 3/2/2020 | | <0.0005 | <0.0005 | | |
| 3/3/2020 | | | | <0.0005 | <0.0005 |
| 3/4/2020 | 0.00014 (J) | | | | |
| 3/26/2020 | | | <0.0005 | | |
| 3/27/2020 | <0.0005 | | | <0.0005 | |
| 3/30/2020 | | <0.0005 | | | <0.0005 |
| 9/16/2020 | | <0.0005 | | | |
| 9/17/2020 | | | <0.0005 | | |
| 9/21/2020 | <0.0005 | | | <0.0005 | <0.0005 |
| 2/10/2021 | 5.4E-05 (J) | | | | |
| 2/15/2021 | | <0.0005 | | | <0.0005 |
| 2/16/2021 | | | <0.0005 | <0.0005 | |
| 3/15/2021 | 4.8E-05 (J) | <0.0005 | | | <0.0005 |
| 3/16/2021 | | | <0.0005 | <0.0005 | |
| 8/16/2021 | | <0.0005 | | | |
| 8/17/2021 | | | <0.0005 | <0.0005 | <0.0005 |
| 8/18/2021 | <0.0005 | | | | |
| 2/8/2022 | | | | | <0.0005 |
| 2/9/2022 | | | <0.0005 | <0.0005 | |
| 2/10/2022 | <0.0005 | <0.0005 | | | |
| 8/3/2022 | | <0.0005 | <0.0005 | <0.0005 | |
| 8/4/2022 | <0.0005 | | | | <0.0005 |
| 1/26/2023 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |

Time Series

Constituent: Boron (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|---------|
| 5/19/2016 | 0.0214 (J) | 0.0321 (J) | <0.04 | | | |
| 5/23/2016 | | | | | | 0.72 |
| 7/11/2016 | 0.0142 (J) | 0.0337 (J) | | | | |
| 7/12/2016 | | | 0.0074 (J) | | | 0.778 |
| 8/30/2016 | 0.0074 (J) | 0.0173 (J) | <0.04 | | | |
| 9/1/2016 | | | | | | 0.786 |
| 10/19/2016 | 0.0224 (J) | 0.0341 (J) | 0.0085 (J) | | | |
| 10/24/2016 | | | | | | 0.831 |
| 12/6/2016 | 0.0211 (J) | 0.0326 (J) | 0.0085 (J) | | | |
| 12/7/2016 | | | | | | 1.01 |
| 1/24/2017 | 0.0165 (J) | 0.0365 (J) | 0.01 (J) | | | |
| 1/26/2017 | | | | | | 0.108 |
| 3/21/2017 | 0.0187 (J) | 0.0349 (J) | 0.0079 (J) | | | |
| 3/22/2017 | | | | | | 0.788 |
| 5/22/2017 | 0.0782 | 0.0475 | 0.0131 (J) | | | |
| 5/24/2017 | | | | | | 0.814 |
| 10/3/2017 | 0.0198 (J) | 0.0386 (J) | 0.0097 (J) | | | 0.871 |
| 6/4/2018 | 0.02 (J) | 0.036 (J) | 0.017 (J) | | | |
| 6/5/2018 | | | | | | 1.2 |
| 10/1/2018 | 0.013 (J) | 0.035 (J) | 0.0061 (J) | | | |
| 10/2/2018 | | | | | | 0.62 |
| 4/1/2019 | | | 0.0066 (J) | | | |
| 4/2/2019 | 0.016 (J) | 0.034 (J) | | | | |
| 4/3/2019 | | | | | | 0.66 |
| 9/23/2019 | 0.021 (J) | 0.04 (J) | 0.0081 (J) | | | |
| 9/27/2019 | | | | | | 1 |
| 3/25/2020 | 0.025 (J) | 0.039 (J) | 0.0096 (J) | | | |
| 4/1/2020 | | | | | | 0.23 |
| 6/16/2020 | 0.021 (J) | | 0.01 (J) | | | |
| 9/15/2020 | 0.017 (J) | 0.044 (J) | 0.0071 (J) | | | |
| 9/16/2020 | | | | 0.061 (J) | 0.23 | 1.1 |
| 11/10/2020 | | | | 0.057 (J) | 0.29 | |
| 12/15/2020 | | | | 0.052 (J) | 0.31 | |
| 1/19/2021 | | | | 0.049 (J) | 0.4 | |
| 3/10/2021 | 0.015 (J) | | | | 0.39 | |
| 3/11/2021 | | 0.056 | 0.015 (J) | 0.06 | | |
| 3/12/2021 | | | | | | 0.64 |
| 8/11/2021 | 0.02 (J) | | | 0.042 | | |
| 8/12/2021 | | 0.044 | <0.04 | | | |
| 8/13/2021 | | | | | 0.31 | |
| 8/17/2021 | | | | | | 0.88 |
| 2/1/2022 | 0.016 (J) | 0.056 | 0.011 (J) | 0.05 | 0.44 | |
| 2/9/2022 | | | | | | 0.1 |
| 8/2/2022 | 0.012 (J) | 0.047 | <0.04 | 0.043 | 0.31 | |
| 8/3/2022 | | | | | | 0.53 |
| 1/23/2023 | | | 0.012 (J) | | | |
| 1/24/2023 | 0.015 (J) | 0.046 | | 0.037 (J) | 0.44 | |
| 1/27/2023 | | | | | | 0.065 |

Time Series

Constituent: Boron (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|---------|---------|----------|--------|--------|--------|
| 5/20/2016 | | | | 0.885 | 1.71 | |
| 5/23/2016 | 0.787 | 2.2 | 2.15 | | | 1.76 |
| 7/12/2016 | 1.17 | 1.98 | 1.91 | 0.857 | 1.43 | 1.56 |
| 9/1/2016 | 1.49 | 2.28 | 2.3 | 0.904 | 1.91 | 2 |
| 10/20/2016 | | | | 0.936 | 1.72 | 1.68 |
| 10/24/2016 | 2.54 | 2.75 | 4.01 | | | |
| 12/6/2016 | | | | 1.06 | 2.06 | 2.15 |
| 12/7/2016 | 2.96 | 3.35 | 3.85 | | | |
| 1/25/2017 | | | | 0.764 | 2.01 | |
| 1/26/2017 | 2.23 | 3.07 | 2.45 | | | 1.87 |
| 3/21/2017 | | | | 0.857 | 2.08 | |
| 3/22/2017 | 0.84 | 3.04 | 1.99 | | | 1.99 |
| 5/23/2017 | | | | 0.91 | 2.32 | 2.29 |
| 5/24/2017 | 2.29 | 2.95 | 1.74 | | | |
| 10/3/2017 | 1.47 | 2.35 | 1.43 | 0.967 | 2.84 | 2.05 |
| 6/5/2018 | 1.3 | | 1.3 | 0.86 | | |
| 6/6/2018 | | 2.5 | | | 2.6 | 2.3 |
| 10/2/2018 | | | | 0.98 | 2.7 | 2.5 |
| 10/3/2018 | 0.91 | 2.3 | | | | |
| 10/5/2018 | | | 1.6 | | | |
| 4/2/2019 | | | | 0.99 | | |
| 4/3/2019 | 0.23 | 1.8 | | | 2.8 | 2.3 |
| 4/5/2019 | | | 0.86 (J) | | | |
| 9/24/2019 | | | | | 2.8 | |
| 9/25/2019 | | | | 1.1 | | |
| 9/26/2019 | | | 1.7 | | | |
| 9/27/2019 | 0.53 | 2.1 | | | | 2.9 |
| 3/26/2020 | | 1.6 | | | | |
| 3/27/2020 | | | | 1.2 | 2.4 | |
| 3/30/2020 | | | 1.8 | | | |
| 3/31/2020 | 0.17 | | | | | 2.2 |
| 6/16/2020 | | | | | 2.2 | |
| 6/17/2020 | | | | 1 | | |
| 9/16/2020 | | | | 1.1 | 1.9 | |
| 9/17/2020 | | | | | | 2 |
| 9/18/2020 | 0.91 | 1.6 | | | | |
| 9/21/2020 | | | 1.6 | | | |
| 3/15/2021 | | | | 1.1 | 1.7 | |
| 3/16/2021 | 0.53 | 1.9 | | | | 2.2 |
| 3/17/2021 | | | 0.89 | | | |
| 8/16/2021 | | | | 1.1 | | |
| 8/17/2021 | | | | | | 2.3 |
| 8/18/2021 | 0.91 | 1.9 | | | 1.8 | |
| 8/19/2021 | | | 0.73 | | | |
| 2/9/2022 | 1 | 2 | | | | 2.3 |
| 2/10/2022 | | | 1 | 1.3 | 1.7 | |
| 8/3/2022 | 0.64 | 1.5 | 0.76 | 1.1 | 1.5 | |
| 8/4/2022 | | | | | | 2 |
| 8/11/2022 | | | | 1.1 | | |
| 1/26/2023 | 0.5 | 1.5 | 0.83 | | | 1.9 |
| 1/27/2023 | | | | 0.93 | | |
| 2/1/2023 | | | | | 1.9 | |

Time Series

Constituent: Boron (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------|-------|----------|--------|--------|----------|
| 4/2/2019 | | 0.11 | | | | |
| 4/3/2019 | 0.63 | | | 0.37 | 1.5 | |
| 4/4/2019 | | | | | | 0.12 (J) |
| 4/8/2019 | | | 0.47 (J) | | | |
| 9/25/2019 | | 0.091 | | | | |
| 9/26/2019 | | | 0.49 | | 2 | 0.14 |
| 9/27/2019 | 0.58 | | | 0.36 | | |
| 3/26/2020 | 1 | | | 0.44 | | |
| 3/27/2020 | | 0.12 | | | | |
| 3/30/2020 | | | 0.51 | | | |
| 3/31/2020 | | | | | 1.8 | |
| 4/2/2020 | | | | | | 0.13 |
| 9/17/2020 | | 0.11 | | | 2 | |
| 9/18/2020 | | | | 0.36 | | 0.12 |
| 9/21/2020 | 0.89 | | 0.45 | | | |
| 3/12/2021 | | | | | | 0.13 |
| 3/15/2021 | | 0.12 | | | | |
| 3/16/2021 | | | | 0.4 | | |
| 3/17/2021 | 0.69 | | 0.49 | | 2.1 | |
| 8/17/2021 | | 0.11 | | | 2.2 | 0.14 |
| 8/18/2021 | 0.55 | | | | | |
| 8/19/2021 | | | 0.52 | 0.4 | | |
| 2/9/2022 | 0.49 | | | 0.43 | 2.3 | |
| 2/10/2022 | | 0.13 | 0.55 | | | 0.13 |
| 8/3/2022 | | | 0.49 | | | 0.12 |
| 8/4/2022 | 0.58 | 0.11 | | 0.35 | 2 | |
| 1/26/2023 | 0.36 | 0.099 | 0.47 | 0.3 | 1.8 | |
| 1/27/2023 | | | | | | 0.12 |

Time Series

Constituent: Boron (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|--------|-------|-----------|------|-----------|
| 4/2/2019 | 0.17 | 1.2 | | | |
| 4/3/2019 | | | 0.03 (J) | 0.67 | 0.094 |
| 9/24/2019 | | 1.2 | | | |
| 9/25/2019 | | | 0.11 | | |
| 9/26/2019 | 0.6 | | | 0.93 | 0.26 |
| 3/26/2020 | | | 0.041 (J) | | |
| 3/27/2020 | 0.14 | | | 0.77 | |
| 3/30/2020 | | 1.3 | | | 0.051 (J) |
| 9/16/2020 | | 1.7 | | | |
| 9/17/2020 | | | 0.067 (J) | | |
| 9/21/2020 | 0.45 | | | 0.82 | 0.2 |
| 3/15/2021 | 0.36 | 1.2 | | | 0.16 |
| 3/16/2021 | | | 0.037 (J) | 0.81 | |
| 8/16/2021 | | 1.1 | | | |
| 8/17/2021 | | | 0.026 (J) | 0.85 | 0.2 |
| 8/18/2021 | 0.72 | | | | |
| 2/8/2022 | | | | | 0.19 |
| 2/9/2022 | | | 0.042 | 0.96 | |
| 2/10/2022 | 0.23 | 1.4 | | | |
| 8/3/2022 | | 1.1 | 0.034 (J) | 0.75 | |
| 8/4/2022 | 0.55 | | | | 0.14 |
| 1/26/2023 | 0.29 | 1 | 0.044 | 0.71 | 0.033 (J) |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|--------------|
| 5/19/2016 | <0.0005 | <0.0005 | <0.0005 | | | |
| 5/23/2016 | | | | | | 0.000115 (J) |
| 7/11/2016 | <0.0005 | <0.0005 | | | | |
| 7/12/2016 | | | <0.0005 | | | <0.0005 |
| 8/30/2016 | <0.0005 | <0.0005 | <0.0005 | | | |
| 9/1/2016 | | | | | | 0.0001 (J) |
| 10/19/2016 | <0.0005 | <0.0005 | <0.0005 | | | |
| 10/24/2016 | | | | | | 0.0001 (J) |
| 12/6/2016 | <0.0005 | <0.0005 | <0.0005 | | | |
| 12/7/2016 | | | | | | 0.0001 (J) |
| 1/24/2017 | <0.0005 | 0.0001 (J) | <0.0005 | | | |
| 1/26/2017 | | | | | | <0.0005 |
| 3/21/2017 | <0.0005 | 7E-05 (J) | <0.0005 | | | |
| 3/22/2017 | | | | | | 0.0001 (J) |
| 5/22/2017 | <0.0005 | 0.0001 (J) | <0.0005 | | | |
| 5/24/2017 | | | | | | 0.0002 (J) |
| 4/2/2018 | <0.0005 | <0.0005 | | | | |
| 4/3/2018 | | | <0.0005 | | | |
| 4/4/2018 | | | | | | <0.0005 |
| 3/12/2019 | <0.0005 | 0.00013 (J) | <0.0005 | | | |
| 3/13/2019 | | | | | | <0.0005 |
| 4/1/2019 | | | <0.0005 | | | |
| 4/2/2019 | <0.0005 | 0.00015 (J) | | | | |
| 4/3/2019 | | | | | | 0.0001 (J) |
| 9/23/2019 | <0.0005 | <0.0005 | <0.0005 | | | |
| 9/27/2019 | | | | | | <0.0005 |
| 3/2/2020 | <0.0005 | <0.0005 | <0.0005 | | | |
| 3/3/2020 | | | | | | <0.0005 |
| 3/25/2020 | <0.0005 | 0.00014 (J) | <0.0005 | | | |
| 4/1/2020 | | | | | | <0.0005 |
| 9/15/2020 | <0.0005 | 0.00012 (J) | <0.0005 | | | |
| 9/16/2020 | | | | <0.0005 | <0.0005 | <0.0005 |
| 11/10/2020 | | | | <0.0005 | <0.0005 | |
| 12/15/2020 | | | | <0.0005 | <0.0005 | |
| 1/19/2021 | | | | <0.0005 | <0.0005 | |
| 2/8/2021 | <0.0005 | | | | | |
| 2/9/2021 | | 0.00016 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 2/15/2021 | | | | | | <0.0005 |
| 3/10/2021 | <0.0005 | | | | <0.0005 | |
| 3/11/2021 | | <0.0005 | <0.0005 | <0.0005 | | |
| 3/12/2021 | | | | | | <0.0005 |
| 8/11/2021 | <0.0005 | | | <0.0005 | | |
| 8/12/2021 | | 0.00014 (J) | <0.0005 | | | |
| 8/13/2021 | | | | | <0.0005 | |
| 8/17/2021 | | | | | | <0.0005 |
| 2/1/2022 | <0.0005 | 0.00017 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 2/9/2022 | | | | | | <0.0005 |
| 8/2/2022 | <0.0005 | 0.00023 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 8/3/2022 | | | | | | <0.0005 |
| 1/23/2023 | | | <0.0005 | | | |
| 1/24/2023 | <0.0005 | 0.00021 (J) | | <0.0005 | <0.0005 | |
| 1/27/2023 | | | | | | <0.0005 |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-------------|-------------|---------|------------|-------------|------------|
| 5/20/2016 | | | | <0.0005 | 0.00024 (J) | |
| 5/23/2016 | <0.0005 | <0.0005 | <0.0005 | | | <0.0005 |
| 7/12/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.0002 (J) | <0.0005 |
| 9/1/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.0001 (J) | <0.0005 |
| 10/20/2016 | | | | <0.0005 | 0.0001 (J) | 0.0002 (J) |
| 10/24/2016 | <0.0005 | <0.0005 | <0.0005 | | | |
| 12/6/2016 | | | | 0.0002 (J) | 0.0017 | 0.0001 (J) |
| 12/7/2016 | 0.0001 (J) | 0.0002 (J) | <0.0005 | | | |
| 1/25/2017 | | | | 0.0002 (J) | 0.0002 (J) | |
| 1/26/2017 | <0.0005 | <0.0005 | <0.0005 | | | <0.0005 |
| 3/21/2017 | | | | 0.0002 (J) | 0.0002 (J) | |
| 3/22/2017 | 0.0001 (J) | 0.0003 (J) | <0.0005 | | | 7E-05 (J) |
| 5/23/2017 | | | | 0.0001 (J) | 0.0003 (J) | <0.0005 |
| 5/24/2017 | <0.0005 | 9E-05 (J) | <0.0005 | | | |
| 4/3/2018 | | | | <0.0005 | <0.001 | <0.0005 |
| 4/4/2018 | <0.0005 | <0.0005 | <0.0005 | | | |
| 3/12/2019 | | | | | 0.0002 (J) | |
| 3/13/2019 | <0.0005 | | <0.0005 | <0.0005 | | <0.0005 |
| 3/14/2019 | | <0.0005 | | | | |
| 4/2/2019 | | | | <0.0005 | | |
| 4/3/2019 | 9.6E-05 (J) | <0.0005 | | | 0.00032 (J) | <0.0005 |
| 4/5/2019 | | | <0.0005 | | | |
| 9/24/2019 | | | | | 0.0002 (J) | |
| 9/25/2019 | | | | <0.0005 | | |
| 9/26/2019 | | | <0.0005 | | | |
| 9/27/2019 | <0.0005 | <0.0005 | | | | <0.0005 |
| 3/3/2020 | <0.0005 | 0.00015 (J) | | | 0.00017 (J) | |
| 3/4/2020 | | | <0.0005 | <0.0005 | | <0.0005 |
| 3/26/2020 | | <0.0005 | | | | |
| 3/27/2020 | | | | <0.0005 | 0.00014 (J) | |
| 3/30/2020 | | | <0.0005 | | | |
| 3/31/2020 | <0.0005 | | | | | <0.0005 |
| 9/16/2020 | | | | <0.0005 | 0.00023 (J) | |
| 9/17/2020 | | | | | | <0.0005 |
| 9/18/2020 | <0.0005 | <0.0005 | | | | |
| 9/21/2020 | | | <0.0005 | | | |
| 2/10/2021 | | | | <0.0005 | | |
| 2/12/2021 | <0.0005 | <0.0005 | | | | |
| 2/16/2021 | | | | | 0.00037 (J) | <0.0005 |
| 2/22/2021 | | | <0.0005 | | | |
| 3/15/2021 | | | | <0.0005 | 0.00017 (J) | |
| 3/16/2021 | <0.0005 | <0.0005 | | | | <0.0005 |
| 3/17/2021 | | | <0.0005 | | | |
| 8/16/2021 | | | | <0.0005 | | |
| 8/17/2021 | | | | | | <0.0005 |
| 8/18/2021 | <0.0005 | <0.0005 | | | 0.0002 (J) | |
| 8/19/2021 | | | <0.0005 | | | |
| 2/9/2022 | <0.0005 | <0.0005 | | | | <0.0005 |
| 2/10/2022 | | | <0.0005 | <0.0005 | 0.00029 (J) | |
| 8/3/2022 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.00017 (J) | |
| 8/4/2022 | | | | | | <0.0005 |
| 8/11/2022 | | | | <0.0005 | | |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|---------|---------|-------------|-------------|---------|
| 1/26/2023 | <0.0005 | <0.0005 | <0.0005 | | | <0.0005 |
| 1/27/2023 | | | | 0.00019 (J) | | |
| 2/1/2023 | | | | | 0.00014 (J) | |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------------|---------|---------|---------|---------|---------|
| 3/13/2019 | | <0.0005 | <0.0005 | | <0.0005 | <0.0005 |
| 3/14/2019 | <0.0005 | | | <0.0005 | | |
| 4/2/2019 | | <0.0005 | | | | |
| 4/3/2019 | <0.0005 | | | <0.0005 | <0.0005 | |
| 4/4/2019 | | | | | | <0.0005 |
| 4/8/2019 | | | <0.0005 | | | |
| 9/25/2019 | | <0.0005 | | | | |
| 9/26/2019 | | | <0.0005 | | <0.0005 | <0.0005 |
| 9/27/2019 | 0.00013 (J) | | | <0.0005 | | |
| 3/2/2020 | | <0.0005 | | | | |
| 3/3/2020 | | | | <0.0005 | | |
| 3/4/2020 | 0.00026 (J) | | <0.0005 | | <0.0005 | <0.0005 |
| 3/26/2020 | 0.00019 (J) | | | <0.0005 | | |
| 3/27/2020 | | <0.0005 | | | | |
| 3/30/2020 | | | <0.0005 | | | |
| 3/31/2020 | | | | | <0.0005 | |
| 4/2/2020 | | | | | | <0.0005 |
| 9/17/2020 | | <0.0005 | | | <0.0005 | |
| 9/18/2020 | | | | <0.0005 | | <0.0005 |
| 9/21/2020 | 0.00018 (J) | | <0.0005 | | | |
| 2/11/2021 | | <0.0005 | | | | |
| 2/12/2021 | 0.0002 (J) | | | <0.0005 | | |
| 2/16/2021 | | | <0.0005 | | <0.0005 | <0.0005 |
| 3/12/2021 | | | | | | <0.0005 |
| 3/15/2021 | | <0.0005 | | | | |
| 3/16/2021 | | | | <0.0005 | | |
| 3/17/2021 | 0.00016 (J) | | <0.0005 | | <0.0005 | |
| 8/17/2021 | | <0.0005 | | | <0.0005 | <0.0005 |
| 8/18/2021 | 0.00027 (J) | | | | | |
| 8/19/2021 | | | <0.0005 | <0.0005 | | |
| 2/9/2022 | 0.0011 | | | <0.0005 | <0.0005 | |
| 2/10/2022 | | <0.0005 | <0.0005 | | | <0.0005 |
| 8/3/2022 | | | <0.0005 | | | <0.0005 |
| 8/4/2022 | 0.00022 (J) | <0.0005 | | <0.0005 | <0.0005 | |
| 1/26/2023 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 1/27/2023 | | | | | | <0.0005 |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|---------|---------|---------|---------|---------|
| 3/12/2019 | <0.0005 | <0.0005 | | | |
| 3/13/2019 | | | <0.0005 | <0.0005 | <0.0005 |
| 4/2/2019 | <0.0005 | <0.0005 | | | |
| 4/3/2019 | | | <0.0005 | <0.0005 | <0.0005 |
| 9/24/2019 | | <0.0005 | | | |
| 9/25/2019 | | | <0.0005 | | |
| 9/26/2019 | <0.0005 | | | <0.0005 | <0.0005 |
| 3/2/2020 | | <0.0005 | <0.0005 | | |
| 3/3/2020 | | | | <0.0005 | <0.0005 |
| 3/4/2020 | <0.0005 | | | | |
| 3/26/2020 | | | <0.0005 | | |
| 3/27/2020 | <0.0005 | | | <0.0005 | |
| 3/30/2020 | | <0.0005 | | | <0.0005 |
| 9/16/2020 | | <0.0005 | | | |
| 9/17/2020 | | | <0.0005 | | |
| 9/21/2020 | <0.0005 | | | <0.0005 | <0.0005 |
| 2/10/2021 | <0.0005 | | | | |
| 2/15/2021 | | <0.0005 | | | <0.0005 |
| 2/16/2021 | | | <0.0005 | <0.0005 | |
| 3/15/2021 | <0.0005 | <0.0005 | | | <0.0005 |
| 3/16/2021 | | | <0.0005 | <0.0005 | |
| 8/16/2021 | | <0.0005 | | | |
| 8/17/2021 | | | <0.0005 | <0.0005 | <0.0005 |
| 8/18/2021 | <0.0005 | | | | |
| 2/8/2022 | | | | | <0.0005 |
| 2/9/2022 | | | <0.0005 | <0.0005 | |
| 2/10/2022 | <0.0005 | <0.0005 | | | |
| 8/3/2022 | | <0.0005 | <0.0005 | <0.0005 | |
| 8/4/2022 | <0.0005 | | | | <0.0005 |
| 1/26/2023 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|----------|
| 5/19/2016 | 138 | 22.9 | 76.2 | | | |
| 5/23/2016 | | | | | | 167 |
| 7/11/2016 | 97.2 | 22.3 | | | | |
| 7/12/2016 | | | 61.5 | | | 143 |
| 8/30/2016 | 97.5 | 26.4 | 65.1 | | | |
| 9/1/2016 | | | | | | 156 |
| 10/19/2016 | 99.2 | 21.7 | 73.2 | | | |
| 10/24/2016 | | | | | | 156 |
| 12/6/2016 | 105 | 18.2 | 74.9 | | | |
| 12/7/2016 | | | | | | 183 |
| 1/24/2017 | 95.7 | 18.5 | 69.6 | | | |
| 1/26/2017 | | | | | | 82.6 |
| 3/21/2017 | 106 | 18.6 | 75.7 | | | |
| 3/22/2017 | | | | | | 154 |
| 5/22/2017 | 107 | 17.8 | 71.5 | | | |
| 5/24/2017 | | | | | | 171 |
| 10/3/2017 | 102 | 20.2 | 76.3 | | | 162 |
| 6/4/2018 | 124 | 19.1 | 73.4 | | | |
| 6/5/2018 | | | | | | 167 |
| 10/1/2018 | 108 | 20.5 (J) | 80.9 | | | |
| 10/2/2018 | | | | | | 144 |
| 4/1/2019 | | | 80.5 | | | |
| 4/2/2019 | 132 | 22.5 (J) | | | | |
| 4/3/2019 | | | | | | 137 |
| 9/23/2019 | 118 | 19.5 | 71 | | | |
| 9/27/2019 | | | | | | 157 |
| 3/25/2020 | 127 | 23 | 89.8 | | | |
| 4/1/2020 | | | | | | 96.2 |
| 6/16/2020 | 130 | | 85.1 | | | |
| 9/15/2020 | 103 | 21.1 | 73.1 | | | |
| 9/16/2020 | | | | 56 | 30 | 139 |
| 11/10/2020 | | | | 63.3 | 33.6 | |
| 12/15/2020 | | | | 62.6 | 28.7 | |
| 1/19/2021 | | | | 60.1 | 33 | |
| 3/10/2021 | 111 | | | | 5.9 | |
| 3/11/2021 | | 43.8 | 83.8 | 59.6 | | |
| 3/12/2021 | | | | | | 146 (M1) |
| 8/11/2021 | 113 | | | 61 | | |
| 8/12/2021 | | 21.9 | 84 | | | |
| 8/13/2021 | | | | | 28.9 | |
| 8/17/2021 | | | | | | 153 |
| 2/1/2022 | 106 | 27.2 | 85.1 | 55.9 | 24.8 | |
| 2/9/2022 | | | | | | 76.8 |
| 8/2/2022 | 117 | 31.2 | 84.6 | 54.1 | 20.9 | |
| 8/3/2022 | | | | | | 125 |
| 1/23/2023 | | | 85 | | | |
| 1/24/2023 | 117 | 29.4 | | 56.6 | 13.2 | |
| 1/27/2023 | | | | | | 60.4 |

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|---------|---------|---------|--------|--------|--------|
| 5/20/2016 | | | | 117 | 159 | |
| 5/23/2016 | 131 | 195 | 133 | | | 179 |
| 7/12/2016 | 124 | 181 | 101 | 88.8 | 127 | 174 |
| 9/1/2016 | 107 | 179 | 120 | 96.3 | 135 | 170 |
| 10/20/2016 | | | | 96.9 | 134 | 133 |
| 10/24/2016 | 145 | 193 | 127 | | | |
| 12/6/2016 | | | | 104 | 142 | 181 |
| 12/7/2016 | 159 | 193 | 113 | | | |
| 1/25/2017 | | | | 94.5 | 142 | |
| 1/26/2017 | 121 | 172 | 77.9 | | | 175 |
| 3/21/2017 | | | | 109 | 148 | |
| 3/22/2017 | 130 | 162 | 85.1 | | | 183 |
| 5/23/2017 | | | | 93.3 | 140 | 181 |
| 5/24/2017 | 117 | 158 | 77.1 | | | |
| 10/3/2017 | 87.7 | 130 | 62 | 108 | 158 | 188 |
| 6/5/2018 | 113 | | 110 | 99.8 | | |
| 6/6/2018 | | 136 | | | 127 | 184 |
| 10/2/2018 | | | | 108 | 118 | 173 |
| 10/3/2018 | 89 | 125 | | | | |
| 10/5/2018 | | | 73.6 | | | |
| 4/2/2019 | | | | 101 | | |
| 4/3/2019 | 112 | 114 | | | 125 | 164 |
| 4/5/2019 | | | 77.1 | | | |
| 9/24/2019 | | | | | 113 | |
| 9/25/2019 | | | | 105 | | |
| 9/26/2019 | | | 195 | | | |
| 9/27/2019 | 113 | 153 | | | | 175 |
| 3/26/2020 | | 145 | | | | |
| 3/27/2020 | | | | 119 | 133 | |
| 3/30/2020 | | | 234 | | | |
| 3/31/2020 | 124 | | | | | 182 |
| 6/16/2020 | | | | | 120 | |
| 6/17/2020 | | | | 112 | | |
| 9/16/2020 | | | | 98 | 119 | |
| 9/17/2020 | | | | | | 164 |
| 9/18/2020 | 122 | 163 | | | | |
| 9/21/2020 | | | 173 | | | |
| 3/15/2021 | | | | 113 | 156 | |
| 3/16/2021 | 132 | 166 | | | | 182 |
| 3/17/2021 | | | 184 | | | |
| 8/16/2021 | | | | 112 | | |
| 8/17/2021 | | | | | | 183 |
| 8/18/2021 | 128 | 163 | | | 147 | |
| 8/19/2021 | | | 179 | | | |
| 2/9/2022 | 144 | 172 | | | | 183 |
| 2/10/2022 | | | 206 | 108 | 153 | |
| 8/3/2022 | 131 | 167 | 237 | 125 | 153 | |
| 8/4/2022 | | | | | | 196 |
| 8/11/2022 | | | | 119 | | |
| 1/26/2023 | 113 | 154 | 234 | | | 173 |
| 1/27/2023 | | | | 124 | | |
| 2/1/2023 | | | | | 110 | |

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------|-------|--------|--------|--------|--------|
| 4/2/2019 | | 109 | | | | |
| 4/3/2019 | 74.9 | | | 25.4 | 122 | |
| 4/4/2019 | | | | | | 26.3 |
| 4/8/2019 | | | 83 | | | |
| 9/25/2019 | | 113 | | | | |
| 9/26/2019 | | | 83.1 | | 158 | 32.1 |
| 9/27/2019 | 90 | | | 26.4 | | |
| 3/26/2020 | 171 | | | 27 | | |
| 3/27/2020 | | 126 | | | | |
| 3/30/2020 | | | 84.4 | | | |
| 3/31/2020 | | | | | 155 | |
| 4/2/2020 | | | | | | 28.4 |
| 9/17/2020 | | 110 | | | 150 | |
| 9/18/2020 | | | | 25.1 | | 24.8 |
| 9/21/2020 | 135 | | 87.6 | | | |
| 3/12/2021 | | | | | | 28 |
| 3/15/2021 | | 121 | | | | |
| 3/16/2021 | | | | 24.8 | | |
| 3/17/2021 | 130 | | 102 | | 175 | |
| 8/17/2021 | | 123 | | | 177 | 28.5 |
| 8/18/2021 | 125 | | | | | |
| 8/19/2021 | | | 99.5 | 23.8 | | |
| 2/9/2022 | 97.6 | | | 23.5 | 176 | |
| 2/10/2022 | | 123 | 110 | | | 31.4 |
| 8/3/2022 | | | 102 | | | 30.8 |
| 8/4/2022 | 187 | 131 | | 22 | 186 | |
| 1/26/2023 | 118 | 122 | 107 | 21.8 | 179 | |
| 1/27/2023 | | | | | | 28.1 |

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|--------|-------|------|------|------|
| 4/2/2019 | 64.6 | 131 | | | |
| 4/3/2019 | | | 82 | 178 | 50.2 |
| 9/24/2019 | | 140 | | | |
| 9/25/2019 | | | 105 | | |
| 9/26/2019 | 84 | | | 189 | 83.9 |
| 3/26/2020 | | | 89.6 | | |
| 3/27/2020 | 53 | | | 186 | |
| 3/30/2020 | | 148 | | | 31.1 |
| 9/16/2020 | | 126 | | | |
| 9/17/2020 | | | 103 | | |
| 9/21/2020 | 76.8 | | | 173 | 75.3 |
| 3/15/2021 | 66.1 | 145 | | | 76.9 |
| 3/16/2021 | | | 71.8 | 184 | |
| 8/16/2021 | | 140 | | | |
| 8/17/2021 | | | 73.3 | 181 | 90.7 |
| 8/18/2021 | 82.8 | | | | |
| 2/8/2022 | | | | | 73.3 |
| 2/9/2022 | | | 68.1 | 178 | |
| 2/10/2022 | 58.5 | 156 | | | |
| 8/3/2022 | | 143 | 86.6 | 176 | |
| 8/4/2022 | 76.7 | | | | 73.1 |
| 1/26/2023 | 64.4 | 146 | 76.1 | 180 | 21.6 |

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|---------|
| 5/19/2016 | 9.94 | 6.14 | 5.93 | | | |
| 5/23/2016 | | | | | | 56.1 |
| 7/11/2016 | 6.3 | 5.9 | | | | |
| 7/12/2016 | | | 6.2 | | | 63 |
| 8/30/2016 | 6 | 6.2 | 6.4 | | | |
| 9/1/2016 | | | | | | 77 |
| 10/19/2016 | 5.8 | 6.1 | 6.5 | | | |
| 10/24/2016 | | | | | | 99 |
| 12/6/2016 | 5.4 | 6 | 7.2 | | | |
| 12/7/2016 | | | | | | 96 |
| 1/24/2017 | 5.2 | 6.1 | 6.4 | | | |
| 1/26/2017 | | | | | | 7 |
| 3/21/2017 | 4.6 | 5.9 | 7.5 | | | |
| 3/22/2017 | | | | | | 82 |
| 5/22/2017 | 4.6 | 5.9 | 6.5 | | | |
| 5/24/2017 | | | | | | 81 |
| 10/3/2017 | 5.6 | 6.3 | 6.5 | | | 100 |
| 6/4/2018 | 13.1 | 6.1 | 6.3 | | | |
| 6/5/2018 | | | | | | 66.6 |
| 10/1/2018 | 6.6 | 6.4 | 6.4 | | | |
| 10/2/2018 | | | | | | 48.3 |
| 4/1/2019 | | | 6.5 | | | |
| 4/2/2019 | 20.3 | 5.8 | | | | |
| 4/3/2019 | | | | | | 49.3 |
| 9/23/2019 | 17.7 | 5.1 | 5.9 | | | |
| 9/27/2019 | | | | | | 49.9 |
| 3/25/2020 | 20.4 | 5.2 | 6.1 | | | |
| 4/1/2020 | | | | | | 5.4 |
| 6/16/2020 | 41.1 | | 5.8 | | | |
| 9/15/2020 | 13.4 | 5 | 6 | | | |
| 9/16/2020 | | | | 4.1 | 7.2 | 39.7 |
| 11/10/2020 | | | | 4.4 | 7.8 | |
| 12/15/2020 | | | | 4.7 | 9.4 | |
| 1/19/2021 | | | | 4.1 | 9.5 | |
| 3/10/2021 | 7.4 | | | | 12.3 | |
| 3/11/2021 | | 5.1 | 5.9 | 4.5 | | |
| 3/12/2021 | | | | | | 35 |
| 8/11/2021 | 9.6 | | | 3.5 | | |
| 8/12/2021 | | 5.2 | 4.8 | | | |
| 8/13/2021 | | | | | 39.9 | |
| 8/17/2021 | | | | | | 28.3 |
| 2/1/2022 | 7.5 | 7 | 5.7 | 4.1 | 44.8 | |
| 2/9/2022 | | | | | | 1.2 |
| 8/2/2022 | 14.1 | 7.8 | 5.9 | 4.3 | 19.8 | |
| 8/3/2022 | | | | | | 12.3 |
| 1/23/2023 | | | 5.6 | | | |
| 1/24/2023 | 9 | 7.1 | | 4.3 | 24.9 | |
| 1/27/2023 | | | | | | 1.6 |

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|---------|---------|---------|--------|--------|--------|
| 5/20/2016 | | | | 50.4 | 109 | |
| 5/23/2016 | 51.9 | 160 | 93.2 | | | 152 |
| 7/12/2016 | 100 | 160 | 78 | 50 | 110 | 160 |
| 9/1/2016 | 58 | 140 | 100 | 50 | 110 | 160 |
| 10/20/2016 | | | | 49 | 110 | 110 |
| 10/24/2016 | 220 | 160 | 140 | | | |
| 12/6/2016 | | | | 51 | 100 | 150 |
| 12/7/2016 | 180 | 190 | 110 | | | |
| 1/25/2017 | | | | 54 | 110 | |
| 1/26/2017 | 90 | 160 | 70 | | | 170 |
| 3/21/2017 | | | | 46 | 110 | |
| 3/22/2017 | 37 | 130 | 59 | | | 160 |
| 5/23/2017 | | | | 49 | 130 | 150 |
| 5/24/2017 | 69 | 120 | 50 | | | |
| 10/3/2017 | 28 | 93 | 29 | 52 | 130 | 160 |
| 6/5/2018 | 56.1 | | 72.3 | 52.3 | | |
| 6/6/2018 | | 46.4 | | | 44.8 | 138 |
| 10/2/2018 | | | | 52.6 | 89.4 | 142 |
| 10/3/2018 | 24.8 | 88.4 | | | | |
| 10/5/2018 | | | 32.3 | | | |
| 4/2/2019 | | | | 55.5 | | |
| 4/3/2019 | 4.6 | 62.8 | | | 91.6 | 130 |
| 4/5/2019 | | | 36.4 | | | |
| 9/24/2019 | | | | | 60.2 | |
| 9/25/2019 | | | | 49.8 | | |
| 9/26/2019 | | | 109 | | | |
| 9/27/2019 | 27.9 | 81 | | | | 126 |
| 3/26/2020 | | 48 | | | | |
| 3/27/2020 | | | | 48.3 | 79.8 | |
| 3/30/2020 | | | 75.1 | | | |
| 3/31/2020 | 3.2 | | | | | 105 |
| 6/16/2020 | | | | | 67.9 | |
| 6/17/2020 | | | | 45.2 | | |
| 9/16/2020 | | | | 46.4 | 74.6 | |
| 9/17/2020 | | | | | | 105 |
| 9/18/2020 | 34.9 | 74.6 | | | | |
| 9/21/2020 | | | 41.2 | | | |
| 3/15/2021 | | | | 44.5 | 72.4 | |
| 3/16/2021 | 11.5 | 56.8 | | | | 94.7 |
| 3/17/2021 | | | 31.4 | | | |
| 8/16/2021 | | | | 40.3 | | |
| 8/17/2021 | | | | | | 88.6 |
| 8/18/2021 | 19.9 | 47.3 | | | 50.9 | |
| 8/19/2021 | | | 24.4 | | | |
| 2/9/2022 | 20.4 | 46.8 | | | | 84.4 |
| 2/10/2022 | | | 17.4 | 39.8 | 48.2 | |
| 8/3/2022 | 13.8 | 39.2 | 13 | 37.9 | 54.1 | |
| 8/4/2022 | | | | | | 86.8 |
| 8/11/2022 | | | | 37.7 | | |
| 1/26/2023 | 8.8 | 34.6 | 12.5 | | | 86.9 |
| 1/27/2023 | | | | 40 | | |
| 2/1/2023 | | | | | 52.4 | |

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------|-------|--------|--------|--------|--------|
| 4/2/2019 | | 27.5 | | | | |
| 4/3/2019 | 19.5 | | | 32 | 90.6 | |
| 4/4/2019 | | | | | | 26.9 |
| 4/8/2019 | | | 43.3 | | | |
| 9/25/2019 | | 25.7 | | | | |
| 9/26/2019 | | | 39.7 | | 118 | 31.8 |
| 9/27/2019 | 46.2 | | | 36.2 | | |
| 3/26/2020 | 64 | | | 34.6 | | |
| 3/27/2020 | | 28.8 | | | | |
| 3/30/2020 | | | 37.4 | | | |
| 3/31/2020 | | | | | 98 | |
| 4/2/2020 | | | | | | 27.9 |
| 9/17/2020 | | 29.7 | | | 103 | |
| 9/18/2020 | | | | 33.4 | | 30.4 |
| 9/21/2020 | 35 | | 45.2 | | | |
| 3/12/2021 | | | | | | 31.3 |
| 3/15/2021 | | 31.1 | | | | |
| 3/16/2021 | | | | 29.2 | | |
| 3/17/2021 | 19.8 | | 42.9 | | 95.3 | |
| 8/17/2021 | | 28.3 | | | 89.2 | 30 |
| 8/18/2021 | 14.3 | | | | | |
| 8/19/2021 | | | 37.2 | 30.8 | | |
| 2/9/2022 | 10.2 | | | 26.5 | 85.7 | |
| 2/10/2022 | | 31.4 | 38.2 | | | 31.4 |
| 8/3/2022 | | | 39.6 | | | 36.7 |
| 8/4/2022 | 11.3 | 31.4 | | 20.5 | 88.5 | |
| 1/26/2023 | 7.7 | 30 | 38 | 17.2 | 83.6 | |
| 1/27/2023 | | | | | | 32.5 |

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|--------|-------|----------|------|------|
| 4/2/2019 | 44 | 80.9 | | | |
| 4/3/2019 | | | 1.8 | 60.9 | 5.6 |
| 9/24/2019 | | 83.8 | | | |
| 9/25/2019 | | | 35.9 | | |
| 9/26/2019 | 43.5 | | | 64.9 | 15.6 |
| 3/26/2020 | | | 0.73 (J) | | |
| 3/27/2020 | 33 | | | 48.6 | |
| 3/30/2020 | | 71.2 | | | 1.5 |
| 9/16/2020 | | 75.3 | | | |
| 9/17/2020 | | | 28.7 | | |
| 9/21/2020 | 42.9 | | | 58.1 | 11.1 |
| 3/15/2021 | 35.8 | 73.6 | | | 6.8 |
| 3/16/2021 | | | 1.4 | 49.8 | |
| 8/16/2021 | | 68 | | | |
| 8/17/2021 | | | 1.4 | 43.5 | 8.9 |
| 8/18/2021 | 33.7 | | | | |
| 2/8/2022 | | | | | 6.9 |
| 2/9/2022 | | | 0.74 (J) | 37.9 | |
| 2/10/2022 | 29 | 66 | | | |
| 8/3/2022 | | 63.5 | 4.4 | 39.6 | |
| 8/4/2022 | 33.3 | | | | 4.7 |
| 1/26/2023 | 27.7 | 62.4 | 0.86 (J) | 30.5 | 1.2 |

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|------------|
| 5/19/2016 | <0.005 | <0.005 | <0.005 | | | |
| 5/23/2016 | | | | | | <0.005 |
| 7/11/2016 | <0.005 | <0.005 | | | | |
| 7/12/2016 | | | <0.005 | | | <0.005 |
| 8/30/2016 | <0.005 | <0.005 | <0.005 | | | |
| 9/1/2016 | | | | | | <0.005 |
| 10/19/2016 | <0.005 | <0.005 | <0.005 | | | |
| 10/24/2016 | | | | | | <0.005 |
| 12/6/2016 | <0.005 | <0.005 | <0.005 | | | |
| 12/7/2016 | | | | | | <0.005 |
| 1/24/2017 | <0.005 | <0.005 | <0.005 | | | |
| 1/26/2017 | | | | | | <0.005 |
| 3/21/2017 | 0.0005 (J) | <0.005 | <0.005 | | | |
| 3/22/2017 | | | | | | <0.005 |
| 5/22/2017 | <0.005 | <0.005 | 0.0007 (J) | | | |
| 5/24/2017 | | | | | | <0.005 |
| 4/2/2018 | <0.005 | <0.005 | | | | |
| 4/3/2018 | | | <0.005 | | | |
| 4/4/2018 | | | | | | <0.005 |
| 3/12/2019 | <0.005 | <0.005 | <0.005 | | | |
| 3/13/2019 | | | | | | <0.005 |
| 4/1/2019 | | | <0.005 | | | |
| 4/2/2019 | <0.005 | 0.0079 (J) | | | | |
| 4/3/2019 | | | | | | 0.02 |
| 9/23/2019 | <0.005 | 0.00058 (J) | <0.005 | | | |
| 9/27/2019 | | | | | | <0.005 |
| 3/2/2020 | <0.005 | 0.00041 (J) | <0.005 | | | |
| 3/3/2020 | | | | | | <0.005 |
| 3/25/2020 | 0.00072 (J) | <0.005 | <0.005 | | | |
| 4/1/2020 | | | | | | <0.005 |
| 9/15/2020 | <0.005 | <0.005 | <0.005 | | | |
| 9/16/2020 | | | | <0.005 | 0.0012 (J) | <0.005 |
| 11/10/2020 | | | | <0.005 | 0.00089 (J) | |
| 12/15/2020 | | | | <0.005 | 0.00072 (J) | |
| 1/19/2021 | | | | <0.005 | 0.0011 (J) | |
| 2/8/2021 | <0.005 | | | | | |
| 2/9/2021 | | <0.005 | <0.005 | 0.00095 (J) | 0.00066 (J) | |
| 2/15/2021 | | | | | | <0.005 |
| 3/10/2021 | <0.005 | | | | <0.005 | |
| 3/11/2021 | | <0.005 | <0.005 | <0.005 | | |
| 3/12/2021 | | | | | | <0.005 |
| 8/11/2021 | <0.005 | | | <0.005 | | |
| 8/12/2021 | | <0.005 | <0.005 | | | |
| 8/13/2021 | | | | | 0.0016 (J) | |
| 8/17/2021 | | | | | | <0.005 |
| 2/1/2022 | <0.005 | <0.005 | <0.005 | <0.005 | 0.0013 (J) | |
| 2/9/2022 | | | | | | 0.0011 (J) |
| 8/2/2022 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 8/3/2022 | | | | | | <0.005 |
| 1/23/2023 | | | <0.005 | | | |
| 1/24/2023 | <0.005 | <0.005 | | <0.005 | <0.005 | |
| 1/27/2023 | | | | | | 0.0012 (J) |

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 5/20/2016 | | | | <0.005 | <0.005 | |
| 5/23/2016 | <0.005 | <0.005 | <0.005 | | | <0.005 |
| 7/12/2016 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 9/1/2016 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 10/20/2016 | | | | <0.005 | <0.005 | <0.005 |
| 10/24/2016 | <0.005 | <0.005 | <0.005 | | | |
| 12/6/2016 | | | | <0.005 | <0.005 | <0.005 |
| 12/7/2016 | <0.005 | <0.005 | <0.005 | | | |
| 1/25/2017 | | | | <0.005 | <0.005 | |
| 1/26/2017 | <0.005 | <0.005 | <0.005 | | | <0.005 |
| 3/21/2017 | | | | <0.005 | 0.0005 (J) | |
| 3/22/2017 | 0.0003 (J) | 0.0004 (J) | 0.0004 (J) | | | <0.005 |
| 5/23/2017 | | | | <0.005 | <0.005 | <0.005 |
| 5/24/2017 | <0.005 | <0.005 | <0.005 | | | |
| 4/3/2018 | | | | <0.005 | <0.005 | <0.005 |
| 4/4/2018 | <0.005 | <0.005 | <0.005 | | | |
| 3/12/2019 | | | | | <0.005 | |
| 3/13/2019 | <0.005 | | <0.005 | <0.005 | | <0.005 |
| 3/14/2019 | | 0.0025 (J) | | | | |
| 4/2/2019 | | | | <0.005 | | |
| 4/3/2019 | <0.005 | <0.005 | | | <0.005 | <0.005 |
| 4/5/2019 | | | <0.005 | | | |
| 9/24/2019 | | | | | <0.005 | |
| 9/25/2019 | | | | 0.071 | | |
| 9/26/2019 | | | <0.005 | | | |
| 9/27/2019 | <0.005 | <0.005 | | | | <0.005 |
| 3/3/2020 | 0.00061 (J) | <0.005 | | | 0.0007 (J) | |
| 3/4/2020 | | | <0.005 | 0.0016 (J) | | <0.005 |
| 3/26/2020 | | <0.005 | | | | |
| 3/27/2020 | | | | 0.0004 (J) | <0.005 | |
| 3/30/2020 | | | 0.00059 (J) | | | |
| 3/31/2020 | <0.005 | | | | | 0.00052 (J) |
| 9/16/2020 | | | | 0.00074 (J) | 0.0015 (J) | |
| 9/17/2020 | | | | | | <0.005 |
| 9/18/2020 | <0.005 | 0.00091 (J) | | | | |
| 9/21/2020 | | | 0.00056 (J) | | | |
| 2/10/2021 | | | | 0.0014 (J) | | |
| 2/12/2021 | <0.005 | <0.005 | | | | |
| 2/16/2021 | | | | | <0.005 | 0.00067 (J) |
| 2/22/2021 | | | <0.005 | | | |
| 3/15/2021 | | | | 0.0021 (J) | 0.00082 (J) | |
| 3/16/2021 | <0.005 | <0.005 | | | | <0.005 |
| 3/17/2021 | | | <0.005 | | | |
| 8/16/2021 | | | | <0.005 | | |
| 8/17/2021 | | | | | | <0.005 |
| 8/18/2021 | <0.005 | <0.005 | | | <0.005 | |
| 8/19/2021 | | | <0.005 | | | |
| 2/9/2022 | <0.005 | <0.005 | | | | 0.0011 (J) |
| 2/10/2022 | | | <0.005 | <0.005 | <0.005 | |
| 8/3/2022 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 8/4/2022 | | | | | | <0.005 |
| 8/11/2022 | | | | <0.005 | | |

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|------------|---------|---------|------------|--------|------------|
| 1/26/2023 | 0.0012 (J) | <0.005 | <0.005 | | | 0.0013 (J) |
| 1/27/2023 | | | | 0.0014 (J) | | |
| 2/1/2023 | | | | | <0.005 | |

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|
| 3/13/2019 | | <0.005 | <0.005 | | <0.005 | <0.005 |
| 3/14/2019 | <0.005 | | | <0.005 | | |
| 4/2/2019 | | <0.005 | | | | |
| 4/3/2019 | <0.005 | | | <0.005 | <0.005 | |
| 4/4/2019 | | | | | | <0.005 |
| 4/8/2019 | | | <0.005 | | | |
| 9/25/2019 | | <0.005 | | | | |
| 9/26/2019 | | | 0.00042 (J) | | 0.00076 (J) | <0.005 |
| 9/27/2019 | <0.005 | | | <0.005 | | |
| 3/2/2020 | | 0.00071 (J) | | | | |
| 3/3/2020 | | | | <0.005 | | |
| 3/4/2020 | 0.00066 (J) | | <0.005 | | 0.0028 (J) | <0.005 |
| 3/26/2020 | 0.00047 (J) | | | 0.00061 (J) | | |
| 3/27/2020 | | 0.00051 (J) | | | | |
| 3/30/2020 | | | <0.005 | | | |
| 3/31/2020 | | | | | 0.001 (J) | |
| 4/2/2020 | | | | | | <0.005 |
| 9/17/2020 | | <0.005 | | | <0.005 | |
| 9/18/2020 | | | | <0.005 | | 0.0007 (J) |
| 9/21/2020 | 0.0014 (J) | | <0.005 | | | |
| 2/11/2021 | | <0.005 | | | | |
| 2/12/2021 | 0.00059 (J) | | | <0.005 | | |
| 2/16/2021 | | | <0.005 | | 0.001 (J) | 0.00082 (J) |
| 3/12/2021 | | | | | | <0.005 |
| 3/15/2021 | | 0.00068 (J) | | | | |
| 3/16/2021 | | | | <0.005 | | |
| 3/17/2021 | 0.0022 (J) | | 0.0017 (J) | | 0.0015 (J) | |
| 8/17/2021 | | <0.005 | | | <0.005 | <0.005 |
| 8/18/2021 | <0.005 | | | | | |
| 8/19/2021 | | | <0.005 | <0.005 | | |
| 2/9/2022 | <0.005 | | | <0.005 | <0.005 | |
| 2/10/2022 | | <0.005 | <0.005 | | | <0.005 |
| 8/3/2022 | | | <0.005 | | | <0.005 |
| 8/4/2022 | <0.005 | <0.005 | | <0.005 | <0.005 | |
| 1/26/2023 | 0.0011 (J) | <0.005 | <0.005 | 0.0012 (J) | <0.005 | |
| 1/27/2023 | | | | | | <0.005 |

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|-------------|-----------|------------|-------------|------------|
| 3/12/2019 | <0.005 | <0.005 | | | |
| 3/13/2019 | | | 0.003 (J) | <0.005 | <0.005 |
| 4/2/2019 | <0.005 | <0.005 | | | |
| 4/3/2019 | | | 0.003 (J) | <0.005 | 0.0023 (J) |
| 9/24/2019 | | <0.005 | | | |
| 9/25/2019 | | | 0.0052 (J) | | |
| 9/26/2019 | 0.00081 (J) | | | <0.005 | 0.0013 (J) |
| 3/2/2020 | | <0.005 | 0.0042 (J) | | |
| 3/3/2020 | | | | 0.00044 (J) | 0.0015 (J) |
| 3/4/2020 | 0.0027 (J) | | | | |
| 3/26/2020 | | | 0.0044 (J) | | |
| 3/27/2020 | <0.005 | | | 0.00059 (J) | |
| 3/30/2020 | | 0.001 (J) | | | 0.0021 (J) |
| 9/16/2020 | | <0.005 | | | |
| 9/17/2020 | | | 0.0021 (J) | | |
| 9/21/2020 | 0.00085 (J) | | | <0.005 | 0.0017 (J) |
| 2/10/2021 | 0.0014 (J) | | | | |
| 2/15/2021 | | <0.005 | | | 0.0015 (J) |
| 2/16/2021 | | | 0.0032 (J) | <0.005 | |
| 3/15/2021 | 0.00078 (J) | <0.005 | | | 0.0018 (J) |
| 3/16/2021 | | | 0.0024 (J) | <0.005 | |
| 8/16/2021 | | <0.005 | | | |
| 8/17/2021 | | | 0.0018 (J) | <0.005 | <0.005 |
| 8/18/2021 | <0.005 | | | | |
| 2/8/2022 | | | | | 0.0016 (J) |
| 2/9/2022 | | | 0.0031 (J) | <0.005 | |
| 2/10/2022 | 0.0011 (J) | <0.005 | | | |
| 8/3/2022 | | <0.005 | 0.0015 (J) | <0.005 | |
| 8/4/2022 | <0.005 | | | | 0.002 (J) |
| 1/26/2023 | <0.005 | <0.005 | 0.0032 (J) | 0.0014 (J) | 0.0017 (J) |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|------------|
| 5/19/2016 | <0.005 | 0.0293 | <0.005 | | | |
| 5/23/2016 | | | | | | <0.005 |
| 7/11/2016 | 0.0004 (J) | 0.0267 | | | | |
| 7/12/2016 | | | <0.005 | | | 0.0006 (J) |
| 8/30/2016 | <0.005 | 0.028 | <0.005 | | | |
| 9/1/2016 | | | | | | 0.0007 (J) |
| 10/19/2016 | <0.005 | 0.0201 | <0.005 | | | |
| 10/24/2016 | | | | | | 0.0009 (J) |
| 12/6/2016 | <0.005 | 0.0184 | <0.005 | | | |
| 12/7/2016 | | | | | | 0.0012 (J) |
| 1/24/2017 | <0.005 | 0.0206 | <0.005 | | | |
| 1/26/2017 | | | | | | <0.005 |
| 3/21/2017 | <0.005 | 0.0251 | <0.005 | | | |
| 3/22/2017 | | | | | | 0.0006 (J) |
| 5/22/2017 | <0.005 | 0.0263 | <0.005 | | | |
| 5/24/2017 | | | | | | 0.0006 (J) |
| 4/2/2018 | <0.005 | 0.019 | | | | |
| 4/3/2018 | | | <0.005 | | | |
| 4/4/2018 | | | | | | <0.005 |
| 3/12/2019 | <0.005 | 0.017 | <0.005 | | | |
| 3/13/2019 | | | | | | <0.005 |
| 4/1/2019 | | | <0.005 | | | |
| 4/2/2019 | <0.005 | 0.019 | | | | |
| 4/3/2019 | | | | | | <0.005 |
| 9/23/2019 | <0.005 | 0.038 | <0.005 | | | |
| 9/27/2019 | | | | | | <0.005 |
| 3/2/2020 | <0.005 | 0.019 | <0.005 | | | |
| 3/3/2020 | | | | | | <0.005 |
| 3/25/2020 | <0.005 | 0.02 | <0.005 | | | |
| 4/1/2020 | | | | | | <0.005 |
| 9/15/2020 | <0.005 | 0.021 | <0.005 | | | |
| 9/16/2020 | | | | <0.005 | <0.005 | <0.005 |
| 11/10/2020 | | | | <0.005 | <0.005 | |
| 12/15/2020 | | | | <0.005 | <0.005 | |
| 1/19/2021 | | | | <0.005 | <0.005 | |
| 2/8/2021 | <0.005 | | | | | |
| 2/9/2021 | | 0.02 | <0.005 | <0.005 | <0.005 | |
| 2/15/2021 | | | | | | <0.005 |
| 3/10/2021 | <0.005 | | | | <0.005 | |
| 3/11/2021 | | 0.013 | <0.005 | <0.005 | | |
| 3/12/2021 | | | | | | <0.005 |
| 8/11/2021 | <0.005 | | | <0.005 | | |
| 8/12/2021 | | 0.022 | <0.005 | | | |
| 8/13/2021 | | | | | <0.005 | |
| 8/17/2021 | | | | | | <0.005 |
| 2/1/2022 | <0.005 | 0.025 | <0.005 | <0.005 | <0.005 | |
| 2/9/2022 | | | | | | <0.005 |
| 8/2/2022 | 0.00054 (J) | 0.024 | <0.005 | <0.005 | <0.005 | |
| 8/3/2022 | | | | | | <0.005 |
| 1/23/2023 | | | <0.005 | | | |
| 1/24/2023 | <0.005 | 0.024 | | <0.005 | <0.005 | |
| 1/27/2023 | | | | | | <0.005 |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-------------|------------|-------------|-------------|-------------|-------------|
| 5/20/2016 | | | | <0.005 | 0.00207 (J) | |
| 5/23/2016 | <0.005 | <0.005 | 0.00361 (J) | | | <0.005 |
| 7/12/2016 | 0.0021 (J) | 0.0018 (J) | 0.0032 (J) | 0.0003 (J) | 0.0019 (J) | 0.0006 (J) |
| 9/1/2016 | 0.0025 (J) | 0.0016 (J) | 0.0033 (J) | <0.005 | 0.0023 (J) | 0.0007 (J) |
| 10/20/2016 | | | | 0.0008 (J) | 0.002 (J) | 0.002 (J) |
| 10/24/2016 | 0.0032 (J) | 0.0017 (J) | 0.004 (J) | | | |
| 12/6/2016 | | | | 0.0009 (J) | 0.0026 (J) | 0.0011 (J) |
| 12/7/2016 | 0.003 (J) | 0.0021 (J) | 0.0034 (J) | | | |
| 1/25/2017 | | | | 0.0005 (J) | 0.002 (J) | |
| 1/26/2017 | 0.0014 (J) | 0.0016 (J) | 0.0024 (J) | | | 0.0006 (J) |
| 3/21/2017 | | | | 0.0005 (J) | 0.0023 (J) | |
| 3/22/2017 | 0.0014 (J) | 0.0018 (J) | 0.0026 (J) | | | 0.0005 (J) |
| 5/23/2017 | | | | 0.0005 (J) | 0.0023 (J) | 0.0006 (J) |
| 5/24/2017 | 0.0008 (J) | 0.0015 (J) | 0.0022 (J) | | | |
| 4/3/2018 | | | | <0.005 | <0.005 | <0.005 |
| 4/4/2018 | <0.005 | <0.005 | <0.005 | | | |
| 3/12/2019 | | | | | 0.002 (J) | |
| 3/13/2019 | 0.00098 (J) | | 0.0022 (J) | 0.00067 (J) | | 0.00065 (J) |
| 3/14/2019 | | 0.0011 (J) | | | | |
| 4/2/2019 | | | | 0.00069 (J) | | |
| 4/3/2019 | 0.0018 (J) | 0.0011 (J) | | | 0.0019 (J) | 0.00069 (J) |
| 4/5/2019 | | | 0.0017 (J) | | | |
| 9/24/2019 | | | | | 0.0015 (J) | |
| 9/25/2019 | | | | 0.0026 (J) | | |
| 9/26/2019 | | | 0.0042 (J) | | | |
| 9/27/2019 | 0.00071 (J) | 0.0012 (J) | | | | 0.00057 (J) |
| 3/3/2020 | 0.00087 (J) | 0.0013 (J) | | | 0.002 (J) | |
| 3/4/2020 | | | 0.0066 | 0.0011 (J) | | 0.00053 (J) |
| 3/26/2020 | | 0.0012 (J) | | | | |
| 3/27/2020 | | | | 0.00074 (J) | 0.0018 (J) | |
| 3/30/2020 | | | 0.0053 | | | |
| 3/31/2020 | 0.0014 (J) | | | | | 0.00051 (J) |
| 9/16/2020 | | | | 0.00065 (J) | 0.0019 (J) | |
| 9/17/2020 | | | | | | 0.0007 (J) |
| 9/18/2020 | <0.005 | 0.0014 (J) | | | | |
| 9/21/2020 | | | 0.0032 (J) | | | |
| 2/10/2021 | | | | 0.00081 (J) | | |
| 2/12/2021 | <0.005 | 0.0012 (J) | | | | |
| 2/16/2021 | | | | | 0.002 (J) | 0.00061 (J) |
| 2/22/2021 | | | 0.003 (J) | | | |
| 3/15/2021 | | | | 0.0014 (J) | 0.0019 (J) | |
| 3/16/2021 | <0.005 | 0.0012 (J) | | | | 0.00069 (J) |
| 3/17/2021 | | | 0.0029 (J) | | | |
| 8/16/2021 | | | | 0.0012 (J) | | |
| 8/17/2021 | | | | | | 0.00045 (J) |
| 8/18/2021 | <0.005 | 0.0012 (J) | | | 0.002 (J) | |
| 8/19/2021 | | | 0.0024 (J) | | | |
| 2/9/2022 | <0.005 | 0.0013 (J) | | | | 0.00051 (J) |
| 2/10/2022 | | | 0.0026 (J) | 0.0011 (J) | 0.0021 (J) | |
| 8/3/2022 | <0.005 | 0.0012 (J) | 0.0041 (J) | 0.0015 (J) | 0.0024 (J) | |
| 8/4/2022 | | | | | | 0.00046 (J) |
| 8/11/2022 | | | | 0.0018 (J) | | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|------------|---------|-------------|--------|-------------|
| 1/26/2023 | <0.005 | 0.0012 (J) | 0.012 | | | 0.00068 (J) |
| 1/27/2023 | | | | 0.00067 (J) | | |
| 2/1/2023 | | | | | <0.005 | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------|------------|-------------|--------|-------------|-------------|
| 3/13/2019 | | 0.0011 (J) | <0.005 | | <0.005 | <0.005 |
| 3/14/2019 | 0.025 | | | <0.005 | | |
| 4/2/2019 | | <0.005 | | | | |
| 4/3/2019 | 0.036 | | | <0.005 | <0.005 | |
| 4/4/2019 | | | | | | 9.1E-05 (J) |
| 4/8/2019 | | | 0.00025 (J) | | | |
| 9/25/2019 | | <0.005 | | | | |
| 9/26/2019 | | | 0.0011 (J) | | 0.00053 (J) | <0.005 |
| 9/27/2019 | 0.033 | | | <0.005 | | |
| 3/2/2020 | | <0.005 | | | | |
| 3/3/2020 | | | | <0.005 | | |
| 3/4/2020 | 0.048 | | 0.00056 (J) | | <0.005 | 0.00045 (J) |
| 3/26/2020 | 0.045 | | | <0.005 | | |
| 3/27/2020 | | <0.005 | | | | |
| 3/30/2020 | | | <0.005 | | | |
| 3/31/2020 | | | | | 0.0003 (J) | |
| 4/2/2020 | | | | | | <0.005 |
| 9/17/2020 | | <0.005 | | | <0.005 | |
| 9/18/2020 | | | | <0.005 | | <0.005 |
| 9/21/2020 | 0.032 | | <0.005 | | | |
| 2/11/2021 | | <0.005 | | | | |
| 2/12/2021 | 0.037 | | | <0.005 | | |
| 2/16/2021 | | | <0.005 | | 0.00045 (J) | 0.0004 (J) |
| 3/12/2021 | | | | | | <0.005 |
| 3/15/2021 | | <0.005 | | | | |
| 3/16/2021 | | | | <0.005 | | |
| 3/17/2021 | 0.037 | | <0.005 | | 0.00044 (J) | |
| 8/17/2021 | | <0.005 | | | 0.00045 (J) | <0.005 |
| 8/18/2021 | 0.039 | | | | | |
| 8/19/2021 | | | <0.005 | <0.005 | | |
| 2/9/2022 | 0.03 | | | <0.005 | 0.00059 (J) | |
| 2/10/2022 | | <0.005 | <0.005 | | | <0.005 |
| 8/3/2022 | | | <0.005 | | | <0.005 |
| 8/4/2022 | 0.043 | <0.005 | | <0.005 | 0.00048 (J) | |
| 1/26/2023 | 0.022 | <0.005 | <0.005 | <0.005 | 0.00051 (J) | |
| 1/27/2023 | | | | | | <0.005 |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|-------------|-------------|--------|-------------|--------|
| 3/12/2019 | <0.005 | 0.00057 (J) | | | |
| 3/13/2019 | | | <0.005 | 0.00055 (J) | <0.005 |
| 4/2/2019 | <0.005 | 0.00084 (J) | | | |
| 4/3/2019 | | | <0.005 | <0.005 | <0.005 |
| 9/24/2019 | | 0.0015 (J) | | | |
| 9/25/2019 | | | <0.005 | | |
| 9/26/2019 | <0.005 | | | 0.00036 (J) | <0.005 |
| 3/2/2020 | | 0.00067 (J) | <0.005 | | |
| 3/3/2020 | | | | 0.00094 (J) | <0.005 |
| 3/4/2020 | 0.00093 (J) | | | | |
| 3/26/2020 | | | <0.005 | | |
| 3/27/2020 | <0.005 | | | 0.00059 (J) | |
| 3/30/2020 | | 0.00063 (J) | | | <0.005 |
| 9/16/2020 | | 0.0013 (J) | | | |
| 9/17/2020 | | | <0.005 | | |
| 9/21/2020 | <0.005 | | | 0.00041 (J) | <0.005 |
| 2/10/2021 | <0.005 | | | | |
| 2/15/2021 | | 0.00097 (J) | | | <0.005 |
| 2/16/2021 | | | <0.005 | 0.00045 (J) | |
| 3/15/2021 | <0.005 | 0.0011 (J) | | | <0.005 |
| 3/16/2021 | | | <0.005 | 0.00042 (J) | |
| 8/16/2021 | | 0.0014 (J) | | | |
| 8/17/2021 | | | <0.005 | <0.005 | <0.005 |
| 8/18/2021 | <0.005 | | | | |
| 2/8/2022 | | | | | <0.005 |
| 2/9/2022 | | | <0.005 | 0.00059 (J) | |
| 2/10/2022 | <0.005 | 0.00089 (J) | | | |
| 8/3/2022 | | 0.0012 (J) | <0.005 | 0.00041 (J) | |
| 8/4/2022 | <0.005 | | | | <0.005 |
| 1/26/2023 | <0.005 | 0.00056 (J) | <0.005 | 0.00044 (J) | <0.005 |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/14/2023 12:20 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|-----------|
| 5/19/2016 | 0.397 (U) | 0.627 (U) | 0.342 (U) | | | |
| 5/23/2016 | | | | | | 0.419 (U) |
| 7/11/2016 | 0.738 (U) | 1.38 | | | | |
| 7/12/2016 | | | 0.499 (U) | | | 0.855 |
| 8/30/2016 | 0.581 (U) | 1.05 (U) | 0.976 (U) | | | |
| 9/1/2016 | | | | | | 0.844 (U) |
| 10/19/2016 | 0.213 (U) | 1.11 (U) | 0.626 (U) | | | |
| 10/24/2016 | | | | | | 0.917 (U) |
| 12/6/2016 | 0.444 (U) | 0.741 (U) | 0.805 (U) | | | |
| 12/7/2016 | | | | | | 0.558 (U) |
| 1/24/2017 | 0.373 (U) | 0.908 (U) | 0.336 (U) | | | |
| 1/26/2017 | | | | | | 0.922 (U) |
| 3/21/2017 | 0.816 (U) | 0.567 (U) | 0.358 (U) | | | |
| 3/22/2017 | | | | | | 0.751 (U) |
| 5/22/2017 | 0.554 (U) | 0.638 (U) | 0.744 (U) | | | |
| 5/24/2017 | | | | | | 0.725 (U) |
| 4/2/2018 | 0.405 (U) | 0.761 (U) | | | | |
| 4/3/2018 | | | 0.684 (U) | | | |
| 4/4/2018 | | | | | | 0.715 (U) |
| 6/4/2018 | 1.13 (U) | 0.975 (U) | 0.0291 (U) | | | |
| 6/5/2018 | | | | | | 0.718 (U) |
| 10/1/2018 | 0.132 (U) | 0.434 (U) | 0.781 (U) | | | |
| 10/2/2018 | | | | | | 0.948 |
| 3/12/2019 | 0.327 (U) | 0.454 (U) | 1.01 (U) | | | |
| 3/13/2019 | | | | | | 1.19 (U) |
| 4/1/2019 | | | 0.76 (U) | | | |
| 4/2/2019 | 0.739 (U) | 0.651 (U) | | | | |
| 4/3/2019 | | | | | | 1.82 (U) |
| 9/27/2019 | | | | | | 1.16 (U) |
| 9/30/2019 | 0.306 (U) | 1.04 (U) | 0.384 (U) | | | |
| 3/2/2020 | 0.61 (U) | 1.58 | 0.249 (U) | | | |
| 3/3/2020 | | | | | | 0.667 (U) |
| 3/25/2020 | 4.36 | 0.621 (U) | 0.833 (U) | | | |
| 4/1/2020 | | | | | | 0.235 (U) |
| 9/15/2020 | 0.748 (U) | 0.124 (U) | 0.161 (U) | | | |
| 9/16/2020 | | | | 0.531 (U) | 0.422 (U) | 0 (U) |
| 11/10/2020 | | | | 0.788 (U) | 0.293 (U) | |
| 12/15/2020 | | | | 1.04 (U) | 0.7 (U) | |
| 1/19/2021 | | | | 0.685 (U) | 0.79 (U) | |
| 2/8/2021 | 0.223 (U) | | | | | |
| 2/9/2021 | | 0.721 (U) | 0.447 (U) | 0.138 (U) | 0.486 (U) | |
| 2/15/2021 | | | | | | 1.91 |
| 3/10/2021 | 0 (U) | | | | 0.811 (U) | |
| 3/11/2021 | | 0.737 (U) | 0.128 (U) | 1.51 (U) | | |
| 3/12/2021 | | | | | | 1.12 (U) |
| 8/11/2021 | 0.115 (U) | | | 0.394 (U) | | |
| 8/12/2021 | | 0.746 (U) | 0.389 (U) | | | |
| 8/13/2021 | | | | | 1.2 | |
| 8/17/2021 | | | | | | 0.595 (U) |
| 2/1/2022 | 0.143 (U) | 0.588 (U) | 0.266 (U) | 1.12 | 0.665 (U) | |
| 2/9/2022 | | | | | | 0.49 (U) |
| 8/2/2022 | 0.203 (U) | 0.861 (U) | 0.4 (U) | 0.662 (U) | 0.952 (U) | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|-----------|
| 8/3/2022 | | | | | | 0.454 (U) |
| 1/23/2023 | | | 0.311 (U) | | | |
| 1/24/2023 | 0.549 (U) | 0.829 (U) | | 1.25 | 0.421 (U) | |
| 1/27/2023 | | | | | | 1.2 |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/14/2023 12:20 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 5/20/2016 | | | | 0.62 (U) | 0.56 (U) | |
| 5/23/2016 | 0.509 (U) | 1.12 | 0.625 (U) | | | 0.826 (U) |
| 7/12/2016 | 0.784 (U) | 1.61 | 0.478 (U) | 0.283 (U) | 0.636 (U) | 0.511 (U) |
| 9/1/2016 | 0.261 (U) | 1.23 | 0.595 (U) | 0.703 (U) | 0.818 (U) | 0.762 (U) |
| 10/20/2016 | | | | 1.97 | 1.04 (U) | 1.17 |
| 10/24/2016 | 1.42 | 1.98 | 1.54 | | | |
| 12/6/2016 | | | | 2 | 0.771 (U) | 0.126 (U) |
| 12/7/2016 | 0.781 (U) | 0.319 (U) | 0.657 (U) | | | |
| 1/25/2017 | | | | 1.06 (U) | 0.859 (U) | |
| 1/26/2017 | 0.842 (U) | 0.54 (U) | 1.22 | | | 0.515 (U) |
| 3/21/2017 | | | | 0.668 (U) | 0.851 (U) | |
| 3/22/2017 | 0.318 (U) | 0.635 (U) | 0.285 (U) | | | 0.451 (U) |
| 5/23/2017 | | | | 0.621 (U) | 0.705 (U) | 0.924 (U) |
| 5/24/2017 | 0.687 (U) | 1.01 | 0.655 (U) | | | |
| 4/3/2018 | | | | 0.538 (U) | 0.311 (U) | 0.732 (U) |
| 4/4/2018 | 1.5 | 0.956 | 0.882 (U) | | | |
| 6/5/2018 | 0.549 (U) | | 1.1 (U) | 0.985 (U) | | |
| 6/6/2018 | | 0.424 (U) | | | 0.896 (U) | 0.813 (U) |
| 10/2/2018 | | | | 0.837 (U) | 1.21 | 0.61 (U) |
| 10/3/2018 | 1.48 | 0.57 (U) | | | | |
| 10/5/2018 | | | 0.558 (U) | | | |
| 3/12/2019 | | | | | 0.544 (U) | |
| 3/13/2019 | 0.584 (U) | | 0.39 (U) | 0.403 (U) | | 1 (U) |
| 3/14/2019 | | 0.992 (U) | | | | |
| 4/2/2019 | | | | 0.865 (U) | | |
| 4/3/2019 | 0.36 (U) | 0.734 (U) | | | 0.885 (U) | 0.156 (U) |
| 4/5/2019 | | | 0.422 (U) | | | |
| 9/24/2019 | | | | | 1.3 | |
| 9/25/2019 | | | | 0.884 (U) | | |
| 9/26/2019 | | | 0.939 (U) | | | |
| 9/27/2019 | 1.78 | 0.958 (U) | | | | 0.428 (U) |
| 3/3/2020 | 0.716 (U) | 0.971 (U) | | | 0.835 (U) | |
| 3/4/2020 | | | 0.708 (U) | 0.624 (U) | | 1.03 |
| 3/26/2020 | | 0.209 (U) | | | | |
| 3/27/2020 | | | | 0.485 (U) | 1.04 (U) | |
| 3/30/2020 | | | 0.602 (U) | | | |
| 3/31/2020 | 1.3 (U) | | | | | 1.2 (U) |
| 9/16/2020 | | | | 0.135 (U) | 0.526 (U) | |
| 9/17/2020 | | | | | | 1.38 (U) |
| 9/18/2020 | 1.24 (U) | 0.916 (U) | | | | |
| 9/21/2020 | | | 1.53 | | | |
| 2/10/2021 | | | | 0.281 (U) | | |
| 2/12/2021 | 1.1 | 0.236 (U) | | | | |
| 2/16/2021 | | | | | 0.764 (U) | 1.17 (U) |
| 2/22/2021 | | | 1.02 | | | |
| 3/15/2021 | | | | 0.666 (U) | 1.3 (U) | |
| 3/16/2021 | 1.71 | 0.245 (U) | | | | 0.446 (U) |
| 3/17/2021 | | | 1.45 (U) | | | |
| 8/16/2021 | | | | 0.143 (U) | | |
| 8/17/2021 | | | | | | 0.771 (U) |
| 8/18/2021 | 0.919 (U) | 0.919 (U) | | | 1.02 (U) | |
| 8/19/2021 | | | 0.764 (U) | | | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 2/9/2022 | 0.444 (U) | 0.564 (U) | | | | 0.198 (U) |
| 2/10/2022 | | | 0.442 (U) | 0.175 (U) | 0.945 (U) | |
| 8/3/2022 | 0.823 (U) | 0.418 (U) | 0.54 (U) | 0.42 (U) | 0.455 (U) | |
| 8/4/2022 | | | | | | 0.597 (U) |
| 8/11/2022 | | | | 0.461 (U) | | |
| 1/26/2023 | 0.441 (U) | 0.877 | 0.719 | | | 0.516 (U) |
| 1/27/2023 | | | | 0.45 (U) | | |
| 2/1/2023 | | | | | 0.241 (U) | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/14/2023 12:20 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-----------|-----------|------------|-----------|------------|-----------|
| 3/13/2019 | | 0.538 (U) | 0.311 (U) | | 0.627 (U) | 1.81 |
| 3/14/2019 | 0.347 (U) | | | 1.28 (U) | | |
| 4/2/2019 | | 1.02 (U) | | | | |
| 4/3/2019 | 0.884 (U) | | | 0.662 (U) | 0.205 (U) | |
| 4/4/2019 | | | | | | 1.33 |
| 4/8/2019 | | | 0.573 (U) | | | |
| 9/25/2019 | | 1.35 (U) | | | | |
| 9/26/2019 | | | 0.878 (U) | | 0.912 (U) | 0.974 (U) |
| 9/27/2019 | 0.534 (U) | | | 0.945 (U) | | |
| 3/2/2020 | | 0.653 (U) | | | | |
| 3/3/2020 | | | | 1.36 | | |
| 3/4/2020 | 1.04 | | 0.333 (U) | | 1.27 (U) | 1.12 |
| 3/26/2020 | 1.1 (U) | | | 0.793 (U) | | |
| 3/27/2020 | | 0.1 (U) | | | | |
| 3/30/2020 | | | 0.107 (U) | | | |
| 3/31/2020 | | | | | 1.65 | |
| 4/2/2020 | | | | | | 2.48 |
| 9/17/2020 | | 0.469 (U) | | | 0.42 (U) | |
| 9/18/2020 | | | | 1.17 (U) | | 1.13 (U) |
| 9/21/2020 | 1.36 (U) | | 1.23 (U) | | | |
| 2/11/2021 | | 0.334 (U) | | | | |
| 2/12/2021 | 0.764 (U) | | | 1.17 | | |
| 2/16/2021 | | | 0.156 (U) | | 0.505 (U) | 1.21 |
| 3/12/2021 | | | | | | 0.649 (U) |
| 3/15/2021 | | 1.24 (U) | | | | |
| 3/16/2021 | | | | 0.742 (U) | | |
| 3/17/2021 | 0.466 (U) | | 0.174 (U) | | 0.165 (U) | |
| 8/17/2021 | | 0.709 (U) | | | 0.0468 (U) | 1.06 (U) |
| 8/18/2021 | 0.642 (U) | | | | | |
| 8/19/2021 | | | 0.227 (U) | 0.935 (U) | | |
| 2/9/2022 | 0.245 (U) | | | 0.754 (U) | 0.0677 (U) | |
| 2/10/2022 | | 0.32 (U) | 0.178 (U) | | | 0.809 (U) |
| 8/3/2022 | | | 0.263 (U) | | | 0.685 (U) |
| 8/4/2022 | 0.509 (U) | 1.05 (U) | | 1.65 | 0.0273 (U) | |
| 1/26/2023 | 0.333 (U) | 0.561 (U) | 0.0906 (U) | 1.1 | 0.386 (U) | |
| 1/27/2023 | | | | | | 1.1 |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/14/2023 12:20 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 3/12/2019 | 0.926 (U) | 1.37 | | | |
| 3/13/2019 | | | 0.621 (U) | 2.07 | 1.23 |
| 4/2/2019 | 0.479 (U) | 0.62 (U) | | | |
| 4/3/2019 | | | 0.932 (U) | 0.872 (U) | 1.05 (U) |
| 9/24/2019 | | 0.675 (U) | | | |
| 9/25/2019 | | | 0.798 (U) | | |
| 9/26/2019 | 0.997 (U) | | | 0.745 (U) | 0.947 (U) |
| 3/2/2020 | | 0.413 (U) | 0.964 (U) | | |
| 3/3/2020 | | | | 0.757 (U) | 1.15 |
| 3/4/2020 | 1.31 | | | | |
| 3/26/2020 | | | 1.1 | | |
| 3/27/2020 | 1.59 | | | 0.758 (U) | |
| 3/30/2020 | | 0.885 (U) | | | 0.83 (U) |
| 9/16/2020 | | 0.193 (U) | | | |
| 9/17/2020 | | | 0.618 (U) | | |
| 9/21/2020 | 1.39 (U) | | | 0.796 (U) | 1.55 (U) |
| 2/10/2021 | 0.201 (U) | | | | |
| 2/15/2021 | | 1.17 (U) | | | 0.892 (U) |
| 2/16/2021 | | | 0.466 (U) | 0.198 (U) | |
| 3/15/2021 | 0.564 (U) | 0.436 (U) | | | 0.386 (U) |
| 3/16/2021 | | | 1.22 | 0.727 (U) | |
| 8/16/2021 | | 0.208 (U) | | | |
| 8/17/2021 | | | 0.304 (U) | 0.557 (U) | 0.183 (U) |
| 8/18/2021 | 0.876 (U) | | | | |
| 2/8/2022 | | | | | 0.417 (U) |
| 2/9/2022 | | | 0.567 (U) | 0.619 (U) | |
| 2/10/2022 | 1.96 (U) | 0.594 (U) | | | |
| 8/3/2022 | | 0.581 (U) | 0.63 (U) | 0.543 (U) | |
| 8/4/2022 | 0.84 (U) | | | | 1.18 (U) |
| 1/26/2023 | 0.821 | 0.793 (U) | 0.909 | 0.493 (U) | 0.318 (U) |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/14/2023 12:20 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|------------|
| 5/19/2016 | 0.105 (J) | 0.0303 (J) | 0.0513 (J) | | | |
| 5/23/2016 | | | | | | 0.0394 (J) |
| 7/11/2016 | 0.16 (J) | 0.05 (J) | | | | |
| 7/12/2016 | | | 0.12 (J) | | | 0.15 (J) |
| 8/30/2016 | 0.09 (J) | 0.06 (J) | 0.09 (J) | | | |
| 9/1/2016 | | | | | | 0.5 |
| 10/19/2016 | 0.1 (J) | 0.04 (J) | 0.1 (J) | | | |
| 10/24/2016 | | | | | | 0.06 (J) |
| 12/6/2016 | 0.11 (J) | 0.36 | 0.21 (J) | | | |
| 12/7/2016 | | | | | | 0.44 |
| 1/24/2017 | 0.09 (J) | <0.1 | 0.06 (J) | | | |
| 1/26/2017 | | | | | | 0.29 (J) |
| 3/21/2017 | 0.13 (J) | <0.1 | 0.005 (J) | | | |
| 3/22/2017 | | | | | | 0.34 |
| 5/22/2017 | 0.12 (J) | <0.1 | 0.05 (J) | | | |
| 5/24/2017 | | | | | | 0.13 (J) |
| 10/3/2017 | 0.13 (J) | <0.1 | 0.13 (J) | | | 0.46 |
| 4/2/2018 | <0.3 | <0.1 | | | | |
| 4/3/2018 | | | <0.1 | | | |
| 4/4/2018 | | | | | | <0.1 |
| 6/4/2018 | 0.074 (J) | <0.1 | <0.1 | | | |
| 6/5/2018 | | | | | | <0.1 |
| 10/1/2018 | <0.3 | <0.1 | <0.1 | | | |
| 10/2/2018 | | | | | | 0.17 (J) |
| 3/12/2019 | 0.29 (J) | 0.038 (J) | 0.072 (J) | | | |
| 3/13/2019 | | | | | | 0.17 (J) |
| 4/1/2019 | | | 0.029 (J) | | | |
| 4/2/2019 | 0.1 (J) | 0.071 (J) | | | | |
| 4/3/2019 | | | | | | 0.082 (J) |
| 9/23/2019 | 0.078 (J) | <0.1 | <0.1 | | | |
| 9/27/2019 | | | | | | 0.17 (J) |
| 3/2/2020 | 0.076 (J) | <0.1 | <0.1 | | | |
| 3/3/2020 | | | | | | 0.11 (J) |
| 3/25/2020 | 0.098 (J) | <0.1 | <0.1 | | | |
| 4/1/2020 | | | | | | 0.12 (J) |
| 6/16/2020 | 0.071 (J) | | <0.1 | | | |
| 9/15/2020 | 0.082 (J) | <0.1 | <0.1 | | | |
| 9/16/2020 | | | | 0.22 | 0.52 | <0.1 |
| 11/10/2020 | | | | 0.19 | 0.59 | |
| 12/15/2020 | | | | 0.21 | 0.67 | |
| 1/19/2021 | | | | 0.16 | 0.74 | |
| 2/8/2021 | 0.078 (J) | | | | | |
| 2/9/2021 | | <0.1 | 0.074 (J) | 0.19 | 0.44 | |
| 2/15/2021 | | | | | | 0.08 (J) |
| 3/10/2021 | 0.079 (J) | | | | 0.65 | |
| 3/11/2021 | | 0.1 | <0.1 | 0.2 | | |
| 3/12/2021 | | | | | | 0.054 (J) |
| 8/11/2021 | 0.058 (J) | | | 0.15 | | |
| 8/12/2021 | | <0.1 | <0.1 | | | |
| 8/13/2021 | | | | | 0.87 | |
| 8/17/2021 | | | | | | <0.1 |
| 2/1/2022 | 0.064 (J) | <0.1 | <0.1 | 0.19 | 0.96 | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|---------|
| 2/9/2022 | | | | | | 0.12 |
| 8/2/2022 | 0.09 (J) | 0.053 (J) | 0.067 (J) | 0.22 | 0.8 | |
| 8/3/2022 | | | | | | 0.13 |
| 1/23/2023 | | | 0.061 (J) | | | |
| 1/24/2023 | 0.089 (J) | 0.053 (J) | | 0.23 | 1.3 | |
| 1/27/2023 | | | | | | 0.16 |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-----------|-----------|------------|------------|--------|-----------|
| 5/20/2016 | | | | 0.0828 (J) | 0.499 | |
| 5/23/2016 | 0.203 (J) | 0.212 (J) | 0.2587 (J) | | | <0.3 |
| 7/12/2016 | 0.44 | 0.31 | 0.53 | 0.2 (J) | 0.67 | 0.24 (J) |
| 9/1/2016 | 0.67 | 0.62 | 0.74 | 0.51 | 0.94 | 0.46 |
| 10/20/2016 | | | | 0.4 | 0.56 | 0.56 |
| 10/24/2016 | 0.26 (J) | 0.19 (J) | 0.31 | | | |
| 12/6/2016 | | | | 0.26 (J) | 0.76 | 0.31 |
| 12/7/2016 | 0.55 | 0.73 | 1 | | | |
| 1/25/2017 | | | | 0.24 (J) | 1.1 | |
| 1/26/2017 | 0.27 (J) | 0.12 (J) | 0.68 | | | 0.004 (J) |
| 3/21/2017 | | | | 0.13 (J) | 0.46 | |
| 3/22/2017 | 0.66 | 0.44 | 0.76 | | | 0.28 (J) |
| 5/23/2017 | | | | 0.11 (J) | 0.65 | 0.29 (J) |
| 5/24/2017 | 0.35 | 0.34 | 0.54 | | | |
| 10/3/2017 | 0.56 | 0.58 | 0.83 | 0.17 (J) | 0.66 | 0.53 |
| 4/3/2018 | | | | <0.3 | 0.39 | <0.3 |
| 4/4/2018 | 0.39 | <0.3 | 0.65 | | | |
| 6/5/2018 | 0.24 (J) | | 0.47 | 0.099 (J) | | |
| 6/6/2018 | | 0.21 (J) | | | 0.46 | 0.12 (J) |
| 10/2/2018 | | | | <0.3 | 0.51 | 0.031 (J) |
| 10/3/2018 | 0.31 | 0.15 (J) | | | | |
| 10/5/2018 | | | 0.77 | | | |
| 3/12/2019 | | | | | 0.58 | |
| 3/13/2019 | 0.51 | | 0.78 | 0.12 (J) | | 0.14 (J) |
| 3/14/2019 | | 1.1 | | | | |
| 4/2/2019 | | | | 0.097 (J) | | |
| 4/3/2019 | 0.43 | 0.3 (J) | | | 0.63 | 0.14 (J) |
| 4/5/2019 | | | 0.83 | | | |
| 9/24/2019 | | | | | 0.49 | |
| 9/25/2019 | | | | 0.1 (J) | | |
| 9/26/2019 | | | 0.64 | | | |
| 9/27/2019 | 0.42 | 0.26 (J) | | | | 0.26 (J) |
| 3/3/2020 | 0.24 (J) | 0.21 (J) | | | 0.45 | |
| 3/4/2020 | | | 0.37 | 0.077 (J) | | 0.08 (J) |
| 3/26/2020 | | 0.17 (J) | | | | |
| 3/27/2020 | | | | 0.059 (J) | 0.46 | |
| 3/30/2020 | | | 0.44 | | | |
| 3/31/2020 | 0.19 (J) | | | | | 0.074 (J) |
| 6/16/2020 | | | | | 0.45 | |
| 6/17/2020 | | | | 0.077 (J) | | |
| 9/16/2020 | | | | 0.081 (J) | 0.53 | |
| 9/17/2020 | | | | | | 0.1 |
| 9/18/2020 | 0.15 | 0.15 | | | | |
| 9/21/2020 | | | 0.44 | | | |
| 2/10/2021 | | | | 0.085 (J) | | |
| 2/12/2021 | 0.17 | 0.19 | | | | |
| 2/16/2021 | | | | | 0.47 | 0.096 (J) |
| 2/22/2021 | | | 0.55 | | | |
| 3/15/2021 | | | | 0.086 (J) | 0.51 | |
| 3/16/2021 | 0.21 | 0.2 | | | | 0.098 (J) |
| 3/17/2021 | | | 0.65 | | | |
| 8/16/2021 | | | | 0.084 (J) | | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|---------|---------|-----------|--------|-----------|
| 8/17/2021 | | | | | | 0.095 (J) |
| 8/18/2021 | 0.21 | 0.15 | | | 0.41 | |
| 8/19/2021 | | | 0.53 | | | |
| 2/9/2022 | 0.2 | 0.2 | | | | 0.1 |
| 2/10/2022 | | | 0.53 | 0.083 (J) | 0.42 | |
| 8/3/2022 | 0.22 | 0.21 | 0.55 | 0.11 | 0.44 | |
| 8/4/2022 | | | | | | 0.13 |
| 8/11/2022 | | | | 0.11 | | |
| 1/26/2023 | 0.2 | 0.21 | 0.4 | | | 0.11 |
| 1/27/2023 | | | | 0.1 | | |
| 2/1/2023 | | | | | 0.4 | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-----------|-----------|-----------|--------|-----------|----------|
| 3/13/2019 | | 0.072 (J) | 0.074 (J) | | 0.052 (J) | 0.28 (J) |
| 3/14/2019 | 0.35 | | | 2.2 | | |
| 4/2/2019 | | <0.1 | | | | |
| 4/3/2019 | 0.19 (J) | | | 1.6 | 0.044 (J) | |
| 4/4/2019 | | | | | | 0.26 (J) |
| 4/8/2019 | | | 0.048 (J) | | | |
| 9/25/2019 | | <0.1 | | | | |
| 9/26/2019 | | | 0.18 (J) | | 0.19 (J) | 0.42 |
| 9/27/2019 | 0.53 | | | 1.5 | | |
| 3/2/2020 | | <0.1 | | | | |
| 3/3/2020 | | | | 1.4 | | |
| 3/4/2020 | 0.096 (J) | | 0.051 (J) | | 0.052 (J) | 0.25 (J) |
| 3/26/2020 | 0.12 (J) | | | 1.6 | | |
| 3/27/2020 | | <0.1 | | | | |
| 3/30/2020 | | | 0.064 (J) | | | |
| 3/31/2020 | | | | | <0.3 | |
| 4/2/2020 | | | | | | 0.24 (J) |
| 9/17/2020 | | <0.1 | | | 0.069 (J) | |
| 9/18/2020 | | | | 1.6 | | 0.22 |
| 9/21/2020 | 0.17 | | <0.1 | | | |
| 2/11/2021 | | <0.1 | | | | |
| 2/12/2021 | 0.16 | | | 1.6 | | |
| 2/16/2021 | | | <0.1 | | 0.071 (J) | 0.25 |
| 3/12/2021 | | | | | | 0.24 |
| 3/15/2021 | | <0.1 | | | | |
| 3/16/2021 | | | | 1.7 | | |
| 3/17/2021 | 0.18 | | <0.1 | | 0.072 (J) | |
| 8/17/2021 | | <0.1 | | | 0.075 (J) | 0.24 |
| 8/18/2021 | 0.12 | | | | | |
| 8/19/2021 | | | <0.1 | 1.5 | | |
| 2/9/2022 | 0.076 (J) | | | 1.7 | 0.092 (J) | |
| 2/10/2022 | | <0.1 | 0.051 (J) | | | 0.25 |
| 8/3/2022 | | | 0.075 (J) | | | 0.27 |
| 8/4/2022 | 0.18 | 0.074 (J) | | 1.5 | 0.12 | |
| 1/26/2023 | 0.098 (J) | 0.081 (J) | 0.083 (J) | 1.6 | 0.11 | |
| 1/27/2023 | | | | | | 0.3 |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|----------|-----------|-----------|-----------|-----------|
| 3/12/2019 | 0.24 (J) | 0.07 (J) | | | |
| 3/13/2019 | | | 0.1 (J) | 0.19 (J) | 0.069 (J) |
| 4/2/2019 | 0.18 (J) | 0.045 (J) | | | |
| 4/3/2019 | | | 0.049 (J) | 0.15 (J) | <0.1 |
| 9/24/2019 | | 0.18 (J) | | | |
| 9/25/2019 | | | 0.076 (J) | | |
| 9/26/2019 | 0.22 (J) | | | 0.19 (J) | 0.17 (J) |
| 3/2/2020 | | <0.1 | 0.065 (J) | | |
| 3/3/2020 | | | | 0.062 (J) | <0.1 |
| 3/4/2020 | 0.26 (J) | | | | |
| 3/26/2020 | | | 0.082 (J) | | |
| 3/27/2020 | 0.26 (J) | | | <0.1 | |
| 3/30/2020 | | <0.1 | | | <0.1 |
| 9/16/2020 | | <0.1 | | | |
| 9/17/2020 | | | 0.094 (J) | | |
| 9/21/2020 | 0.1 | | | <0.1 | <0.1 |
| 2/10/2021 | 0.16 | | | | |
| 2/15/2021 | | <0.1 | | | <0.1 |
| 2/16/2021 | | | 0.051 (J) | 0.059 (J) | |
| 3/15/2021 | 0.24 | <0.1 | | | <0.1 |
| 3/16/2021 | | | <0.1 | 0.06 (J) | |
| 8/16/2021 | | <0.1 | | | |
| 8/17/2021 | | | <0.1 | 0.055 (J) | <0.1 |
| 8/18/2021 | 0.14 | | | | |
| 2/8/2022 | | | | | <0.1 |
| 2/9/2022 | | | 0.056 (J) | 0.059 (J) | |
| 2/10/2022 | 0.22 | <0.1 | | | |
| 8/3/2022 | | 0.069 (J) | 0.094 (J) | 0.085 (J) | |
| 8/4/2022 | 0.19 | | | | 0.078 (J) |
| 1/26/2023 | 0.22 | 0.068 (J) | 0.087 (J) | 0.088 (J) | 0.06 (J) |

Time Series

Constituent: Lead (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|-----------|
| 5/19/2016 | <0.001 | <0.001 | <0.001 | | | |
| 5/23/2016 | | | | | | <0.001 |
| 7/11/2016 | <0.001 | <0.001 | | | | |
| 7/12/2016 | | | 0.0001 (J) | | | <0.001 |
| 8/30/2016 | <0.001 | <0.001 | <0.001 | | | |
| 9/1/2016 | | | | | | <0.001 |
| 10/19/2016 | <0.001 | <0.001 | <0.001 | | | |
| 10/24/2016 | | | | | | <0.001 |
| 12/6/2016 | <0.001 | <0.001 | <0.001 | | | |
| 12/7/2016 | | | | | | <0.001 |
| 1/24/2017 | <0.001 | <0.001 | <0.001 | | | |
| 1/26/2017 | | | | | | <0.001 |
| 3/21/2017 | <0.001 | 6E-05 (J) | 0.0001 (J) | | | |
| 3/22/2017 | | | | | | <0.001 |
| 5/22/2017 | <0.001 | 9E-05 (J) | <0.001 | | | |
| 5/24/2017 | | | | | | <0.001 |
| 4/2/2018 | <0.001 | <0.001 | | | | |
| 4/3/2018 | | | <0.001 | | | |
| 4/4/2018 | | | | | | <0.001 |
| 3/12/2019 | <0.001 | <0.001 | <0.001 | | | |
| 3/13/2019 | | | | | | <0.001 |
| 9/23/2019 | 7.8E-05 (J) | 9.2E-05 (J) | <0.001 | | | |
| 3/2/2020 | 4.8E-05 (J) | 9.5E-05 (J) | <0.001 | | | |
| 3/3/2020 | | | | | | <0.001 |
| 3/25/2020 | <0.001 | 0.00011 (J) | <0.001 | | | |
| 4/1/2020 | | | | | | 5E-05 (J) |
| 9/15/2020 | <0.001 | 8E-05 (J) | 4.2E-05 (J) | | | |
| 9/16/2020 | | | | 5E-05 (J) | 0.00021 (J) | <0.001 |
| 11/10/2020 | | | | 6.9E-05 (J) | 0.0002 (J) | |
| 12/15/2020 | | | | 8.2E-05 (J) | 0.00011 (J) | |
| 1/19/2021 | | | | 4.4E-05 (J) | 0.00019 (J) | |
| 2/8/2021 | 5.8E-05 (J) | | | | | |
| 2/9/2021 | | 9.4E-05 (J) | <0.001 | 0.00029 (J) | 0.0001 (J) | |
| 2/15/2021 | | | | | | <0.001 |
| 3/10/2021 | <0.001 | | | | <0.001 | |
| 3/11/2021 | | 7.6E-05 (J) | <0.001 | 9.4E-05 (J) | | |
| 3/12/2021 | | | | | | <0.001 |
| 8/11/2021 | <0.001 | | | <0.001 | | |
| 8/12/2021 | | <0.001 | <0.001 | | | |
| 8/13/2021 | | | | | <0.001 | |
| 8/17/2021 | | | | | | <0.001 |
| 2/1/2022 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 2/9/2022 | | | | | | <0.001 |
| 8/2/2022 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 8/3/2022 | | | | | | <0.001 |
| 1/23/2023 | | | <0.001 | | | |
| 1/24/2023 | <0.001 | <0.001 | | <0.001 | <0.001 | |
| 1/27/2023 | | | | | | <0.001 |

Time Series

Constituent: Lead (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 5/20/2016 | | | | <0.001 | <0.001 | |
| 5/23/2016 | <0.001 | <0.001 | <0.001 | | | <0.001 |
| 7/12/2016 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 9/1/2016 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 10/20/2016 | | | | <0.001 | <0.001 | <0.001 |
| 10/24/2016 | <0.001 | <0.001 | <0.001 | | | |
| 12/6/2016 | | | | 0.0001 (J) | <0.001 | 0.0002 (J) |
| 12/7/2016 | <0.001 | <0.001 | <0.001 | | | |
| 1/25/2017 | | | | 0.0001 (J) | <0.001 | |
| 1/26/2017 | <0.001 | <0.001 | <0.001 | | | 0.0001 (J) |
| 3/21/2017 | | | | 9E-05 (J) | <0.001 | |
| 3/22/2017 | 0.0003 (J) | <0.001 | 7E-05 (J) | | | <0.001 |
| 5/23/2017 | | | | 8E-05 (J) | <0.001 | 0.0001 (J) |
| 5/24/2017 | 9E-05 (J) | <0.001 | <0.001 | | | |
| 4/3/2018 | | | | <0.001 | <0.001 | <0.001 |
| 4/4/2018 | <0.001 | <0.001 | <0.001 | | | |
| 3/12/2019 | | | | | <0.001 | |
| 3/13/2019 | <0.001 | | <0.001 | <0.001 | | <0.001 |
| 3/14/2019 | | <0.001 | | | | |
| 3/3/2020 | 0.00021 (J) | 5.6E-05 (J) | | | 0.00013 (J) | |
| 3/4/2020 | | | 0.00014 (J) | 0.00051 (J) | | 8.4E-05 (J) |
| 3/26/2020 | | 0.00043 (J) | | | | |
| 3/27/2020 | | | | 5.4E-05 (J) | <0.001 | |
| 3/30/2020 | | | 0.0001 (J) | | | |
| 3/31/2020 | 0.0003 (J) | | | | | 0.00014 (J) |
| 9/16/2020 | | | | 0.0002 (J) | 0.0002 (J) | |
| 9/17/2020 | | | | | | 0.00022 (J) |
| 9/18/2020 | 6E-05 (J) | 9.6E-05 (J) | | | | |
| 9/21/2020 | | | 0.00015 (J) | | | |
| 2/10/2021 | | | | 0.00056 (J) | | |
| 2/12/2021 | <0.001 | 6.7E-05 (J) | | | | |
| 2/16/2021 | | | | | 8.6E-05 (J) | 0.0002 (J) |
| 2/22/2021 | | | 0.00018 (J) | | | |
| 3/15/2021 | | | | 0.0013 | 0.00011 (J) | |
| 3/16/2021 | 9.9E-05 (J) | 8.9E-05 (J) | | | | 0.00027 (J) |
| 3/17/2021 | | | 0.00015 (J) | | | |
| 8/16/2021 | | | | <0.001 | | |
| 8/17/2021 | | | | | | <0.001 |
| 8/18/2021 | <0.001 | <0.001 | | | <0.001 | |
| 8/19/2021 | | | <0.001 | | | |
| 2/9/2022 | <0.001 | <0.001 | | | | <0.001 |
| 2/10/2022 | | | <0.001 | <0.001 | <0.001 | |
| 8/3/2022 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 8/4/2022 | | | | | | <0.001 |
| 8/11/2022 | | | | <0.001 | | |
| 1/26/2023 | <0.001 | <0.001 | <0.001 | | | <0.001 |
| 1/27/2023 | | | | <0.001 | | |
| 2/1/2023 | | | | | <0.001 | |

Time Series

Constituent: Lead (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------------|-------------|-------------|--------|------------|-------------|
| 3/13/2019 | | <0.001 | <0.001 | | <0.001 | <0.001 |
| 3/14/2019 | <0.001 | | | <0.001 | | |
| 3/2/2020 | | 0.00017 (J) | | | | |
| 3/3/2020 | | | | <0.001 | | |
| 3/4/2020 | 0.00011 (J) | | 0.00019 (J) | | <0.001 | <0.001 |
| 3/26/2020 | <0.001 | | | <0.001 | | |
| 3/27/2020 | | 0.00013 (J) | | | | |
| 3/30/2020 | | | 6.4E-05 (J) | | | |
| 3/31/2020 | | | | | 0.0001 (J) | |
| 4/2/2020 | | | | | | 0.00013 (J) |
| 9/17/2020 | | <0.001 | | | <0.001 | |
| 9/18/2020 | | | | <0.001 | | <0.001 |
| 9/21/2020 | 8.5E-05 (J) | | 4.2E-05 (J) | | | |
| 2/11/2021 | | 3.9E-05 (J) | | | | |
| 2/12/2021 | 7.1E-05 (J) | | | <0.001 | | |
| 2/16/2021 | | | 0.00012 (J) | | 8E-05 (J) | 0.00043 (J) |
| 3/12/2021 | | | | | | <0.001 |
| 3/15/2021 | | 0.0001 (J) | | | | |
| 3/16/2021 | | | | <0.001 | | |
| 3/17/2021 | 3.8E-05 (J) | | 4E-05 (J) | | <0.001 | |
| 8/17/2021 | | <0.001 | | | <0.001 | <0.001 |
| 8/18/2021 | <0.001 | | | | | |
| 8/19/2021 | | | <0.001 | <0.001 | | |
| 2/9/2022 | <0.001 | | | <0.001 | <0.001 | |
| 2/10/2022 | | <0.001 | <0.001 | | | <0.001 |
| 8/3/2022 | | | <0.001 | | | <0.001 |
| 8/4/2022 | <0.001 | <0.001 | | <0.001 | <0.001 | |
| 1/26/2023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 1/27/2023 | | | | | | <0.001 |

Time Series

Constituent: Lead (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|-------------|-------------|-------------|-------------|-------------|
| 3/12/2019 | <0.001 | <0.001 | | | |
| 3/13/2019 | | | <0.001 | <0.001 | <0.001 |
| 3/2/2020 | | 9E-05 (J) | 4.7E-05 (J) | | |
| 3/3/2020 | | | | 0.00013 (J) | 6.2E-05 (J) |
| 3/4/2020 | 0.001 (J) | | | | |
| 3/26/2020 | | | <0.001 | | |
| 3/27/2020 | 6.2E-05 (J) | | | <0.001 | |
| 3/30/2020 | | 0.00011 (J) | | | <0.001 |
| 9/16/2020 | | <0.001 | | | |
| 9/17/2020 | | | <0.001 | | |
| 9/21/2020 | 0.00018 (J) | | | 0.00026 (J) | <0.001 |
| 2/10/2021 | 0.00044 (J) | | | | |
| 2/15/2021 | | 5.2E-05 (J) | | | <0.001 |
| 2/16/2021 | | | <0.001 | 8.4E-05 (J) | |
| 3/15/2021 | 0.00034 (J) | <0.001 | | | <0.001 |
| 3/16/2021 | | | <0.001 | 3.6E-05 (J) | |
| 8/16/2021 | | <0.001 | | | |
| 8/17/2021 | | | <0.001 | <0.001 | <0.001 |
| 8/18/2021 | <0.001 | | | | |
| 2/8/2022 | | | | | <0.001 |
| 2/9/2022 | | | <0.001 | <0.001 | |
| 2/10/2022 | <0.001 | <0.001 | | | |
| 8/3/2022 | | <0.001 | <0.001 | <0.001 | |
| 8/4/2022 | <0.001 | | | | <0.001 |
| 1/26/2023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|---------|
| 5/19/2016 | <0.03 | <0.03 | <0.03 | | | |
| 5/23/2016 | | | | | | <0.03 |
| 7/11/2016 | <0.03 | 0.0014 (J) | | | | |
| 7/12/2016 | | | 0.0024 (J) | | | <0.03 |
| 8/30/2016 | <0.03 | <0.03 | 0.0025 (J) | | | |
| 9/1/2016 | | | | | | <0.03 |
| 10/19/2016 | <0.03 | <0.03 | 0.003 (J) | | | |
| 10/24/2016 | | | | | | <0.03 |
| 12/6/2016 | <0.03 | <0.03 | 0.0033 (J) | | | |
| 12/7/2016 | | | | | | <0.03 |
| 1/24/2017 | <0.03 | <0.03 | 0.003 (J) | | | |
| 1/26/2017 | | | | | | <0.03 |
| 3/21/2017 | <0.03 | 0.0012 (J) | 0.0034 (J) | | | |
| 3/22/2017 | | | | | | <0.03 |
| 5/22/2017 | <0.03 | <0.03 | 0.003 (J) | | | |
| 5/24/2017 | | | | | | <0.03 |
| 4/2/2018 | <0.03 | 0.0015 (J) | | | | |
| 4/3/2018 | | | 0.003 (J) | | | |
| 4/4/2018 | | | | | | <0.03 |
| 6/4/2018 | 0.001 (J) | 0.0016 (J) | 0.0027 (J) | | | |
| 6/5/2018 | | | | | | <0.03 |
| 10/1/2018 | 0.00099 (J) | 0.0013 (J) | 0.0032 (J) | | | |
| 10/2/2018 | | | | | | <0.03 |
| 3/12/2019 | 0.001 (J) | 0.0018 (J) | 0.0032 (J) | | | |
| 3/13/2019 | | | | | | <0.03 |
| 4/1/2019 | | | 0.0032 (J) | | | |
| 4/2/2019 | 0.001 (J) | 0.0018 (J) | | | | |
| 4/3/2019 | | | | | | <0.03 |
| 9/23/2019 | 0.0011 (J) | 0.0016 (J) | 0.0029 (J) | | | |
| 9/27/2019 | | | | | | <0.03 |
| 3/2/2020 | 0.0012 (J) | 0.0017 (J) | 0.0037 (J) | | | |
| 3/3/2020 | | | | | | <0.03 |
| 3/25/2020 | 0.00083 (J) | 0.0017 (J) | 0.0035 (J) | | | |
| 4/1/2020 | | | | | | <0.03 |
| 9/15/2020 | 0.00087 (J) | 0.0015 (J) | 0.0026 (J) | | | |
| 9/16/2020 | | | | 0.0018 (J) | 0.014 (J) | <0.03 |
| 11/10/2020 | | | | 0.0013 (J) | 0.025 (J) | |
| 12/15/2020 | | | | 0.0019 (J) | 0.028 (J) | |
| 1/19/2021 | | | | 0.0025 (J) | 0.034 | |
| 2/8/2021 | 0.00086 (J) | | | | | |
| 2/9/2021 | | 0.0012 (J) | 0.0032 (J) | 0.0026 (J) | 0.026 (J) | |
| 2/15/2021 | | | | | | <0.03 |
| 3/10/2021 | 0.0009 (J) | | | | 0.03 | |
| 3/11/2021 | | 0.0011 (J) | 0.0035 (J) | 0.0022 (J) | | |
| 3/12/2021 | | | | | | <0.03 |
| 8/11/2021 | 0.00078 (J) | | | 0.0024 (J) | | |
| 8/12/2021 | | 0.0012 (J) | 0.0028 (J) | | | |
| 8/13/2021 | | | | | 0.032 | |
| 8/17/2021 | | | | | | <0.03 |
| 2/1/2022 | 0.0011 (J) | 0.0017 (J) | 0.0037 (J) | 0.0024 (J) | 0.048 | |
| 2/9/2022 | | | | | | <0.03 |
| 8/2/2022 | <0.03 | 0.0013 (J) | 0.003 (J) | 0.0019 (J) | 0.041 | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|---------|
| 8/3/2022 | | | | | | <0.03 |
| 1/23/2023 | | | 0.003 (J) | | | |
| 1/24/2023 | 0.00092 (J) | 0.0014 (J) | | 0.002 (J) | 0.064 | |
| 1/27/2023 | | | | | | <0.03 |

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|---------|------------|------------|------------|------------|------------|
| 5/20/2016 | | | | <0.03 | <0.03 | |
| 5/23/2016 | <0.03 | 0.0107 (J) | 0.0422 (J) | | | <0.03 |
| 7/12/2016 | <0.03 | 0.0113 (J) | 0.0366 (J) | 0.0021 (J) | 0.0023 (J) | 0.004 (J) |
| 9/1/2016 | <0.03 | 0.0118 (J) | 0.04 (J) | 0.0025 (J) | 0.0029 (J) | 0.0044 (J) |
| 10/20/2016 | | | | 0.0021 (J) | 0.0027 (J) | 0.0027 (J) |
| 10/24/2016 | <0.03 | 0.0114 (J) | 0.0435 (J) | | | |
| 12/6/2016 | | | | 0.0026 (J) | 0.0032 (J) | 0.005 (J) |
| 12/7/2016 | <0.03 | 0.0155 (J) | 0.0477 (J) | | | |
| 1/25/2017 | | | | 0.0024 (J) | 0.0026 (J) | |
| 1/26/2017 | <0.03 | 0.0099 (J) | 0.0342 (J) | | | 0.0042 (J) |
| 3/21/2017 | | | | 0.0026 (J) | 0.0029 (J) | |
| 3/22/2017 | <0.03 | 0.0098 (J) | 0.0353 (J) | | | 0.0043 (J) |
| 5/23/2017 | | | | 0.0026 (J) | 0.0029 (J) | 0.0048 (J) |
| 5/24/2017 | <0.03 | 0.0105 (J) | 0.0317 (J) | | | |
| 4/3/2018 | | | | 0.0023 (J) | 0.0025 (J) | 0.0043 (J) |
| 4/4/2018 | <0.03 | 0.008 (J) | 0.031 (J) | | | |
| 6/5/2018 | <0.03 | | 0.031 (J) | 0.0022 (J) | | |
| 6/6/2018 | | 0.0095 (J) | | | 0.0023 (J) | 0.0043 (J) |
| 10/2/2018 | | | | 0.003 (J) | 0.0025 (J) | 0.004 (J) |
| 10/3/2018 | <0.03 | 0.0083 (J) | | | | |
| 10/5/2018 | | | 0.027 (J) | | | |
| 3/12/2019 | | | | | 0.0025 (J) | |
| 3/13/2019 | <0.03 | | 0.029 (J) | 0.0024 (J) | | 0.004 (J) |
| 3/14/2019 | | 0.0058 (J) | | | | |
| 4/2/2019 | | | | 0.002 (J) | | |
| 4/3/2019 | <0.03 | 0.0066 (J) | | | 0.0025 (J) | 0.004 (J) |
| 4/5/2019 | | | 0.023 (J) | | | |
| 9/24/2019 | | | | | 0.0024 (J) | |
| 9/25/2019 | | | | 0.0019 (J) | | |
| 9/26/2019 | | | 0.035 | | | |
| 9/27/2019 | <0.03 | 0.011 (J) | | | | 0.0044 (J) |
| 3/3/2020 | <0.03 | 0.0063 (J) | | | 0.0028 (J) | |
| 3/4/2020 | | | 0.041 | 0.0034 (J) | | 0.004 (J) |
| 3/26/2020 | | 0.0063 (J) | | | | |
| 3/27/2020 | | | | 0.002 (J) | 0.0026 (J) | |
| 3/30/2020 | | | 0.038 | | | |
| 3/31/2020 | <0.03 | | | | | 0.0043 (J) |
| 9/16/2020 | | | | 0.0026 (J) | 0.0033 (J) | |
| 9/17/2020 | | | | | | 0.004 (J) |
| 9/18/2020 | <0.03 | 0.01 (J) | | | | |
| 9/21/2020 | | | 0.028 (J) | | | |
| 2/10/2021 | | | | 0.0032 (J) | | |
| 2/12/2021 | <0.03 | 0.0094 (J) | | | | |
| 2/16/2021 | | | | | 0.0027 (J) | 0.0045 (J) |
| 2/22/2021 | | | 0.032 | | | |
| 3/15/2021 | | | | 0.0038 (J) | 0.0029 (J) | |
| 3/16/2021 | <0.03 | 0.0081 (J) | | | | 0.0046 (J) |
| 3/17/2021 | | | 0.031 | | | |
| 8/16/2021 | | | | 0.0025 (J) | | |
| 8/17/2021 | | | | | | 0.004 (J) |
| 8/18/2021 | <0.03 | 0.0099 (J) | | | 0.0029 (J) | |
| 8/19/2021 | | | 0.028 (J) | | | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|------------|-----------|------------|------------|------------|
| 2/9/2022 | <0.03 | 0.01 (J) | | | | 0.0041 (J) |
| 2/10/2022 | | | 0.031 | 0.0022 (J) | 0.003 (J) | |
| 8/3/2022 | <0.03 | 0.0068 (J) | 0.029 (J) | 0.0019 (J) | 0.0026 (J) | |
| 8/4/2022 | | | | | | 0.0036 (J) |
| 8/11/2022 | | | | 0.0019 (J) | | |
| 1/26/2023 | <0.03 | 0.0058 (J) | 0.04 | | | 0.0032 (J) |
| 1/27/2023 | | | | 0.0018 (J) | | |
| 2/1/2023 | | | | | 0.0015 (J) | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|------------|-------------|------------|-----------|------------|------------|
| 3/13/2019 | | 0.0016 (J) | 0.0029 (J) | | 0.0033 (J) | 0.0097 (J) |
| 3/14/2019 | 0.0089 (J) | | | 0.05 | | |
| 4/2/2019 | | 0.0015 (J) | | | | |
| 4/3/2019 | 0.0061 (J) | | | 0.047 (J) | 0.0034 (J) | |
| 4/4/2019 | | | | | | 0.0069 (J) |
| 4/8/2019 | | | 0.0027 (J) | | | |
| 9/25/2019 | | <0.03 | | | | |
| 9/26/2019 | | | 0.003 (J) | | 0.0041 (J) | 0.0055 (J) |
| 9/27/2019 | 0.013 (J) | | | 0.047 | | |
| 3/2/2020 | | 0.00082 (J) | | | | |
| 3/3/2020 | | | | 0.05 | | |
| 3/4/2020 | 0.01 (J) | | 0.0026 (J) | | 0.03 (J) | 0.0047 (J) |
| 3/26/2020 | 0.013 (J) | | | 0.054 | | |
| 3/27/2020 | | 0.0012 (J) | | | | |
| 3/30/2020 | | | 0.0027 (J) | | | |
| 3/31/2020 | | | | | 0.0036 (J) | |
| 4/2/2020 | | | | | | 0.0068 (J) |
| 9/17/2020 | | <0.03 | | | 0.0032 (J) | |
| 9/18/2020 | | | | 0.046 | | 0.0084 (J) |
| 9/21/2020 | 0.013 (J) | | 0.0024 (J) | | | |
| 2/11/2021 | | 0.001 (J) | | | | |
| 2/12/2021 | 0.012 (J) | | | 0.045 | | |
| 2/16/2021 | | | 0.0028 (J) | | 0.0038 (J) | 0.0078 (J) |
| 3/12/2021 | | | | | | 0.009 (J) |
| 3/15/2021 | | 0.0011 (J) | | | | |
| 3/16/2021 | | | | 0.049 | | |
| 3/17/2021 | 0.012 (J) | | 0.0027 (J) | | 0.004 (J) | |
| 8/17/2021 | | 0.00091 (J) | | | 0.0036 (J) | 0.0079 (J) |
| 8/18/2021 | 0.014 (J) | | | | | |
| 8/19/2021 | | | 0.0027 (J) | 0.046 | | |
| 2/9/2022 | 0.0067 (J) | | | 0.048 | 0.0039 (J) | |
| 2/10/2022 | | 0.00099 (J) | 0.0029 (J) | | | 0.0086 (J) |
| 8/3/2022 | | | 0.0024 (J) | | | 0.0063 (J) |
| 8/4/2022 | 0.013 (J) | 0.00075 (J) | | 0.04 | 0.0033 (J) | |
| 1/26/2023 | 0.0038 (J) | <0.03 | 0.0025 (J) | 0.036 | 0.0031 (J) | |
| 1/27/2023 | | | | | | 0.0072 (J) |

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/14/2023 12:20 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|------------|------------|-------|-------|-------|
| 3/12/2019 | 0.011 (J) | 0.0024 (J) | | | |
| 3/13/2019 | | | <0.03 | <0.03 | <0.03 |
| 4/2/2019 | 0.0052 (J) | 0.0021 (J) | | | |
| 4/3/2019 | | | <0.03 | <0.03 | <0.03 |
| 9/24/2019 | | 0.0022 (J) | | | |
| 9/25/2019 | | | <0.03 | | |
| 9/26/2019 | 0.0055 (J) | | | <0.03 | <0.03 |
| 3/2/2020 | | 0.0025 (J) | <0.03 | | |
| 3/3/2020 | | | | <0.03 | <0.03 |
| 3/4/2020 | 0.015 (J) | | | | |
| 3/26/2020 | | | <0.03 | | |
| 3/27/2020 | 0.014 (J) | | | <0.03 | |
| 3/30/2020 | | 0.0023 (J) | | | <0.03 |
| 9/16/2020 | | 0.0021 (J) | | | |
| 9/17/2020 | | | <0.03 | | |
| 9/21/2020 | 0.0053 (J) | | | <0.03 | <0.03 |
| 2/10/2021 | 0.0092 (J) | | | | |
| 2/15/2021 | | 0.0024 (J) | | | <0.03 |
| 2/16/2021 | | | <0.03 | <0.03 | |
| 3/15/2021 | 0.013 (J) | 0.0022 (J) | | | <0.03 |
| 3/16/2021 | | | <0.03 | <0.03 | |
| 8/16/2021 | | 0.0021 (J) | | | |
| 8/17/2021 | | | <0.03 | <0.03 | <0.03 |
| 8/18/2021 | 0.0086 (J) | | | | |
| 2/8/2022 | | | | | <0.03 |
| 2/9/2022 | | | <0.03 | <0.03 | |
| 2/10/2022 | 0.014 (J) | 0.0023 (J) | | | |
| 8/3/2022 | | 0.0018 (J) | <0.03 | <0.03 | |
| 8/4/2022 | 0.0088 (J) | | | | <0.03 |
| 1/26/2023 | 0.011 (J) | 0.0019 (J) | <0.03 | <0.03 | <0.03 |

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|-----------|
| 5/19/2016 | <0.0002 | <0.0002 | <0.0002 | | | |
| 5/23/2016 | | | | | | <0.0002 |
| 7/11/2016 | <0.0002 | <0.0002 | | | | |
| 7/12/2016 | | | <0.0002 | | | <0.0002 |
| 8/30/2016 | 4E-05 (J) | 4E-05 (J) | <0.0002 | | | |
| 9/1/2016 | | | | | | <0.0002 |
| 10/19/2016 | <0.0002 | <0.0002 | <0.0002 | | | |
| 10/24/2016 | | | | | | <0.0002 |
| 12/6/2016 | <0.0002 | <0.0002 | <0.0002 | | | |
| 12/7/2016 | | | | | | <0.0002 |
| 1/24/2017 | <0.0002 | <0.0002 | <0.0002 | | | |
| 1/26/2017 | | | | | | 5E-05 (J) |
| 3/21/2017 | <0.0002 | <0.0002 | <0.0002 | | | |
| 3/22/2017 | | | | | | <0.0002 |
| 5/22/2017 | <0.0002 | <0.0002 | <0.0002 | | | |
| 5/24/2017 | | | | | | <0.0002 |
| 4/2/2018 | <0.0002 | <0.0002 | | | | |
| 4/3/2018 | | | <0.0002 | | | |
| 4/4/2018 | | | | | | <0.0002 |
| 3/12/2019 | <0.0002 | <0.0002 | <0.0002 | | | |
| 3/13/2019 | | | | | | <0.0002 |
| 3/2/2020 | <0.0002 | <0.0002 | <0.0002 | | | |
| 3/3/2020 | | | | | | <0.0002 |
| 9/16/2020 | | | | <0.0002 | <0.0002 | |
| 11/10/2020 | | | | <0.0002 | <0.0002 | |
| 12/15/2020 | | | | <0.0002 | <0.0002 | |
| 1/19/2021 | | | | <0.0002 | <0.0002 | |
| 2/8/2021 | <0.0002 | | | | | |
| 2/9/2021 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 2/15/2021 | | | | | | <0.0002 |
| 2/1/2022 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 2/9/2022 | | | | | | <0.0002 |
| 8/2/2022 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 8/3/2022 | | | | | | <0.0002 |
| 1/23/2023 | | | <0.0002 | | | |
| 1/24/2023 | <0.0002 | <0.0002 | | <0.0002 | <0.0002 | |
| 1/27/2023 | | | | | | <0.0002 |

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-----------|---------|-----------|---------|---------|-----------|
| 5/20/2016 | | | | <0.0002 | <0.0002 | |
| 5/23/2016 | <0.0002 | <0.0002 | <0.0002 | | | <0.0002 |
| 7/12/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 9/1/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 10/20/2016 | | | | <0.0002 | <0.0002 | <0.0002 |
| 10/24/2016 | <0.0002 | <0.0002 | <0.0002 | | | |
| 12/6/2016 | | | | <0.0002 | <0.0002 | <0.0002 |
| 12/7/2016 | <0.0002 | <0.0002 | <0.0002 | | | |
| 1/25/2017 | | | | <0.0002 | <0.0002 | |
| 1/26/2017 | 5E-05 (J) | <0.0002 | 4E-05 (J) | | | 4E-05 (J) |
| 3/21/2017 | | | | <0.0002 | <0.0002 | |
| 3/22/2017 | <0.0002 | <0.0002 | <0.0002 | | | <0.0002 |
| 5/23/2017 | | | | <0.0002 | <0.0002 | <0.0002 |
| 5/24/2017 | <0.0002 | <0.0002 | 5E-05 (J) | | | |
| 4/3/2018 | | | | <0.0002 | <0.0002 | <0.0002 |
| 4/4/2018 | <0.0002 | <0.0002 | <0.0002 | | | |
| 3/12/2019 | | | | | <0.0002 | |
| 3/13/2019 | <0.0002 | | <0.0002 | <0.0002 | | <0.0002 |
| 3/14/2019 | | <0.0002 | | | | |
| 3/3/2020 | <0.0002 | <0.0002 | | | <0.0002 | |
| 3/4/2020 | | | <0.0002 | <0.0002 | | <0.0002 |
| 2/10/2021 | | | | <0.0002 | | |
| 2/12/2021 | <0.0002 | <0.0002 | | | | |
| 2/16/2021 | | | | | <0.0002 | <0.0002 |
| 2/22/2021 | | | <0.0002 | | | |
| 2/9/2022 | <0.0002 | <0.0002 | | | | <0.0002 |
| 2/10/2022 | | | <0.0002 | <0.0002 | <0.0002 | |
| 8/3/2022 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 8/4/2022 | | | | | | <0.0002 |
| 8/11/2022 | | | | <0.0002 | | |
| 1/26/2023 | <0.0002 | <0.0002 | <0.0002 | | | <0.0002 |
| 1/27/2023 | | | | <0.0002 | | |
| 2/1/2023 | | | | | <0.0002 | |

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|---------|---------|---------|---------|---------|---------|
| 3/13/2019 | | <0.0002 | <0.0002 | | <0.0002 | <0.0002 |
| 3/14/2019 | <0.0002 | | | <0.0002 | | |
| 3/2/2020 | | <0.0002 | | | | |
| 3/3/2020 | | | | <0.0002 | | |
| 3/4/2020 | <0.0002 | | <0.0002 | | <0.0002 | <0.0002 |
| 2/11/2021 | | <0.0002 | | | | |
| 2/12/2021 | <0.0002 | | | <0.0002 | | |
| 2/16/2021 | | | <0.0002 | | <0.0002 | <0.0002 |
| 2/9/2022 | <0.0002 | | | <0.0002 | <0.0002 | |
| 2/10/2022 | | <0.0002 | <0.0002 | | | <0.0002 |
| 8/3/2022 | | | <0.0002 | | | <0.0002 |
| 8/4/2022 | <0.0002 | <0.0002 | | <0.0002 | <0.0002 | |
| 1/26/2023 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 1/27/2023 | | | | | | <0.0002 |

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|---------|---------|---------|---------|---------|
| 3/12/2019 | <0.0002 | <0.0002 | | | |
| 3/13/2019 | | | <0.0002 | <0.0002 | <0.0002 |
| 3/2/2020 | | <0.0002 | <0.0002 | | |
| 3/3/2020 | | | | <0.0002 | <0.0002 |
| 3/4/2020 | <0.0002 | | | | |
| 2/10/2021 | <0.0002 | | | | |
| 2/15/2021 | | <0.0002 | | | <0.0002 |
| 2/16/2021 | | | <0.0002 | <0.0002 | |
| 2/8/2022 | | | | | <0.0002 |
| 2/9/2022 | | | <0.0002 | <0.0002 | |
| 2/10/2022 | <0.0002 | <0.0002 | | | |
| 8/3/2022 | | <0.0002 | <0.0002 | <0.0002 | |
| 8/4/2022 | <0.0002 | | | | <0.0002 |
| 1/26/2023 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|------------|
| 5/19/2016 | <0.01 | <0.01 | <0.01 | | | |
| 5/23/2016 | | | | | | <0.01 |
| 7/11/2016 | <0.01 | <0.01 | | | | |
| 7/12/2016 | | | <0.01 | | | 0.0013 (J) |
| 8/30/2016 | <0.01 | <0.01 | <0.01 | | | |
| 9/1/2016 | | | | | | <0.01 |
| 10/19/2016 | <0.01 | <0.01 | <0.01 | | | |
| 10/24/2016 | | | | | | <0.01 |
| 12/6/2016 | <0.01 | <0.01 | <0.01 | | | |
| 12/7/2016 | | | | | | <0.01 |
| 1/24/2017 | <0.01 | <0.01 | <0.01 | | | |
| 1/26/2017 | | | | | | <0.01 |
| 3/21/2017 | <0.01 | <0.01 | <0.01 | | | |
| 3/22/2017 | | | | | | 0.0013 (J) |
| 5/22/2017 | <0.01 | <0.01 | <0.01 | | | |
| 5/24/2017 | | | | | | 0.0014 (J) |
| 4/2/2018 | <0.01 | <0.01 | | | | |
| 4/3/2018 | | | <0.01 | | | |
| 4/4/2018 | | | | | | <0.01 |
| 6/4/2018 | <0.01 | <0.01 | <0.01 | | | |
| 6/5/2018 | | | | | | <0.01 |
| 10/1/2018 | <0.01 | <0.01 | <0.01 | | | |
| 10/2/2018 | | | | | | <0.01 |
| 3/12/2019 | <0.01 | <0.01 | <0.01 | | | |
| 3/13/2019 | | | | | | <0.01 |
| 4/1/2019 | | | <0.01 | | | |
| 4/2/2019 | <0.01 | <0.01 | | | | |
| 4/3/2019 | | | | | | 0.0021 (J) |
| 9/23/2019 | <0.01 | <0.01 | <0.01 | | | |
| 9/27/2019 | | | | | | 0.0014 (J) |
| 3/2/2020 | <0.01 | <0.01 | <0.01 | | | |
| 3/3/2020 | | | | | | <0.01 |
| 3/25/2020 | <0.01 | <0.01 | <0.01 | | | |
| 4/1/2020 | | | | | | <0.01 |
| 6/16/2020 | <0.01 | | <0.01 | | | |
| 9/15/2020 | <0.01 | <0.01 | <0.01 | | | |
| 9/16/2020 | | | | 0.0044 (J) | 0.0019 (J) | 0.0014 (J) |
| 11/10/2020 | | | | 0.0072 (J) | 0.0018 (J) | |
| 12/15/2020 | | | | 0.0044 (J) | 0.0019 (J) | |
| 1/19/2021 | | | | 0.0038 (J) | 0.0035 (J) | |
| 2/8/2021 | <0.01 | | | | | |
| 2/9/2021 | | <0.01 | <0.01 | 0.0045 (J) | 0.0038 (J) | |
| 2/15/2021 | | | | | | <0.01 |
| 3/10/2021 | <0.01 | | | | 0.0019 (J) | |
| 3/11/2021 | | <0.01 | <0.01 | 0.0064 (J) | | |
| 3/12/2021 | | | | | | 0.0007 (J) |
| 8/11/2021 | <0.01 | | | 0.0034 (J) | | |
| 8/12/2021 | | <0.01 | <0.01 | | | |
| 8/13/2021 | | | | | 0.0051 (J) | |
| 8/17/2021 | | | | | | 0.0012 (J) |
| 2/1/2022 | <0.01 | <0.01 | <0.01 | 0.0036 (J) | 0.0055 (J) | |
| 2/9/2022 | | | | | | <0.01 |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|-------------|
| 8/2/2022 | <0.01 | <0.01 | <0.01 | 0.0042 (J) | 0.002 (J) | |
| 8/3/2022 | | | | | | 0.00079 (J) |
| 1/23/2023 | | | <0.01 | | | |
| 1/24/2023 | <0.01 | <0.01 | | 0.0027 (J) | 0.0026 (J) | |
| 1/27/2023 | | | | | | <0.01 |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|------------|------------|---------|--------|--------|--------|
| 5/20/2016 | | | | 0.028 | 0.446 | |
| 5/23/2016 | 0.0164 | 0.0413 (J) | 0.027 | | | 0.0187 |
| 7/12/2016 | 0.0251 | 0.0484 | 0.0316 | 0.0273 | 0.455 | 0.0229 |
| 9/1/2016 | 0.0259 | 0.0474 | 0.0336 | 0.0274 | 0.481 | 0.0239 |
| 10/20/2016 | | | | 0.036 | 0.472 | 0.477 |
| 10/24/2016 | 0.0293 | 0.047 | 0.0352 | | | |
| 12/6/2016 | | | | 0.0365 | 0.52 | 0.0236 |
| 12/7/2016 | 0.0209 | 0.0432 | 0.0383 | | | |
| 1/25/2017 | | | | 0.0317 | 0.478 | |
| 1/26/2017 | 0.0277 | 0.0484 | 0.041 | | | 0.0234 |
| 3/21/2017 | | | | 0.0346 | 0.547 | |
| 3/22/2017 | 0.011 | 0.0494 | 0.0426 | | | 0.0219 |
| 5/23/2017 | | | | 0.0336 | 0.482 | 0.0242 |
| 5/24/2017 | 0.0373 | 0.047 | 0.04 | | | |
| 4/3/2018 | | | | 0.032 | 0.44 | 0.025 |
| 4/4/2018 | 0.013 | 0.052 | 0.027 | | | |
| 6/5/2018 | 0.029 | | 0.027 | 0.036 | | |
| 6/6/2018 | | 0.054 | | | 0.49 | 0.027 |
| 10/2/2018 | | | | 0.039 | 0.47 | 0.028 |
| 10/3/2018 | 0.02 | 0.054 | | | | |
| 10/5/2018 | | | 0.033 | | | |
| 3/12/2019 | | | | | 0.5 | |
| 3/13/2019 | 0.012 | | 0.033 | 0.04 | | 0.028 |
| 3/14/2019 | | 0.046 | | | | |
| 4/2/2019 | | | | 0.041 | | |
| 4/3/2019 | 0.01 | 0.049 | | | 0.5 | 0.03 |
| 4/5/2019 | | | 0.03 | | | |
| 9/24/2019 | | | | | 0.54 | |
| 9/25/2019 | | | | 0.047 | | |
| 9/26/2019 | | | 0.026 | | | |
| 9/27/2019 | 0.016 | 0.052 | | | | 0.033 |
| 3/3/2020 | 0.011 | 0.045 | | | 0.44 | |
| 3/4/2020 | | | 0.03 | 0.045 | | 0.031 |
| 3/26/2020 | | 0.045 | | | | |
| 3/27/2020 | | | | 0.044 | 0.42 | |
| 3/30/2020 | | | 0.029 | | | |
| 3/31/2020 | 0.0074 (J) | | | | | 0.031 |
| 6/16/2020 | | | | | 0.45 | |
| 6/17/2020 | | | | 0.048 | | |
| 9/16/2020 | | | | 0.046 | 0.43 | |
| 9/17/2020 | | | | | | 0.03 |
| 9/18/2020 | 0.032 | 0.046 | | | | |
| 9/21/2020 | | | 0.032 | | | |
| 2/10/2021 | | | | 0.051 | | |
| 2/12/2021 | 0.023 | 0.048 | | | | |
| 2/16/2021 | | | | | 0.46 | 0.035 |
| 2/22/2021 | | | 0.036 | | | |
| 3/15/2021 | | | | 0.047 | 0.41 | |
| 3/16/2021 | 0.015 | 0.044 | | | | 0.035 |
| 3/17/2021 | | | 0.035 | | | |
| 8/16/2021 | | | | 0.045 | | |
| 8/17/2021 | | | | | | 0.035 |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|---------|---------|--------|--------|--------|
| 8/18/2021 | 0.038 | 0.045 | | | 0.48 | |
| 8/19/2021 | | | 0.032 | | | |
| 2/9/2022 | 0.03 | 0.042 | | | | 0.034 |
| 2/10/2022 | | | 0.033 | 0.045 | 0.34 | |
| 8/3/2022 | 0.027 | 0.047 | 0.035 | 0.038 | 0.29 | |
| 8/4/2022 | | | | | | 0.033 |
| 8/11/2022 | | | | 0.044 | | |
| 1/26/2023 | 0.022 | 0.048 | 0.023 | | | 0.021 |
| 1/27/2023 | | | | 0.039 | | |
| 2/1/2023 | | | | | 0.29 | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|------------|-------|-------|-------------|-------------|------------|------------|
| 3/13/2019 | | <0.01 | <0.01 | | <0.01 | <0.01 |
| 3/14/2019 | 0.057 | | | 0.0022 (J) | | |
| 4/2/2019 | | <0.01 | | | | |
| 4/3/2019 | 0.04 | | | <0.01 | 0.0083 (J) | |
| 4/4/2019 | | | | | | 0.0018 (J) |
| 4/8/2019 | | | 0.00027 (J) | | | |
| 9/25/2019 | | <0.01 | | | | |
| 9/26/2019 | | | <0.01 | | 0.017 | 0.0042 (J) |
| 9/27/2019 | 0.063 | | | <0.01 | | |
| 11/25/2019 | | | | | 0.02 | |
| 3/2/2020 | | <0.01 | | | | |
| 3/3/2020 | | | | <0.01 | | |
| 3/4/2020 | 0.032 | | <0.01 | | 0.0074 (J) | 0.0058 (J) |
| 3/26/2020 | 0.033 | | | <0.01 | | |
| 3/27/2020 | | <0.01 | | | | |
| 3/30/2020 | | | <0.01 | | | |
| 3/31/2020 | | | | | 0.0093 (J) | |
| 4/2/2020 | | | | | | 0.003 (J) |
| 9/17/2020 | | <0.01 | | | 0.014 | |
| 9/18/2020 | | | | 0.00094 (J) | | 0.0018 (J) |
| 9/21/2020 | 0.064 | | 0.00099 (J) | | | |
| 2/11/2021 | | <0.01 | | | | |
| 2/12/2021 | 0.046 | | | <0.01 | | |
| 2/16/2021 | | | 0.00096 (J) | | 0.022 | 0.0019 (J) |
| 3/12/2021 | | | | | | 0.0008 (J) |
| 3/15/2021 | | <0.01 | | | | |
| 3/16/2021 | | | | <0.01 | | |
| 3/17/2021 | 0.043 | | 0.001 (J) | | 0.023 | |
| 8/17/2021 | | <0.01 | | | 0.024 | 0.0016 (J) |
| 8/18/2021 | 0.032 | | | | | |
| 8/19/2021 | | | 0.00087 (J) | <0.01 | | |
| 2/9/2022 | 0.011 | | | <0.01 | 0.028 | |
| 2/10/2022 | | <0.01 | 0.0008 (J) | | | 0.0017 (J) |
| 8/3/2022 | | | 0.00095 (J) | | | 0.002 (J) |
| 8/4/2022 | 0.039 | <0.01 | | <0.01 | 0.028 | |
| 1/26/2023 | 0.012 | <0.01 | 0.0012 (J) | <0.01 | 0.028 | |
| 1/27/2023 | | | | | | 0.0014 (J) |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|------------|------------|-------|------------|------------|
| 3/12/2019 | 0.013 | 0.0038 (J) | | | |
| 3/13/2019 | | | <0.01 | 0.0021 (J) | <0.01 |
| 4/2/2019 | 0.028 | 0.0028 (J) | | | |
| 4/3/2019 | | | <0.01 | 0.0021 (J) | <0.01 |
| 9/24/2019 | | 0.0021 (J) | | | |
| 9/25/2019 | | | <0.01 | | |
| 9/26/2019 | 0.017 | | | 0.0026 (J) | 0.0033 (J) |
| 3/2/2020 | | 0.0025 (J) | <0.01 | | |
| 3/3/2020 | | | | 0.0022 (J) | <0.01 |
| 3/4/2020 | 0.009 (J) | | | | |
| 3/26/2020 | | | <0.01 | | |
| 3/27/2020 | 0.0068 (J) | | | 0.0026 (J) | |
| 3/30/2020 | | 0.0029 (J) | | | <0.01 |
| 9/16/2020 | | 0.0021 (J) | | | |
| 9/17/2020 | | | <0.01 | | |
| 9/21/2020 | 0.018 | | | 0.0025 (J) | 0.0015 (J) |
| 2/10/2021 | 0.02 | | | | |
| 2/15/2021 | | 0.0029 (J) | | | 0.0015 (J) |
| 2/16/2021 | | | <0.01 | 0.0025 (J) | |
| 3/15/2021 | 0.013 | 0.0031 (J) | | | 0.0015 (J) |
| 3/16/2021 | | | <0.01 | 0.0023 (J) | |
| 8/16/2021 | | 0.0027 (J) | | | |
| 8/17/2021 | | | <0.01 | 0.0027 (J) | 0.003 (J) |
| 8/18/2021 | 0.022 | | | | |
| 2/8/2022 | | | | | 0.0012 (J) |
| 2/9/2022 | | | <0.01 | 0.0026 (J) | |
| 2/10/2022 | 0.0031 (J) | 0.0036 (J) | | | |
| 8/3/2022 | | 0.0032 (J) | <0.01 | 0.0028 (J) | |
| 8/4/2022 | 0.011 | | | | 0.0014 (J) |
| 1/26/2023 | 0.0025 (J) | 0.0029 (J) | <0.01 | 0.0029 (J) | <0.01 |

Time Series

Constituent: pH, Field (SU) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|---------|
| 5/19/2016 | 7.27 | 5.81 | 7.45 | | | |
| 5/23/2016 | | | | | | 6.83 |
| 7/11/2016 | 7.06 | 5.68 | | | | |
| 7/12/2016 | | | 7.32 | | | 6.58 |
| 8/30/2016 | 7.28 | 5.63 | 7.43 | | | |
| 9/1/2016 | | | | | | 6.54 |
| 10/19/2016 | 7.02 | 5.46 | 7.03 | | | |
| 10/24/2016 | | | | | | 6.59 |
| 12/6/2016 | 7.09 | 5.38 | 7.08 | | | |
| 12/7/2016 | | | | | | 6.56 |
| 1/24/2017 | 7.2 | 5.37 | 7.39 | | | |
| 1/26/2017 | | | | | | 6.83 |
| 3/21/2017 | 7.01 | 4.9 | 6.83 | | | |
| 3/22/2017 | | | | | | 6.66 |
| 5/22/2017 | 7.11 | 5.2 | 7.02 | | | |
| 5/24/2017 | | | | | | 6.67 |
| 10/3/2017 | 7.21 | 5.3 | 7.47 | | | 6.54 |
| 4/2/2018 | 7.1 | 5.4 | | | | |
| 4/3/2018 | | | 7.38 | | | |
| 4/4/2018 | | | | | | 6.61 |
| 6/4/2018 | 7.06 | 5.27 | 7.38 | | | |
| 6/5/2018 | | | | | | 6.65 |
| 10/1/2018 | 7.09 | 5.31 | 7.13 | | | |
| 10/2/2018 | | | | | | 6.55 |
| 3/12/2019 | 7.03 | 5.42 | 7.29 | | | |
| 3/13/2019 | | | | | | 6.7 |
| 4/1/2019 | | | 7.16 | | | |
| 4/2/2019 | 6.86 | 5.41 | | | | |
| 4/3/2019 | | | | | | 6.55 |
| 9/23/2019 | 7.02 | 5.33 | 7.3 | | | |
| 9/27/2019 | | | | | | 6.64 |
| 3/2/2020 | 7.1 | 5.43 | 7.12 | | | |
| 3/3/2020 | | | | | | 6.67 |
| 3/25/2020 | 6.95 | 5.36 | 7.4 | | | |
| 4/1/2020 | | | | | | 6.84 |
| 6/16/2020 | 6.97 (D) | | 7.31 (D) | | | |
| 9/15/2020 | 7.15 | 5.22 | 7.29 | | | |
| 9/16/2020 | | | | 7.52 | 7.83 | 6.66 |
| 11/10/2020 | | | | 7.27 | 7.84 | |
| 12/15/2020 | | | | 7.39 | 7.87 | |
| 1/19/2021 | | | | 7.39 | 7.86 | |
| 2/8/2021 | 7.11 | | | | | |
| 2/9/2021 | | 5.42 | 7.23 | 7.44 | 7.84 | |
| 2/15/2021 | | | | | | 6.83 |
| 3/10/2021 | 6.95 | | | | 7.92 | |
| 3/11/2021 | | 5.8 | 7.33 | 7.46 | | |
| 3/12/2021 | | | | | | 6.76 |
| 8/11/2021 | 6.98 | | | 7.4 | | |
| 8/12/2021 | | 5.05 | 7.31 | | | |
| 8/13/2021 | | | | | 7.77 | |
| 8/17/2021 | | | | | | 6.75 |
| 2/1/2022 | 7.19 | 5.24 | 7.45 | 7.52 | 8.25 | |

Time Series

Constituent: pH, Field (SU) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|---------|
| 2/9/2022 | | | | | | 7 |
| 8/3/2022 | | | | | | 6.73 |
| 1/23/2023 | | | 7.32 | | | |
| 1/24/2023 | 6.76 | 5.22 | | 7.56 | 8.22 | |
| 1/27/2023 | | | | | | 6.89 |

Time Series

Constituent: pH, Field (SU) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|---------|---------|---------|---------|----------|--------|
| 5/20/2016 | | | | 7.14 | 6.99 | |
| 5/23/2016 | 6.22 | 7.15 | 7.14 | | | 7.23 |
| 7/12/2016 | 6.04 | 6.87 | 7.04 | 7.13 | 6.88 | 6.87 |
| 9/1/2016 | 6.26 | 7.2 | 7.24 | 7.29 | 6.73 | 7.15 |
| 10/20/2016 | | | | 7.1 | 6.9 | 7.05 |
| 10/24/2016 | 6.46 | 7.1 | 6.9 | | | |
| 12/6/2016 | | | | 7.15 | 6.98 | 7.15 |
| 12/7/2016 | 6.29 | 6.92 | 6.91 | | | |
| 1/25/2017 | | | | 7.11 | 7.04 | |
| 1/26/2017 | 6.46 | 7.05 | 7.08 | | | 6.99 |
| 3/21/2017 | | | | 7.12 | 6.87 | |
| 3/22/2017 | 5.81 | 7.08 | 7.13 | | | 7.03 |
| 5/23/2017 | | | | 7.08 | 6.87 | 7.05 |
| 5/24/2017 | 6.51 | 7.11 | 7.15 | | | |
| 10/3/2017 | 6.25 | 7.01 | 7.32 | 7.21 | 6.72 | 7.07 |
| 4/3/2018 | | | | 7.14 | 6.87 | 6.99 |
| 4/4/2018 | 5.86 | 7.12 | 7.27 | | | |
| 6/5/2018 | 6.27 | | 7.2 | 7.13 | | |
| 6/6/2018 | | 7.12 | | | 6.9 | 7.02 |
| 10/2/2018 | | | | 7.12 | 6.9 | 7.05 |
| 10/3/2018 | 5.97 | 7.08 | | | | |
| 10/5/2018 | | | 7.24 | | | |
| 3/12/2019 | | | | | 6.91 | |
| 3/13/2019 | 5.92 | | 7.24 | 7.27 | | 7.06 |
| 3/14/2019 | | 7.09 | | | | |
| 4/2/2019 | | | | 7.27 | | |
| 4/3/2019 | 5.69 | 6.96 | | | 6.85 | 6.88 |
| 4/5/2019 | | | 7.24 | | | |
| 9/24/2019 | | | | | 6.95 | |
| 9/25/2019 | | | | 7.11 | | |
| 9/26/2019 | | | 6.94 | | | |
| 9/27/2019 | 5.75 | 7.07 | | | | 7.01 |
| 3/3/2020 | 5.95 | 6.95 | | | 7.06 | |
| 3/4/2020 | | | 7.16 | 7.17 | | 6.97 |
| 3/26/2020 | | 6.99 | | | | |
| 3/27/2020 | | | | 7.05 | 6.95 | |
| 3/30/2020 | | | 6.91 | | | |
| 3/31/2020 | 5.7 | | | | | 7.07 |
| 6/16/2020 | | | | | 6.97 (D) | |
| 6/17/2020 | | | | 7.2 (D) | | |
| 9/16/2020 | | | | 7.3 | 6.92 | |
| 9/17/2020 | | | | | | 6.99 |
| 9/18/2020 | 6.42 | 7.15 | | | | |
| 9/21/2020 | | | 7.34 | | | |
| 2/10/2021 | | | | 7.29 | | |
| 2/12/2021 | 7.27 | 6.23 | | | | |
| 2/16/2021 | | | | | 7.16 | 7.26 |
| 2/22/2021 | | | 7.27 | | | |
| 3/15/2021 | | | | 7.19 | 7.09 | |
| 3/16/2021 | 5.95 | 7.15 | | | | 7.1 |
| 3/17/2021 | | | 7.33 | | | |
| 8/16/2021 | | | | 7.12 | | |

Time Series

Constituent: pH, Field (SU) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|---------|---------|--------|--------|--------|
| 8/17/2021 | | | | | | 7.1 |
| 8/18/2021 | 6.1 | 6.89 | | | 7.02 | |
| 8/19/2021 | | | 7.38 | | | |
| 2/9/2022 | 6.55 | 7.23 | | | | 7.3 |
| 2/10/2022 | | | 7.54 | 7.22 | 6.99 | |
| 8/3/2022 | 6.23 | 7.13 | 7.09 | 6.93 | 6.84 | |
| 8/4/2022 | | | | | | 7.03 |
| 8/11/2022 | | | | 7.07 | | |
| 1/26/2023 | 6.23 | 7.1 | 6.9 | | | 7.07 |
| 1/27/2023 | | | | 7.25 | | |
| 2/1/2023 | | | | | 6.6 | |

Time Series

Constituent: pH, Field (SU) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------|-------|--------|--------|--------|--------|
| 3/13/2019 | | 6.75 | 7.58 | | 7.4 | 7.78 |
| 3/14/2019 | 6.48 | | | 7.67 | | |
| 4/2/2019 | | 6.7 | | | | |
| 4/3/2019 | 6.14 | | | 7.56 | 7.25 | |
| 4/4/2019 | | | | | | 7.63 |
| 4/8/2019 | | | 7.47 | | | |
| 9/25/2019 | | 6.75 | | | | |
| 9/26/2019 | | | 7.5 | | 7.16 | 7.46 |
| 9/27/2019 | 6.33 | | | 7.57 | | |
| 3/2/2020 | | 6.98 | | | | |
| 3/3/2020 | | | | 7.59 | | |
| 3/4/2020 | 6.29 | | 7.47 | | 7.14 | 8.33 |
| 3/26/2020 | 6.28 | | | 7.57 | | |
| 3/27/2020 | | 6.75 | | | | |
| 3/30/2020 | | | 7.49 | | | |
| 3/31/2020 | | | | | 7.2 | |
| 4/2/2020 | | | | | | 8.11 |
| 9/17/2020 | | 6.78 | | | 7.08 | |
| 9/18/2020 | | | | 7.64 | | 7.51 |
| 9/21/2020 | 6.41 | | 7.65 | | | |
| 2/11/2021 | | 6.93 | | | | |
| 2/12/2021 | 6.36 | | | 7.77 | | |
| 2/16/2021 | | | 7.69 | | 7.27 | 7.96 |
| 3/12/2021 | | | | | | 7.88 |
| 3/15/2021 | | 6.97 | | | | |
| 3/16/2021 | | | | 7.76 | | |
| 3/17/2021 | 6.34 | | 7.66 | | 7.14 | |
| 8/17/2021 | | 7.05 | | | 7.14 | 7.75 |
| 8/18/2021 | 6.28 | | | | | |
| 8/19/2021 | | | 7.61 | 7.69 | | |
| 2/9/2022 | 6.28 | | | 7.82 | 7.32 | |
| 2/10/2022 | | 7.19 | 7.82 | | | 7.96 |
| 8/3/2022 | | | 7.59 | | | 7.4 |
| 8/4/2022 | 6.32 | 6.96 | | 7.66 | 7.08 | |
| 1/26/2023 | 6.13 | 6.95 | 7.6 | 7.74 | 7.14 | |
| 1/27/2023 | | | | | | 7.8 |

Time Series

Constituent: pH, Field (SU) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|--------|-------|------|------|------|
| 3/12/2019 | 7.46 | 7.2 | | | |
| 3/13/2019 | | | 6.16 | 6.86 | 6.37 |
| 4/2/2019 | 7.4 | 6.91 | | | |
| 4/3/2019 | | | 5.96 | 6.77 | 6.19 |
| 9/24/2019 | | 6.86 | | | |
| 9/25/2019 | | | 6.37 | | |
| 9/26/2019 | 7.4 | | | 6.76 | 6.5 |
| 3/2/2020 | | 7.13 | 6.12 | | |
| 3/3/2020 | | | | 6.78 | 6.1 |
| 3/4/2020 | 7.55 | | | | |
| 3/26/2020 | | | 6.14 | | |
| 3/27/2020 | 7.42 | | | 6.82 | |
| 3/30/2020 | | 7.07 | | | 6.06 |
| 9/16/2020 | | 6.88 | | | |
| 9/17/2020 | | | 6.48 | | |
| 9/21/2020 | 7.46 | | | 6.88 | 6.5 |
| 2/10/2021 | 7.54 | | | | |
| 2/15/2021 | | 7.09 | | | 6.77 |
| 2/16/2021 | | | 5.95 | 7 | |
| 3/15/2021 | 7.61 | 7.05 | | | 6.66 |
| 3/16/2021 | | | 5.78 | 6.96 | |
| 8/16/2021 | | 7.08 | | | |
| 8/17/2021 | | | 5.99 | 6.86 | 6.88 |
| 8/18/2021 | 7.16 | | | | |
| 2/8/2022 | | | | | 6.73 |
| 2/9/2022 | | | 6.13 | 7.01 | |
| 2/10/2022 | 7.59 | 7.27 | | | |
| 8/3/2022 | | 6.87 | 5.96 | 6.41 | |
| 8/4/2022 | 7.38 | | | | 6.47 |
| 1/26/2023 | 7.67 | 7.22 | 6.07 | 6.9 | 6.23 |

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|------------|
| 5/19/2016 | <0.005 | <0.005 | <0.005 | | | |
| 5/23/2016 | | | | | | <0.005 |
| 7/11/2016 | <0.005 | <0.005 | | | | |
| 7/12/2016 | | | <0.005 | | | <0.005 |
| 8/30/2016 | <0.005 | <0.005 | <0.005 | | | |
| 9/1/2016 | | | | | | <0.005 |
| 10/19/2016 | <0.005 | <0.005 | <0.005 | | | |
| 10/24/2016 | | | | | | <0.005 |
| 12/6/2016 | <0.005 | <0.005 | <0.005 | | | |
| 12/7/2016 | | | | | | <0.005 |
| 1/24/2017 | <0.005 | <0.005 | <0.005 | | | |
| 1/26/2017 | | | | | | 0.0041 (J) |
| 3/21/2017 | <0.005 | <0.005 | <0.005 | | | |
| 3/22/2017 | | | | | | <0.005 |
| 5/22/2017 | <0.005 | <0.005 | <0.005 | | | |
| 5/24/2017 | | | | | | <0.005 |
| 4/2/2018 | <0.005 | <0.005 | | | | |
| 4/3/2018 | | | <0.005 | | | |
| 4/4/2018 | | | | | | <0.005 |
| 6/4/2018 | <0.005 | <0.005 | <0.005 | | | |
| 6/5/2018 | | | | | | <0.005 |
| 10/1/2018 | <0.005 | <0.005 | <0.005 | | | |
| 10/2/2018 | | | | | | 0.0023 (J) |
| 3/12/2019 | <0.005 | <0.005 | <0.005 | | | |
| 3/13/2019 | | | | | | 0.0015 (J) |
| 4/1/2019 | | | <0.005 | | | |
| 4/2/2019 | <0.005 | <0.005 | | | | |
| 4/3/2019 | | | | | | <0.005 |
| 9/23/2019 | <0.005 | <0.005 | <0.005 | | | |
| 9/27/2019 | | | | | | <0.005 |
| 3/2/2020 | <0.005 | <0.005 | <0.005 | | | |
| 3/3/2020 | | | | | | <0.005 |
| 3/25/2020 | <0.005 | <0.005 | <0.005 | | | |
| 4/1/2020 | | | | | | 0.002 (J) |
| 9/15/2020 | <0.005 | <0.005 | <0.005 | | | |
| 9/16/2020 | | | | <0.005 | <0.005 | <0.005 |
| 11/10/2020 | | | | <0.005 | <0.005 | |
| 12/15/2020 | | | | <0.005 | <0.005 | |
| 1/19/2021 | | | | <0.005 | <0.005 | |
| 2/8/2021 | <0.005 | | | | | |
| 2/9/2021 | | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/15/2021 | | | | | | 0.0028 (J) |
| 3/10/2021 | 0.0047 (J) | | | | <0.005 | |
| 3/11/2021 | | <0.005 | <0.005 | <0.005 | | |
| 3/12/2021 | | | | | | <0.005 |
| 8/11/2021 | <0.005 | | | <0.005 | | |
| 8/12/2021 | | <0.005 | <0.005 | | | |
| 8/13/2021 | | | | | <0.005 | |
| 8/17/2021 | | | | | | <0.005 |
| 2/1/2022 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/9/2022 | | | | | | 0.0031 (J) |
| 8/2/2022 | <0.005 | 0.0014 (J) | <0.005 | <0.005 | <0.005 | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|------------|
| 8/3/2022 | | | | | | 0.0017 (J) |
| 1/23/2023 | | | <0.005 | | | |
| 1/24/2023 | <0.005 | <0.005 | | <0.005 | <0.005 | |
| 1/27/2023 | | | | | | 0.0035 (J) |

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|------------|------------|-------------|--------|------------|------------|
| 5/20/2016 | | | | <0.005 | <0.005 | |
| 5/23/2016 | 0.0106 | <0.005 | <0.005 | | | <0.005 |
| 7/12/2016 | 0.0057 (J) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 9/1/2016 | 0.0057 (J) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 10/20/2016 | | | | <0.005 | <0.005 | <0.005 |
| 10/24/2016 | 0.0021 (J) | <0.005 | <0.005 | | | |
| 12/6/2016 | | | | <0.005 | 0.0024 (J) | 0.0037 (J) |
| 12/7/2016 | 0.0015 (J) | 0.0011 (J) | <0.005 | | | |
| 1/25/2017 | | | | <0.005 | <0.005 | |
| 1/26/2017 | 0.0062 (J) | <0.005 | <0.005 | | | <0.005 |
| 3/21/2017 | | | | <0.005 | <0.005 | |
| 3/22/2017 | 0.0263 | <0.005 | <0.005 | | | <0.005 |
| 5/23/2017 | | | | <0.005 | <0.005 | <0.005 |
| 5/24/2017 | 0.0038 (J) | <0.005 | <0.005 | | | |
| 4/3/2018 | | | | <0.005 | <0.005 | <0.005 |
| 4/4/2018 | 0.021 | <0.005 | <0.005 | | | |
| 6/5/2018 | 0.0062 (J) | | <0.005 | <0.005 | | |
| 6/6/2018 | | <0.005 | | | <0.005 | <0.005 |
| 10/2/2018 | | | | <0.005 | <0.005 | <0.005 |
| 10/3/2018 | 0.009 (J) | <0.005 | | | | |
| 10/5/2018 | | | <0.005 | | | |
| 3/12/2019 | | | | | <0.005 | |
| 3/13/2019 | 0.023 | | <0.005 | <0.005 | | <0.005 |
| 3/14/2019 | | <0.005 | | | | |
| 4/2/2019 | | | | <0.005 | | |
| 4/3/2019 | 0.016 | <0.005 | | | <0.005 | <0.005 |
| 4/5/2019 | | | 0.00018 (J) | | | |
| 9/24/2019 | | | | | <0.005 | |
| 9/25/2019 | | | | <0.005 | | |
| 9/26/2019 | | | <0.005 | | | |
| 9/27/2019 | 0.013 | <0.005 | | | | <0.005 |
| 3/3/2020 | 0.016 | <0.005 | | | <0.005 | |
| 3/4/2020 | | | <0.005 | <0.005 | | <0.005 |
| 3/26/2020 | | <0.005 | | | | |
| 3/27/2020 | | | | <0.005 | <0.005 | |
| 3/30/2020 | | | <0.005 | | | |
| 3/31/2020 | 0.019 | | | | | <0.005 |
| 9/16/2020 | | | | <0.005 | <0.005 | |
| 9/17/2020 | | | | | | <0.005 |
| 9/18/2020 | 0.0042 (J) | <0.005 | | | | |
| 9/21/2020 | | | 0.0016 (J) | | | |
| 2/10/2021 | | | | <0.005 | | |
| 2/12/2021 | 0.0079 (J) | <0.005 | | | | |
| 2/16/2021 | | | | | <0.005 | <0.005 |
| 2/22/2021 | | | <0.005 | | | |
| 3/15/2021 | | | | <0.005 | <0.005 | |
| 3/16/2021 | 0.015 | <0.005 | | | | <0.005 |
| 3/17/2021 | | | <0.005 | | | |
| 8/16/2021 | | | | <0.005 | | |
| 8/17/2021 | | | | | | <0.005 |
| 8/18/2021 | 0.0033 (J) | <0.005 | | | <0.005 | |
| 8/19/2021 | | | <0.005 | | | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|------------|---------|---------|--------|--------|--------|
| 2/9/2022 | 0.0035 (J) | <0.005 | | | | <0.005 |
| 2/10/2022 | | | <0.005 | <0.005 | <0.005 | |
| 8/3/2022 | 0.0057 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 8/4/2022 | | | | | | <0.005 |
| 8/11/2022 | | | | <0.005 | | |
| 1/26/2023 | 0.01 | <0.005 | <0.005 | | | <0.005 |
| 1/27/2023 | | | | <0.005 | | |
| 2/1/2023 | | | | | <0.005 | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|------------|--------|--------|--------|--------|-------------|
| 3/13/2019 | | <0.005 | <0.005 | | <0.005 | <0.005 |
| 3/14/2019 | <0.005 | | | <0.005 | | |
| 4/2/2019 | | <0.005 | | | | |
| 4/3/2019 | 0.007 (J) | | | <0.005 | <0.005 | |
| 4/4/2019 | | | | | | 0.00012 (J) |
| 4/8/2019 | | | <0.005 | | | |
| 9/25/2019 | | <0.005 | | | | |
| 9/26/2019 | | | <0.005 | | <0.005 | <0.005 |
| 9/27/2019 | 0.0013 (J) | | | <0.005 | | |
| 3/2/2020 | | <0.005 | | | | |
| 3/3/2020 | | | | <0.005 | | |
| 3/4/2020 | 0.0044 (J) | | <0.005 | | <0.005 | <0.005 |
| 3/26/2020 | 0.0053 (J) | | | <0.005 | | |
| 3/27/2020 | | <0.005 | | | | |
| 3/30/2020 | | | <0.005 | | | |
| 3/31/2020 | | | | | <0.005 | |
| 4/2/2020 | | | | | | <0.005 |
| 9/17/2020 | | <0.005 | | | <0.005 | |
| 9/18/2020 | | | | <0.005 | | <0.005 |
| 9/21/2020 | 0.0033 (J) | | <0.005 | | | |
| 2/11/2021 | | <0.005 | | | | |
| 2/12/2021 | 0.0021 (J) | | | <0.005 | | |
| 2/16/2021 | | | <0.005 | | <0.005 | <0.005 |
| 3/12/2021 | | | | | | <0.005 |
| 3/15/2021 | | <0.005 | | | | |
| 3/16/2021 | | | | <0.005 | | |
| 3/17/2021 | <0.005 | | <0.005 | | <0.005 | |
| 8/17/2021 | | <0.005 | | | <0.005 | <0.005 |
| 8/18/2021 | 0.0026 (J) | | | | | |
| 8/19/2021 | | | <0.005 | <0.005 | | |
| 2/9/2022 | 0.0036 (J) | | | <0.005 | <0.005 | |
| 2/10/2022 | | <0.005 | <0.005 | | | <0.005 |
| 8/3/2022 | | | <0.005 | | | <0.005 |
| 8/4/2022 | 0.0022 (J) | <0.005 | | <0.005 | <0.005 | |
| 1/26/2023 | 0.0056 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 1/27/2023 | | | | | | <0.005 |

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|--------|--------|------------|--------|------------|
| 3/12/2019 | <0.005 | <0.005 | | | |
| 3/13/2019 | | | 0.0033 (J) | <0.005 | 0.0016 (J) |
| 4/2/2019 | <0.005 | <0.005 | | | |
| 4/3/2019 | | | 0.0027 (J) | <0.005 | <0.005 |
| 9/24/2019 | | <0.005 | | | |
| 9/25/2019 | | | 0.0021 (J) | | |
| 9/26/2019 | <0.005 | | | <0.005 | 0.0014 (J) |
| 3/2/2020 | | <0.005 | 0.0041 (J) | | |
| 3/3/2020 | | | | <0.005 | <0.005 |
| 3/4/2020 | <0.005 | | | | |
| 3/26/2020 | | | 0.0039 (J) | | |
| 3/27/2020 | <0.005 | | | <0.005 | |
| 3/30/2020 | | <0.005 | | | 0.0014 (J) |
| 9/16/2020 | | <0.005 | | | |
| 9/17/2020 | | | 0.0028 (J) | | |
| 9/21/2020 | <0.005 | | | <0.005 | 0.0026 (J) |
| 2/10/2021 | <0.005 | | | | |
| 2/15/2021 | | <0.005 | | | <0.005 |
| 2/16/2021 | | | 0.0035 (J) | <0.005 | |
| 3/15/2021 | <0.005 | <0.005 | | | 0.0021 (J) |
| 3/16/2021 | | | 0.0026 (J) | <0.005 | |
| 8/16/2021 | | <0.005 | | | |
| 8/17/2021 | | | 0.0017 (J) | <0.005 | <0.005 |
| 8/18/2021 | <0.005 | | | | |
| 2/8/2022 | | | | | 0.0015 (J) |
| 2/9/2022 | | | 0.0027 (J) | <0.005 | |
| 2/10/2022 | <0.005 | <0.005 | | | |
| 8/3/2022 | | <0.005 | 0.0032 (J) | <0.005 | |
| 8/4/2022 | <0.005 | | | | <0.005 |
| 1/26/2023 | <0.005 | <0.005 | 0.0045 (J) | <0.005 | <0.005 |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|---------|
| 5/19/2016 | 66.9 | 48.6 | 42.3 | | | |
| 5/23/2016 | | | | | | 175 |
| 7/11/2016 | 41 | 45 | | | | |
| 7/12/2016 | | | 44 | | | 190 |
| 8/30/2016 | 36 | 42 | 40 | | | |
| 9/1/2016 | | | | | | 190 |
| 10/19/2016 | 46 | 44 | 43 | | | |
| 10/24/2016 | | | | | | 190 |
| 12/6/2016 | 59 | 44 | 43 | | | |
| 12/7/2016 | | | | | | 200 |
| 1/24/2017 | 46 | 46 | 48 | | | |
| 1/26/2017 | | | | | | 90 |
| 3/21/2017 | 63 | 46 | 45 | | | |
| 3/22/2017 | | | | | | 170 |
| 5/22/2017 | 77 | 48 | 46 | | | |
| 5/24/2017 | | | | | | 190 |
| 10/3/2017 | 42 | 47 | 48 | | | 200 |
| 6/4/2018 | 71.8 | 47.8 | 46.6 | | | |
| 6/5/2018 | | | | | | 205 |
| 10/1/2018 | 49.1 | 48.1 | 48.6 | | | |
| 10/2/2018 | | | | | | 178 |
| 4/1/2019 | | | 50.4 | | | |
| 4/2/2019 | 84.3 | 48.7 | | | | |
| 4/3/2019 | | | | | | 159 |
| 9/23/2019 | 70.2 | 47.2 | 43.9 | | | |
| 9/27/2019 | | | | | | 181 |
| 3/25/2020 | 85.9 | 46.3 | 50.5 | | | |
| 4/1/2020 | | | | | | 59 |
| 6/16/2020 | 88.2 | | 49.5 | | | |
| 9/15/2020 | 47.3 | 51.5 | 44.7 | | | |
| 9/16/2020 | | | | 43 | 6.9 | 169 |
| 11/10/2020 | | | | 39 | 6.3 | |
| 12/15/2020 | | | | 38.8 | 6.7 | |
| 1/19/2021 | | | | 37.3 | 7.4 | |
| 3/10/2021 | 49.6 | | | | <1 | |
| 3/11/2021 | | 52.9 | 50.4 | 38.6 | | |
| 3/12/2021 | | | | | | 120 |
| 8/11/2021 | 48.9 | | | 30.5 | | |
| 8/12/2021 | | 47.4 | 38.6 | | | |
| 8/13/2021 | | | | | 56.1 | |
| 8/17/2021 | | | | | | 156 |
| 2/1/2022 | 43.7 | 67.1 | 46 | 37.5 | 56.3 | |
| 2/9/2022 | | | | | | 49.2 |
| 8/2/2022 | 58.1 | 86.9 | 43.5 | 37 | 13.2 | |
| 8/3/2022 | | | | | | 119 |
| 1/23/2023 | | | 39.5 | | | |
| 1/24/2023 | 48.3 | 79.7 | | 34.7 | 10.1 | |
| 1/27/2023 | | | | | | 37.3 |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|---------|---------|---------|--------|--------|--------|
| 5/20/2016 | | | | 96 | 219 | |
| 5/23/2016 | 260 | 288 | 215 | | | 207 |
| 7/12/2016 | 390 | 320 | 210 | 100 | 230 | 230 |
| 9/1/2016 | 240 | 300 | 190 | 100 | 230 | 230 |
| 10/20/2016 | | | | 110 | 240 | 240 |
| 10/24/2016 | 370 | 270 | 180 | | | |
| 12/6/2016 | | | | 110 | 250 | 240 |
| 12/7/2016 | 260 | 280 | 120 | | | |
| 1/25/2017 | | | | 110 | 260 | |
| 1/26/2017 | 230 | 260 | 83 | | | 270 |
| 3/21/2017 | | | | 110 | 240 | |
| 3/22/2017 | 330 | 220 | 100 | | | 240 |
| 5/23/2017 | | | | 110 | 270 | 240 |
| 5/24/2017 | 230 | 210 | 110 | | | |
| 10/3/2017 | 230 | 190 | 67 | 120 | 230 | 240 |
| 6/5/2018 | 204 | | 187 | 117 | | |
| 6/6/2018 | | 162 | | | 190 | 214 |
| 10/2/2018 | | | | 120 | 193 | 218 |
| 10/3/2018 | 233 | 191 | | | | |
| 10/5/2018 | | | 78.3 | | | |
| 4/2/2019 | | | | 127 | | |
| 4/3/2019 | 298 | 176 | | | 194 | 214 |
| 4/5/2019 | | | 105 | | | |
| 9/24/2019 | | | | | 133 | |
| 9/25/2019 | | | | 109 | | |
| 9/26/2019 | | | 444 | | | |
| 9/27/2019 | <10 | 198 | | | | 214 |
| 3/26/2020 | | 182 | | | | |
| 3/27/2020 | | | | 109 | 173 | |
| 3/30/2020 | | | 393 | | | |
| 3/31/2020 | 283 | | | | | 185 |
| 6/16/2020 | | | | | 157 | |
| 6/17/2020 | | | | 102 | | |
| 9/16/2020 | | | | 109 | 194 | |
| 9/17/2020 | | | | | | 209 |
| 9/18/2020 | 272 | 266 | | | | |
| 9/21/2020 | | | 359 | | | |
| 3/15/2021 | | | | 107 | 272 | |
| 3/16/2021 | 291 | 248 | | | | 211 |
| 3/17/2021 | | | 384 | | | |
| 8/16/2021 | | | | 98.1 | | |
| 8/17/2021 | | | | | | 207 |
| 8/18/2021 | 237 | 226 | | | 245 | |
| 8/19/2021 | | | 339 | | | |
| 2/9/2022 | 276 | 252 | | | | 224 |
| 2/10/2022 | | | 371 | 97.5 | 224 | |
| 8/3/2022 | 254 | 236 | 451 | 105 | 241 | |
| 8/4/2022 | | | | | | 243 |
| 8/11/2022 | | | | 121 | | |
| 1/26/2023 | 209 | 228 | 495 | | | 217 |
| 1/27/2023 | | | | 119 | | |
| 2/1/2023 | | | | | 179 | |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------|-------|--------|----------|--------|--------|
| 4/2/2019 | | 122 | | | | |
| 4/3/2019 | 105 | | | 53 | 131 | |
| 4/4/2019 | | | | | | 11.8 |
| 4/8/2019 | | | 97.3 | | | |
| 9/25/2019 | | 112 | | | | |
| 9/26/2019 | | | 91 | | 189 | 15.6 |
| 9/27/2019 | 170 | | | 48 | | |
| 3/26/2020 | 310 | | | 32.3 | | |
| 3/27/2020 | | 114 | | | | |
| 3/30/2020 | | | 84.9 | | | |
| 3/31/2020 | | | | | 129 | |
| 4/2/2020 | | | | | | 13.3 |
| 9/17/2020 | | 110 | | | 174 | |
| 9/18/2020 | | | | 27.4 | | 7.5 |
| 9/21/2020 | 305 | | 114 | | | |
| 3/12/2021 | | | | | | 7.4 |
| 3/15/2021 | | 109 | | | | |
| 3/16/2021 | | | | 9.4 | | |
| 3/17/2021 | 260 | | 137 | | 212 | |
| 8/17/2021 | | 98.6 | | | 194 | 8.2 |
| 8/18/2021 | 219 | | | | | |
| 8/19/2021 | | | 130 | 4.1 | | |
| 2/9/2022 | 221 | | | 1.7 | 224 | |
| 2/10/2022 | | 95.9 | 127 | | | 13.2 |
| 8/3/2022 | | | 135 | | | 9.5 |
| 8/4/2022 | 412 | 110 | | 0.97 (J) | 239 | |
| 1/26/2023 | 214 | 109 | 152 | 0.59 (J) | 240 | |
| 1/27/2023 | | | | | | 9.1 |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|--------|-------|------|------|------|
| 4/2/2019 | 67.7 | 151 | | | |
| 4/3/2019 | | | 218 | 228 | 75.3 |
| 9/24/2019 | | 154 | | | |
| 9/25/2019 | | | 134 | | |
| 9/26/2019 | 96.2 | | | 225 | 129 |
| 3/26/2020 | | | 176 | | |
| 3/27/2020 | 36 | | | 204 | |
| 3/30/2020 | | 130 | | | 46.2 |
| 9/16/2020 | | 143 | | | |
| 9/17/2020 | | | 153 | | |
| 9/21/2020 | 84.2 | | | 221 | 114 |
| 3/15/2021 | 50.1 | 148 | | | 92.1 |
| 3/16/2021 | | | 162 | 189 | |
| 8/16/2021 | | 136 | | | |
| 8/17/2021 | | | 154 | 194 | 105 |
| 8/18/2021 | 82.1 | | | | |
| 2/8/2022 | | | | | 80.4 |
| 2/9/2022 | | | 123 | 197 | |
| 2/10/2022 | 32.5 | 141 | | | |
| 8/3/2022 | | 140 | 135 | 190 | |
| 8/4/2022 | 80.5 | | | | 76 |
| 1/26/2023 | 40.8 | 161 | 137 | 203 | 26 |

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|---------|
| 5/19/2016 | <0.001 | <0.001 | <0.001 | | | |
| 5/23/2016 | | | | | | <0.001 |
| 7/11/2016 | <0.001 | <0.001 | | | | |
| 7/12/2016 | | | <0.001 | | | <0.001 |
| 8/30/2016 | <0.001 | <0.001 | <0.001 | | | |
| 9/1/2016 | | | | | | <0.001 |
| 10/19/2016 | <0.001 | <0.001 | <0.001 | | | |
| 10/24/2016 | | | | | | <0.001 |
| 12/6/2016 | <0.001 | <0.001 | <0.001 | | | |
| 12/7/2016 | | | | | | <0.001 |
| 1/24/2017 | <0.001 | <0.001 | <0.001 | | | |
| 1/26/2017 | | | | | | <0.001 |
| 3/21/2017 | <0.001 | 3E-05 (J) | <0.001 | | | |
| 3/22/2017 | | | | | | <0.001 |
| 5/22/2017 | <0.001 | <0.001 | <0.001 | | | |
| 5/24/2017 | | | | | | <0.001 |
| 4/2/2018 | <0.001 | <0.001 | | | | |
| 4/3/2018 | | | <0.001 | | | |
| 4/4/2018 | | | | | | <0.001 |
| 6/4/2018 | <0.001 | <0.001 | <0.001 | | | |
| 6/5/2018 | | | | | | <0.001 |
| 10/1/2018 | <0.001 | <0.001 | <0.001 | | | |
| 10/2/2018 | | | | | | <0.001 |
| 3/12/2019 | <0.001 | <0.001 | <0.001 | | | |
| 3/13/2019 | | | | | | <0.001 |
| 4/1/2019 | | | <0.001 | | | |
| 4/2/2019 | <0.001 | <0.001 | | | | |
| 4/3/2019 | | | | | | <0.001 |
| 9/23/2019 | <0.001 | <0.001 | <0.001 | | | |
| 9/27/2019 | | | | | | <0.001 |
| 3/2/2020 | <0.001 | <0.001 | <0.001 | | | |
| 3/3/2020 | | | | | | <0.001 |
| 3/25/2020 | <0.001 | <0.001 | <0.001 | | | |
| 4/1/2020 | | | | | | <0.001 |
| 9/15/2020 | <0.001 | <0.001 | <0.001 | | | |
| 9/16/2020 | | | | <0.001 | <0.001 | <0.001 |
| 11/10/2020 | | | | <0.001 | <0.001 | |
| 12/15/2020 | | | | <0.001 | <0.001 | |
| 1/19/2021 | | | | <0.001 | <0.001 | |
| 2/8/2021 | <0.001 | | | | | |
| 2/9/2021 | | <0.001 | <0.001 | <0.001 | <0.001 | |
| 2/15/2021 | | | | | | <0.001 |
| 3/10/2021 | <0.001 | | | | <0.001 | |
| 3/11/2021 | | <0.001 | <0.001 | <0.001 | | |
| 3/12/2021 | | | | | | <0.001 |
| 8/11/2021 | <0.001 | | | <0.001 | | |
| 8/12/2021 | | <0.001 | <0.001 | | | |
| 8/13/2021 | | | | | <0.001 | |
| 8/17/2021 | | | | | | <0.001 |
| 2/1/2022 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 2/9/2022 | | | | | | <0.001 |
| 8/2/2022 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|---------|
| 8/3/2022 | | | | | | <0.001 |
| 1/23/2023 | | | <0.001 | | | |
| 1/24/2023 | <0.001 | <0.001 | | <0.001 | <0.001 | |
| 1/27/2023 | | | | | | <0.001 |

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/14/2023 12:20 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-----------|-------------|--------------|--------|-------------|--------|
| 5/20/2016 | | | | <0.001 | <0.001 | |
| 5/23/2016 | <0.001 | <0.001 | 0.000378 (J) | | | <0.001 |
| 7/12/2016 | 8E-05 (J) | 0.0002 (J) | 0.0004 (J) | <0.001 | 7E-05 (J) | <0.001 |
| 9/1/2016 | <0.001 | <0.001 | 0.0004 (J) | <0.001 | <0.001 | <0.001 |
| 10/20/2016 | | | | <0.001 | <0.001 | <0.001 |
| 10/24/2016 | <0.001 | <0.001 | 0.0005 (J) | | | |
| 12/6/2016 | | | | <0.001 | <0.001 | <0.001 |
| 12/7/2016 | <0.001 | <0.001 | 0.0004 (J) | | | |
| 1/25/2017 | | | | <0.001 | <0.001 | |
| 1/26/2017 | <0.001 | <0.001 | 0.0004 (J) | | | <0.001 |
| 3/21/2017 | | | | <0.001 | 9E-05 (J) | |
| 3/22/2017 | <0.001 | 0.0001 (J) | 0.0004 (J) | | | <0.001 |
| 5/23/2017 | | | | <0.001 | 8E-05 (J) | <0.001 |
| 5/24/2017 | 8E-05 (J) | 9E-05 (J) | 0.0003 (J) | | | |
| 4/3/2018 | | | | <0.001 | <0.001 | <0.001 |
| 4/4/2018 | <0.001 | <0.001 | 0.00032 (J) | | | |
| 6/5/2018 | <0.001 | | 0.00035 (J) | <0.001 | | |
| 6/6/2018 | | <0.001 | | | <0.001 | <0.001 |
| 10/2/2018 | | | | <0.001 | <0.001 | <0.001 |
| 10/3/2018 | <0.001 | <0.001 | | | | |
| 10/5/2018 | | | 0.00025 (J) | | | |
| 3/12/2019 | | | | | <0.001 | |
| 3/13/2019 | <0.001 | | 0.00039 (J) | <0.001 | | <0.001 |
| 3/14/2019 | | <0.001 | | | | |
| 4/2/2019 | | | | <0.001 | | |
| 4/3/2019 | <0.001 | <0.001 | | | <0.001 | <0.001 |
| 4/5/2019 | | | 0.00034 (J) | | | |
| 9/24/2019 | | | | | 0.00011 (J) | |
| 9/25/2019 | | | | <0.001 | | |
| 9/26/2019 | | | 0.00039 (J) | | | |
| 9/27/2019 | <0.001 | 8.8E-05 (J) | | | | <0.001 |
| 3/3/2020 | <0.001 | 6.6E-05 (J) | | | 6.1E-05 (J) | |
| 3/4/2020 | | | 0.00056 (J) | <0.001 | | <0.001 |
| 3/26/2020 | | 8E-05 (J) | | | | |
| 3/27/2020 | | | | <0.001 | 7.7E-05 (J) | |
| 3/30/2020 | | | 0.00048 (J) | | | |
| 3/31/2020 | <0.001 | | | | | <0.001 |
| 9/16/2020 | | | | <0.001 | <0.001 | |
| 9/17/2020 | | | | | | <0.001 |
| 9/18/2020 | <0.001 | <0.001 | | | | |
| 9/21/2020 | | | 0.00036 (J) | | | |
| 2/10/2021 | | | | <0.001 | | |
| 2/12/2021 | <0.001 | <0.001 | | | | |
| 2/16/2021 | | | | | <0.001 | <0.001 |
| 2/22/2021 | | | 0.0003 (J) | | | |
| 3/15/2021 | | | | <0.001 | <0.001 | |
| 3/16/2021 | <0.001 | <0.001 | | | | <0.001 |
| 3/17/2021 | | | 0.00037 (J) | | | |
| 8/16/2021 | | | | <0.001 | | |
| 8/17/2021 | | | | | | <0.001 |
| 8/18/2021 | <0.001 | <0.001 | | | <0.001 | |
| 8/19/2021 | | | 0.0002 (J) | | | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|---------|-------------|--------|-------------|--------|
| 2/9/2022 | <0.001 | <0.001 | | | | <0.001 |
| 2/10/2022 | | | <0.001 | <0.001 | <0.001 | |
| 8/3/2022 | <0.001 | <0.001 | <0.001 | <0.001 | 0.00018 (J) | |
| 8/4/2022 | | | | | | <0.001 |
| 8/11/2022 | | | | <0.001 | | |
| 1/26/2023 | <0.001 | <0.001 | 0.00031 (J) | | | <0.001 |
| 1/27/2023 | | | | <0.001 | | |
| 2/1/2023 | | | | | <0.001 | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------------|--------|--------|--------|--------|--------|
| 3/13/2019 | | <0.001 | <0.001 | | <0.001 | <0.001 |
| 3/14/2019 | <0.001 | | | <0.001 | | |
| 4/2/2019 | | <0.001 | | | | |
| 4/3/2019 | <0.001 | | | <0.001 | <0.001 | |
| 4/4/2019 | | | | | | <0.001 |
| 4/8/2019 | | | <0.001 | | | |
| 9/25/2019 | | <0.001 | | | | |
| 9/26/2019 | | | <0.001 | | <0.001 | <0.001 |
| 9/27/2019 | 0.00027 (J) | | | <0.001 | | |
| 3/2/2020 | | <0.001 | | | | |
| 3/3/2020 | | | | <0.001 | | |
| 3/4/2020 | 0.00026 (J) | | <0.001 | | <0.001 | <0.001 |
| 3/26/2020 | 0.00026 (J) | | | <0.001 | | |
| 3/27/2020 | | <0.001 | | | | |
| 3/30/2020 | | | <0.001 | | | |
| 3/31/2020 | | | | | <0.001 | |
| 4/2/2020 | | | | | | <0.001 |
| 9/17/2020 | | <0.001 | | | <0.001 | |
| 9/18/2020 | | | | <0.001 | | <0.001 |
| 9/21/2020 | 0.0003 (J) | | <0.001 | | | |
| 2/11/2021 | | <0.001 | | | | |
| 2/12/2021 | 0.00019 (J) | | | <0.001 | | |
| 2/16/2021 | | | <0.001 | | <0.001 | <0.001 |
| 3/12/2021 | | | | | | <0.001 |
| 3/15/2021 | | <0.001 | | | | |
| 3/16/2021 | | | | <0.001 | | |
| 3/17/2021 | 0.00026 (J) | | <0.001 | | <0.001 | |
| 8/17/2021 | | <0.001 | | | <0.001 | <0.001 |
| 8/18/2021 | 0.00023 (J) | | | | | |
| 8/19/2021 | | | <0.001 | <0.001 | | |
| 2/9/2022 | <0.001 | | | <0.001 | <0.001 | |
| 2/10/2022 | | <0.001 | <0.001 | | | <0.001 |
| 8/3/2022 | | | <0.001 | | | <0.001 |
| 8/4/2022 | 0.00026 (J) | <0.001 | | <0.001 | <0.001 | |
| 1/26/2023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 1/27/2023 | | | | | | <0.001 |

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/14/2023 12:20 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|-------------|-------------|--------|-------------|--------|
| 3/12/2019 | <0.001 | <0.001 | | | |
| 3/13/2019 | | | <0.001 | <0.001 | <0.001 |
| 4/2/2019 | <0.001 | <0.001 | | | |
| 4/3/2019 | | | <0.001 | <0.001 | <0.001 |
| 9/24/2019 | | 6.4E-05 (J) | | | |
| 9/25/2019 | | | <0.001 | | |
| 9/26/2019 | <0.001 | | | <0.001 | <0.001 |
| 3/2/2020 | | <0.001 | <0.001 | | |
| 3/3/2020 | | | | 8.2E-05 (J) | <0.001 |
| 3/4/2020 | 9.2E-05 (J) | | | | |
| 3/26/2020 | | | <0.001 | | |
| 3/27/2020 | <0.001 | | | <0.001 | |
| 3/30/2020 | | <0.001 | | | <0.001 |
| 9/16/2020 | | <0.001 | | | |
| 9/17/2020 | | | <0.001 | | |
| 9/21/2020 | <0.001 | | | <0.001 | <0.001 |
| 2/10/2021 | <0.001 | | | | |
| 2/15/2021 | | <0.001 | | | <0.001 |
| 2/16/2021 | | | <0.001 | <0.001 | |
| 3/15/2021 | <0.001 | <0.001 | | | <0.001 |
| 3/16/2021 | | | <0.001 | <0.001 | |
| 8/16/2021 | | <0.001 | | | |
| 8/17/2021 | | | <0.001 | <0.001 | <0.001 |
| 8/18/2021 | <0.001 | | | | |
| 2/8/2022 | | | | | <0.001 |
| 2/9/2022 | | | <0.001 | <0.001 | |
| 2/10/2022 | <0.001 | <0.001 | | | |
| 8/3/2022 | | <0.001 | <0.001 | <0.001 | |
| 8/4/2022 | <0.001 | | | | <0.001 |
| 1/26/2023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/14/2023 12:20 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|----------|
| 5/19/2016 | 421 | 143 | 267 | | | |
| 5/23/2016 | | | | | | 629 |
| 7/11/2016 | 363 | 125 | | | | |
| 7/12/2016 | | | 249 | | | 661 |
| 8/30/2016 | 330 | 168 | 254 | | | |
| 9/1/2016 | | | | | | 769 |
| 10/19/2016 | 380 | 176 | 357 | | | |
| 10/24/2016 | | | | | | 643 |
| 12/6/2016 | 377 | 145 | 285 | | | |
| 12/7/2016 | | | | | | 697 |
| 1/24/2017 | 342 | 129 | 300 | | | |
| 1/26/2017 | | | | | | 368 |
| 3/21/2017 | 340 | 103 | 288 | | | |
| 3/22/2017 | | | | | | 683 |
| 5/22/2017 | 338 | 92 | 263 | | | |
| 5/24/2017 | | | | | | 696 |
| 10/3/2017 | 343 | 127 | 300 | | | 746 |
| 6/4/2018 | 415 | 140 | 266 | | | |
| 6/5/2018 | | | | | | 679 |
| 10/1/2018 | 354 | 135 | 291 | | | |
| 10/2/2018 | | | | | | 572 |
| 4/1/2019 | | | 284 | | | |
| 4/2/2019 | 452 | 133 | | | | |
| 4/3/2019 | | | | | | 525 |
| 9/23/2019 | 442 | 129 | 268 | | | |
| 9/27/2019 | | | | | | 624 |
| 3/25/2020 | 496 | 138 | 284 | | | |
| 4/1/2020 | | | | | | 290 |
| 6/16/2020 | 632 | | 448 | | | |
| 9/15/2020 | 265 | 124 | 258 | | | |
| 9/16/2020 | | | | 272 | 270 | 490 |
| 11/10/2020 | | | | 307 | 287 | |
| 12/15/2020 | | | | 289 | 295 | |
| 1/19/2021 | | | | 270 | 278 | |
| 3/10/2021 | 348 | | | | 289 | |
| 3/11/2021 | | 169 | 267 | 279 | | |
| 3/12/2021 | | | | | | 490 (H1) |
| 8/11/2021 | 366 | | | 277 | | |
| 8/12/2021 | | 118 | 265 | | | |
| 8/13/2021 | | | | | 436 | |
| 8/17/2021 | | | | | | 496 |
| 2/1/2022 | 270 | 156 | 350 | 156 | 444 | |
| 2/9/2022 | | | | | | 250 |
| 8/2/2022 | 400 | 196 | 287 | 278 | 311 | |
| 8/3/2022 | | | | | | 433 |
| 1/23/2023 | | | 293 | | | |
| 1/24/2023 | 369 | 164 | | 271 | 363 | |
| 1/27/2023 | | | | | | 188 |

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/14/2023 12:20 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|---------|---------|---------|--------|--------|--------|
| 5/20/2016 | | | | 427 | 711 | |
| 5/23/2016 | 564 | 1060 | 683 | | | 984 |
| 7/12/2016 | 627 | 909 | 563 | 410 | 704 | 887 |
| 9/1/2016 | 656 | 1480 | 702 | 484 | 763 | 956 |
| 10/20/2016 | | | | 393 | 644 | 642 |
| 10/24/2016 | 836 | 868 | 647 | | | |
| 12/6/2016 | | | | 492 | 733 | 899 |
| 12/7/2016 | 748 | 811 | 465 | | | |
| 1/25/2017 | | | | 461 | 744 | |
| 1/26/2017 | 571 | 846 | 411 | | | 869 |
| 3/21/2017 | | | | 415 | 818 | |
| 3/22/2017 | 597 | 804 | 427 | | | 936 |
| 5/23/2017 | | | | 450 | 765 | 939 |
| 5/24/2017 | 566 | 803 | 377 | | | |
| 10/3/2017 | 443 | 608 | 268 | 464 | 812 | 1040 |
| 6/5/2018 | 489 | | 528 | 459 | | |
| 6/6/2018 | | 535 | | | 611 | 810 |
| 10/2/2018 | | | | 426 | 597 | 693 |
| 10/3/2018 | 449 | 607 | | | | |
| 10/5/2018 | | | 322 | | | |
| 4/2/2019 | | | | 428 | | |
| 4/3/2019 | 483 | 462 | | | 543 | 673 |
| 4/5/2019 | | | 331 | | | |
| 9/24/2019 | | | | | 457 | |
| 9/25/2019 | | | | 503 | | |
| 9/26/2019 | | | 1010 | | | |
| 9/27/2019 | 528 | 653 | | | | 730 |
| 3/26/2020 | | 533 | | | | |
| 3/27/2020 | | | | 413 | 541 | |
| 3/30/2020 | | | 895 | | | |
| 3/31/2020 | 565 | | | | | 1010 |
| 6/16/2020 | | | | | 573 | |
| 6/17/2020 | | | | 423 | | |
| 9/16/2020 | | | | 392 | 552 | |
| 9/17/2020 | | | | | | 680 |
| 9/18/2020 | 626 | 704 | | | | |
| 9/21/2020 | | | 732 | | | |
| 3/15/2021 | | | | 370 | 614 | |
| 3/16/2021 | 558 | 614 | | | | 672 |
| 3/17/2021 | | | 716 | | | |
| 8/16/2021 | | | | 407 | | |
| 8/17/2021 | | | | | | 704 |
| 8/18/2021 | 566 | 600 | | | 620 | |
| 8/19/2021 | | | 726 | | | |
| 2/9/2022 | 544 | 678 | | | | 756 |
| 2/10/2022 | | | 814 | 414 | 578 | |
| 8/3/2022 | 572 | 650 | 958 | 441 | 648 | |
| 8/4/2022 | | | | | | 760 |
| 8/11/2022 | | | | 445 | | |
| 1/26/2023 | 429 | 624 | 962 | | | 745 |
| 1/27/2023 | | | | 473 | | |
| 2/1/2023 | | | | | 528 | |

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/14/2023 12:20 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------|-------|--------|--------|--------|--------|
| 4/2/2019 | | 435 | | | | |
| 4/3/2019 | 310 | | | 15 (J) | 493 | |
| 4/4/2019 | | | | | | 203 |
| 4/8/2019 | | | 323 | | | |
| 9/25/2019 | | 461 | | | | |
| 9/26/2019 | | | 360 | | 643 | 265 |
| 9/27/2019 | 442 | | | 409 | | |
| 3/26/2020 | 626 | | | 385 | | |
| 3/27/2020 | | 429 | | | | |
| 3/30/2020 | | | 280 | | | |
| 3/31/2020 | | | | | 623 | |
| 4/2/2020 | | | | | | 224 |
| 9/17/2020 | | 460 | | | 732 | |
| 9/18/2020 | | | | 382 | | 211 |
| 9/21/2020 | 608 | | 391 | | | |
| 3/12/2021 | | | | | | 215 |
| 3/15/2021 | | 406 | | | | |
| 3/16/2021 | | | | 347 | | |
| 3/17/2021 | 543 | | 420 | | 738 | |
| 8/17/2021 | | 437 | | | 746 | 239 |
| 8/18/2021 | 464 | | | | | |
| 8/19/2021 | | | 420 | 373 | | |
| 2/9/2022 | 503 | | | 364 | 734 | |
| 2/10/2022 | | 459 | 412 | | | 242 |
| 8/3/2022 | | | 415 | | | 230 |
| 8/4/2022 | 762 | 431 | | 302 | 788 | |
| 1/26/2023 | 490 | 482 | 412 | 346 | 741 | |
| 1/27/2023 | | | | | | 255 |

Time Series

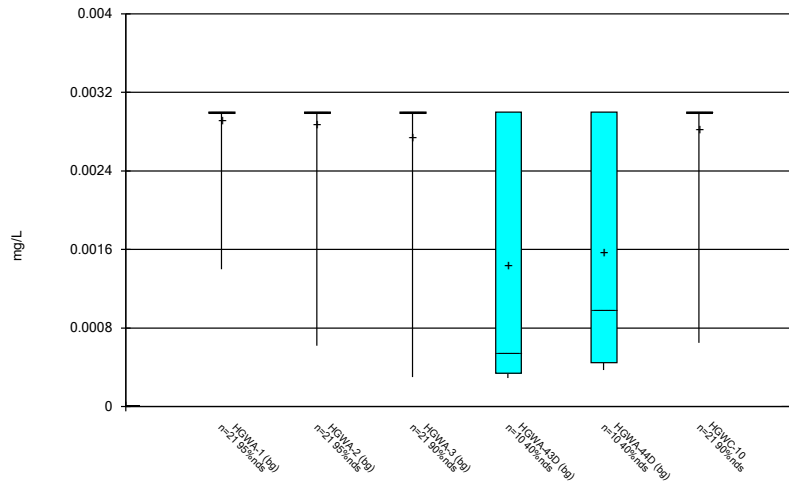
Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/14/2023 12:20 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|--------|-------|------|------|------|
| 4/2/2019 | 350 | 548 | | | |
| 4/3/2019 | | | 396 | 437 | 213 |
| 9/24/2019 | | 603 | | | |
| 9/25/2019 | | | 460 | | |
| 9/26/2019 | 418 | | | 735 | 383 |
| 3/26/2020 | | | 385 | | |
| 3/27/2020 | 287 | | | 676 | |
| 3/30/2020 | | 552 | | | 142 |
| 9/16/2020 | | 547 | | | |
| 9/17/2020 | | | 486 | | |
| 9/21/2020 | 393 | | | 656 | 326 |
| 3/15/2021 | 293 | 555 | | | 293 |
| 3/16/2021 | | | 333 | 600 | |
| 8/16/2021 | | 512 | | | |
| 8/17/2021 | | | 339 | 656 | 344 |
| 8/18/2021 | 396 | | | | |
| 2/8/2022 | | | | | 290 |
| 2/9/2022 | | | 314 | 652 | |
| 2/10/2022 | 299 | 508 | | | |
| 8/3/2022 | | 538 | 391 | 666 | |
| 8/4/2022 | 378 | | | | 246 |
| 1/26/2023 | 349 | 632 | 363 | 646 | 89 |

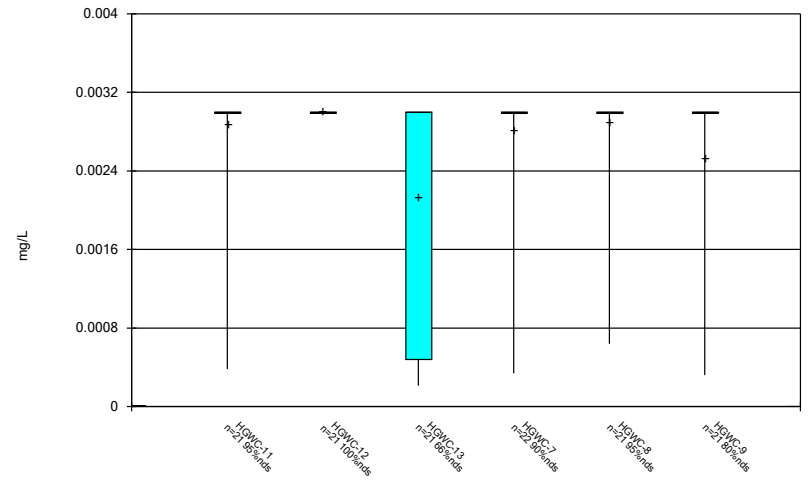
FIGURE B.

Box & Whiskers Plot



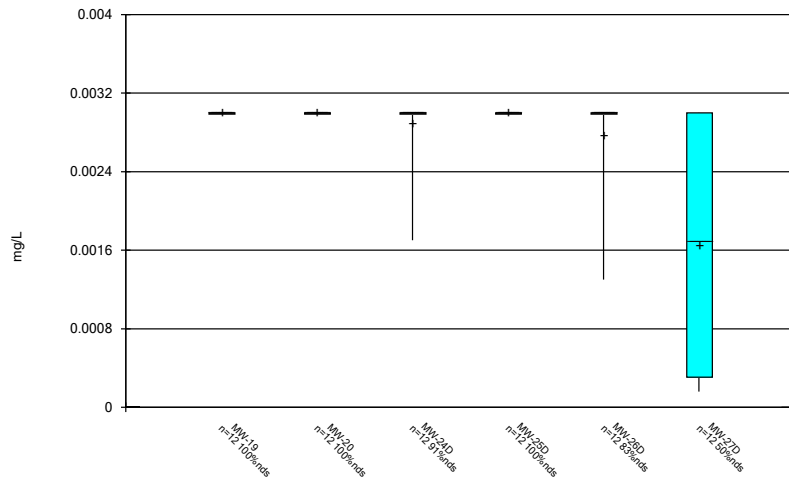
Constituent: Antimony Analysis Run 4/14/2023 12:21 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



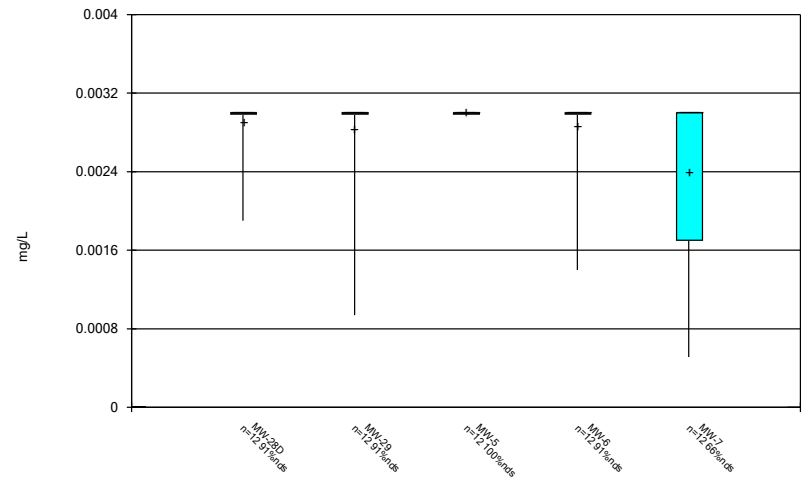
Constituent: Antimony Analysis Run 4/14/2023 12:21 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



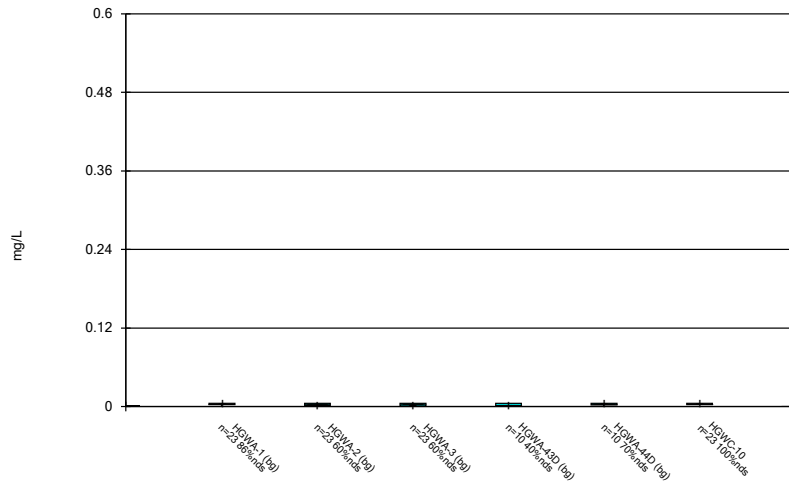
Constituent: Antimony Analysis Run 4/14/2023 12:21 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



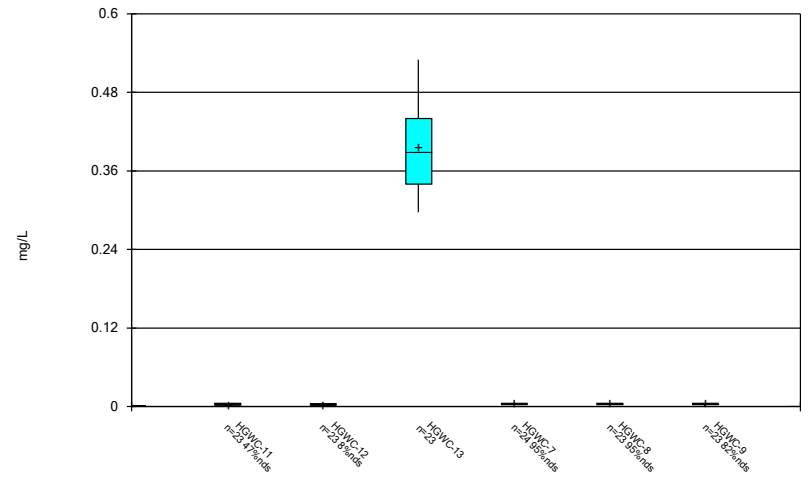
Constituent: Antimony Analysis Run 4/14/2023 12:21 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



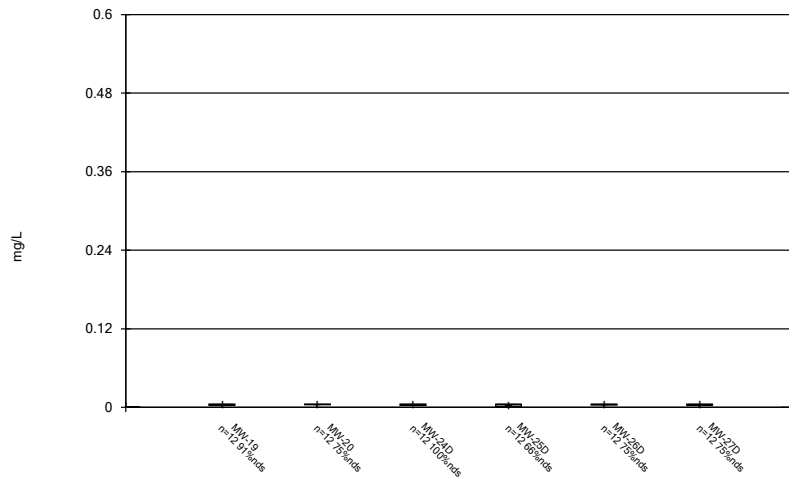
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



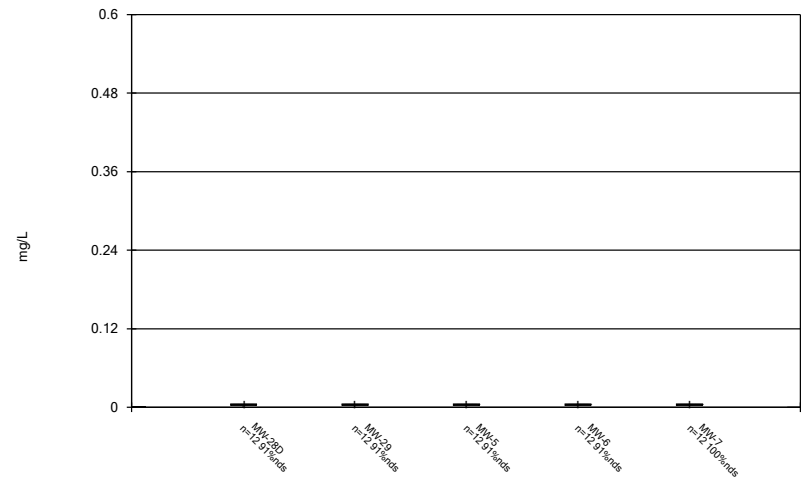
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



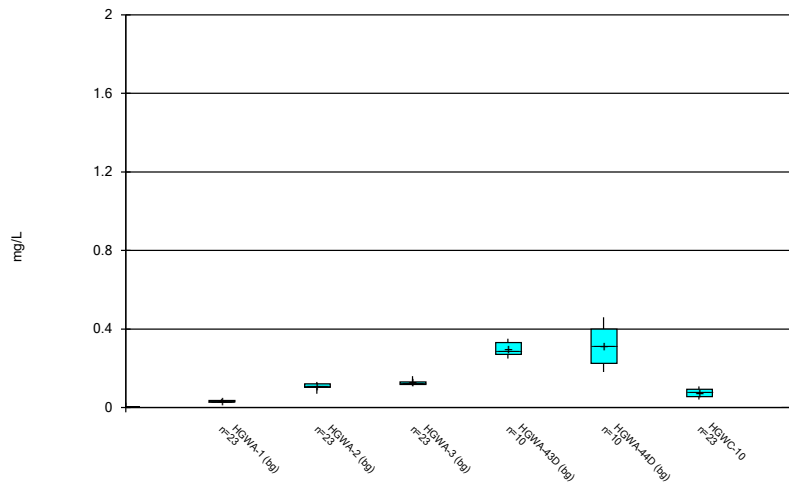
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



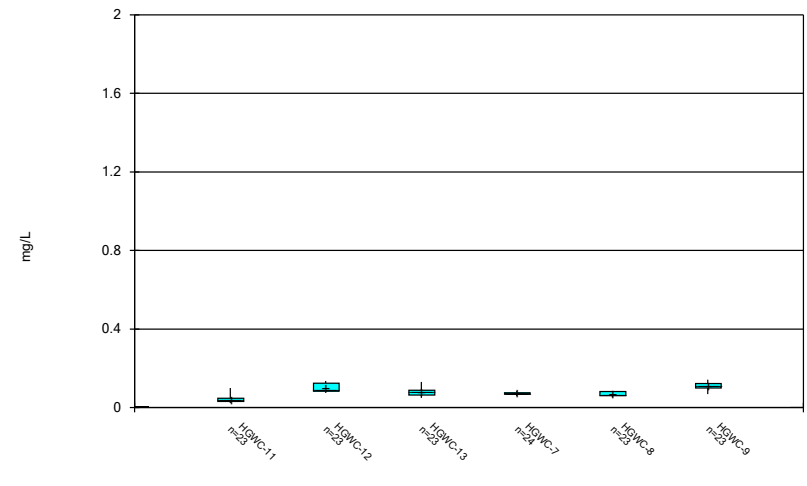
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



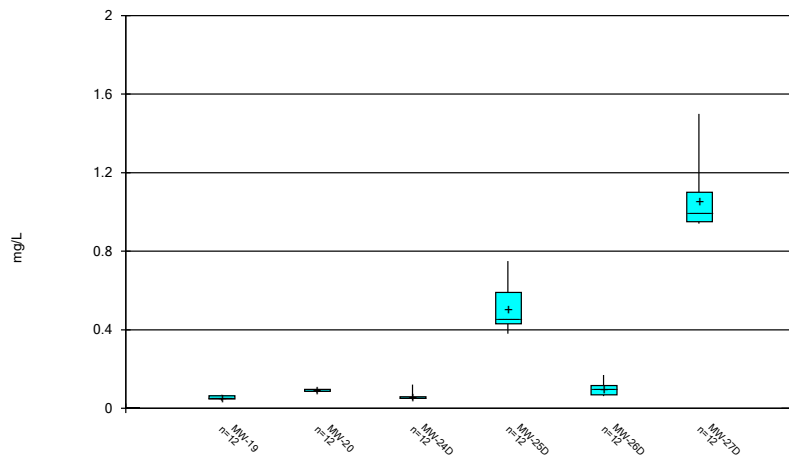
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



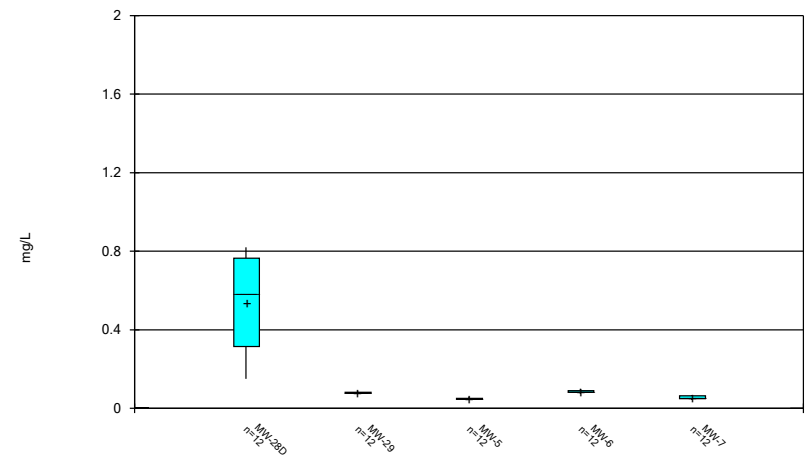
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



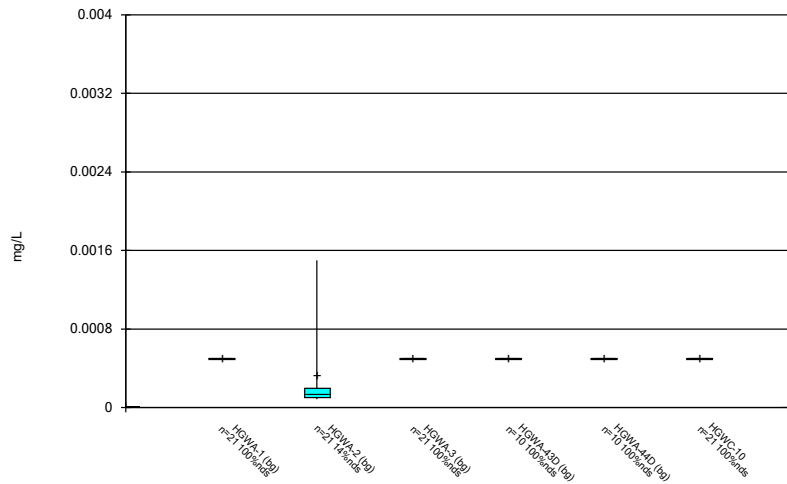
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



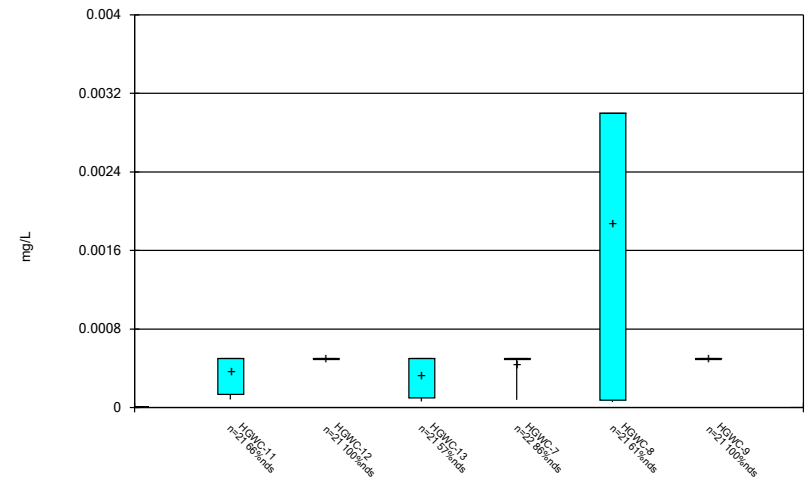
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



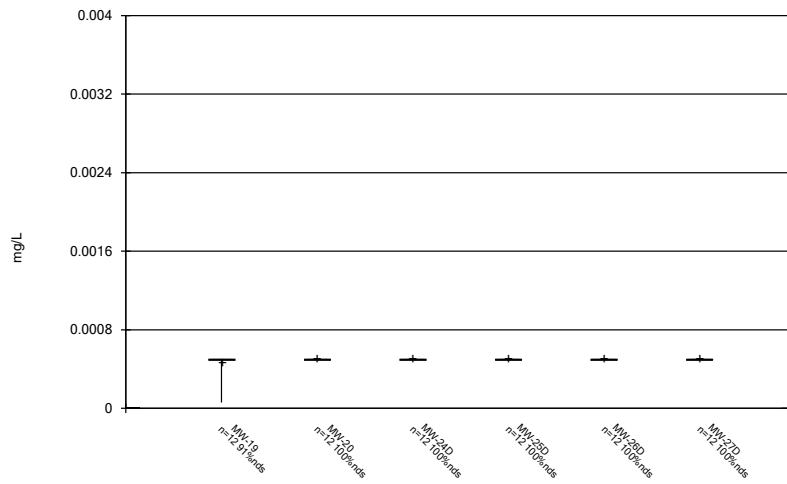
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



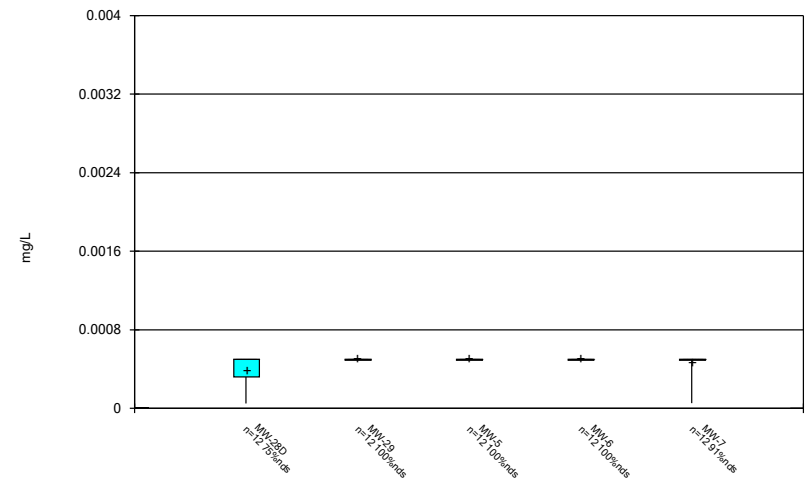
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



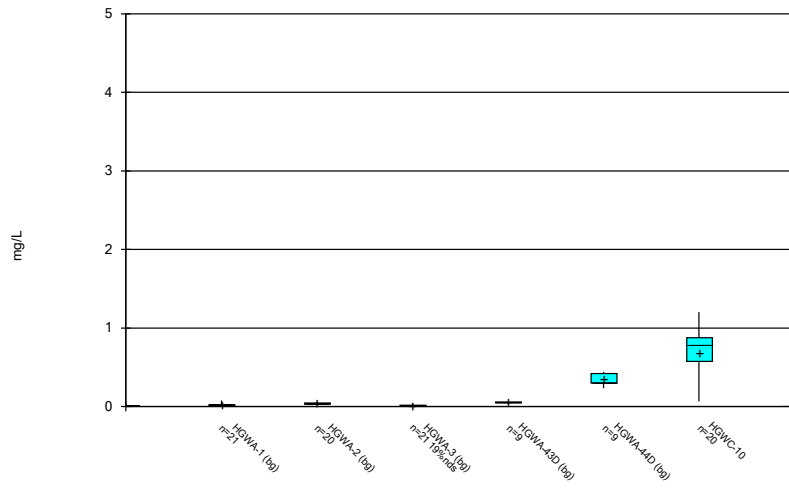
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



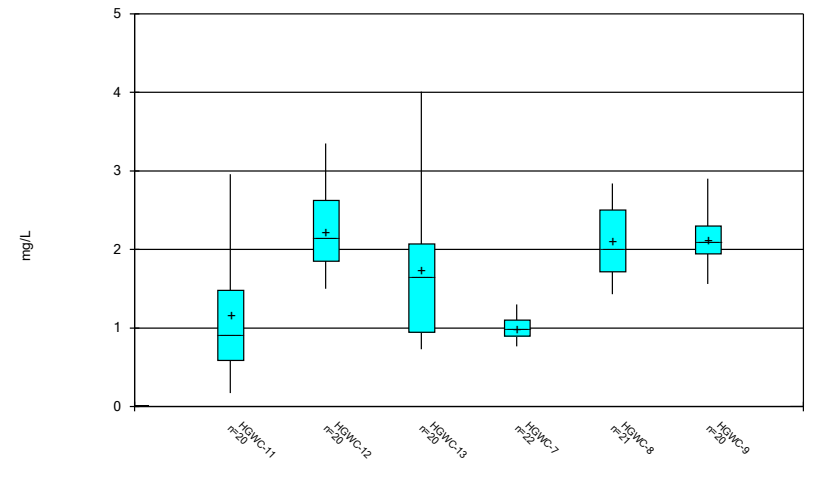
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



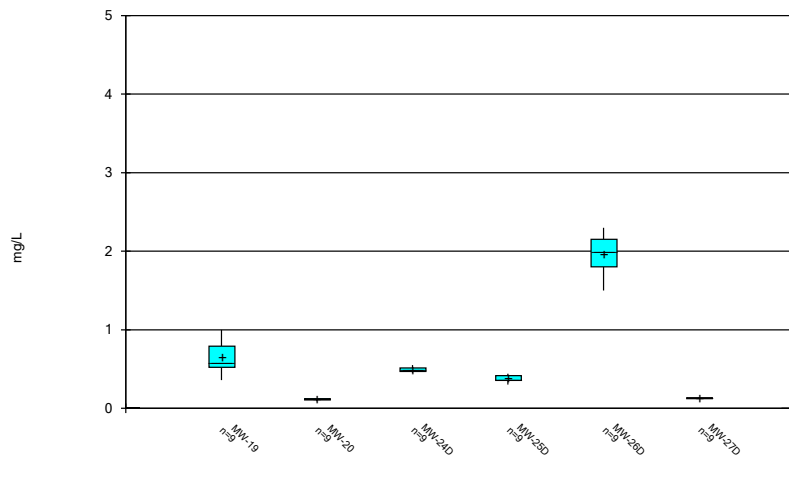
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



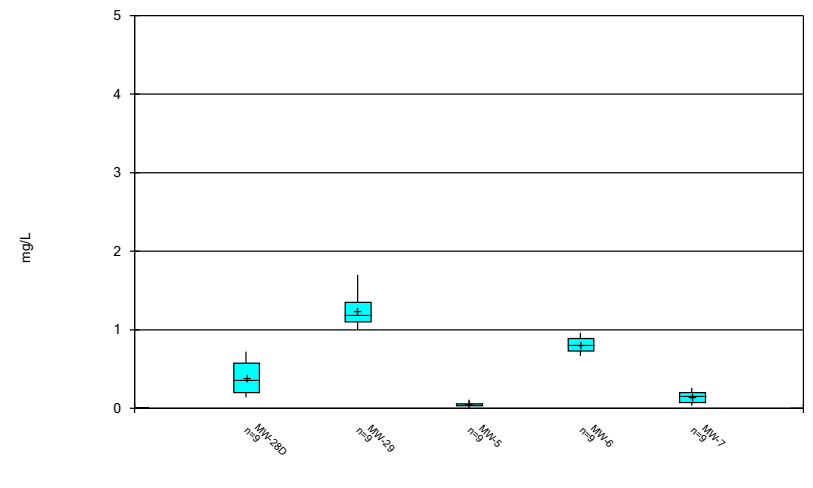
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



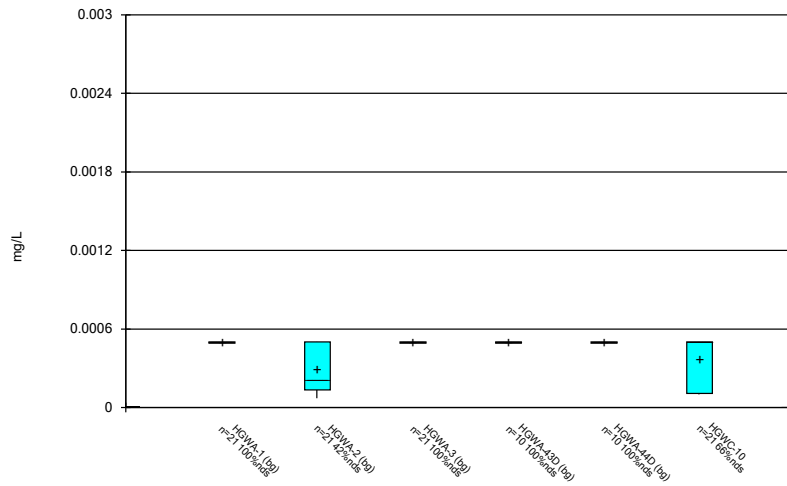
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



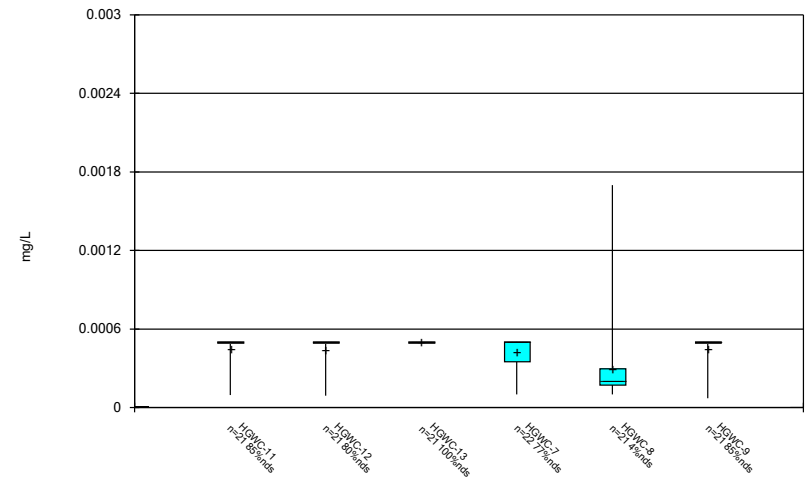
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



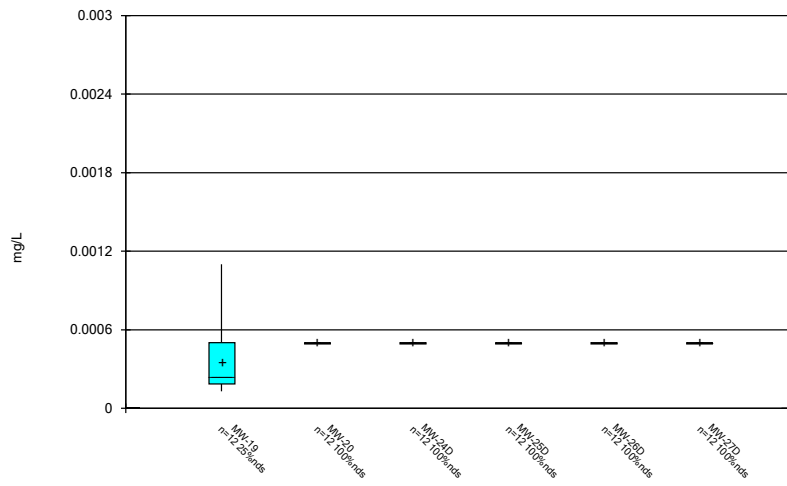
Constituent: Cadmium Analysis Run 4/14/2023 12:21 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



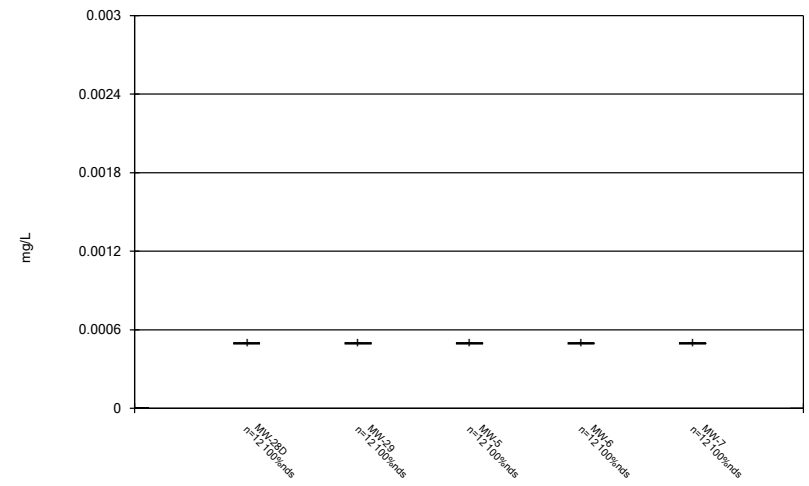
Constituent: Cadmium Analysis Run 4/14/2023 12:21 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



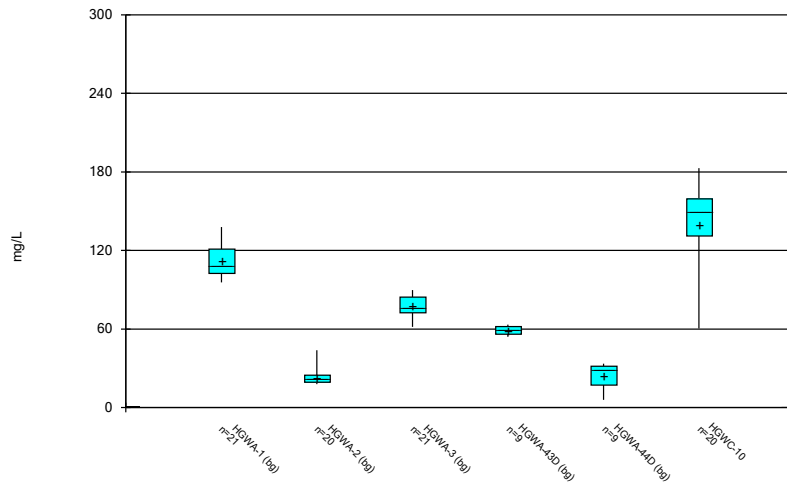
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



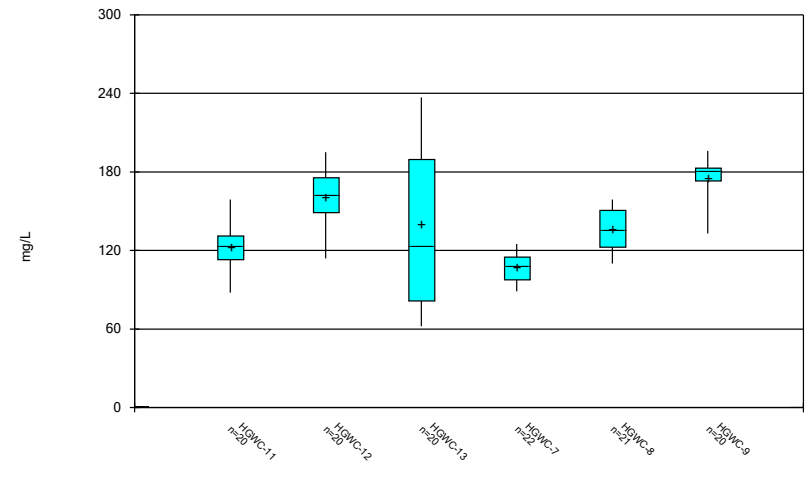
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



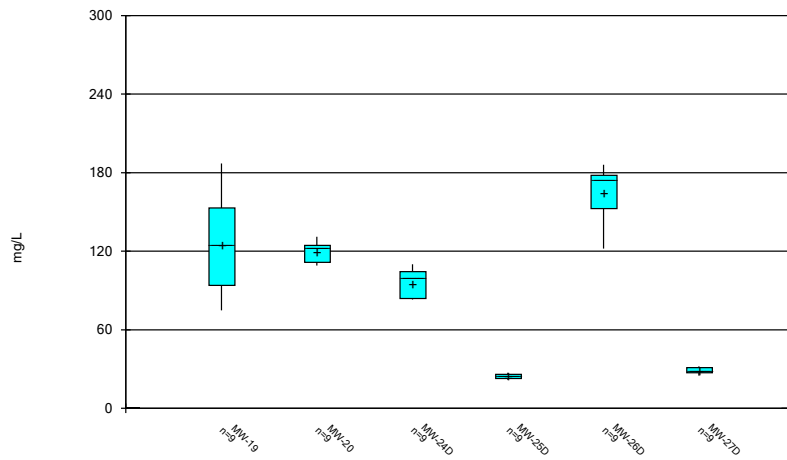
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



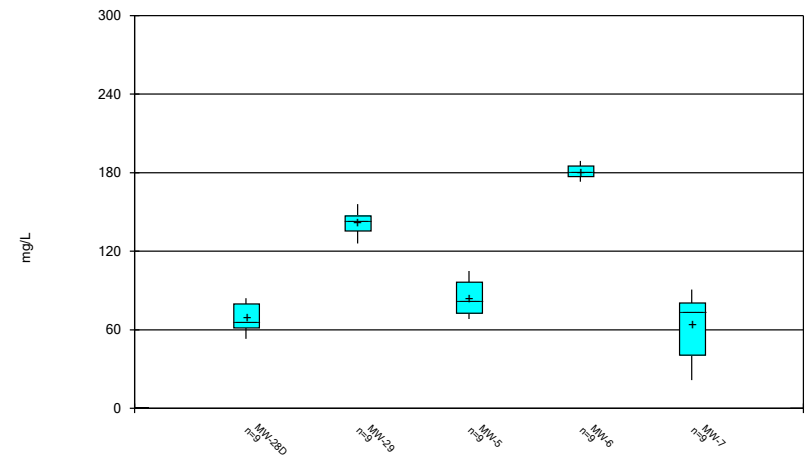
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



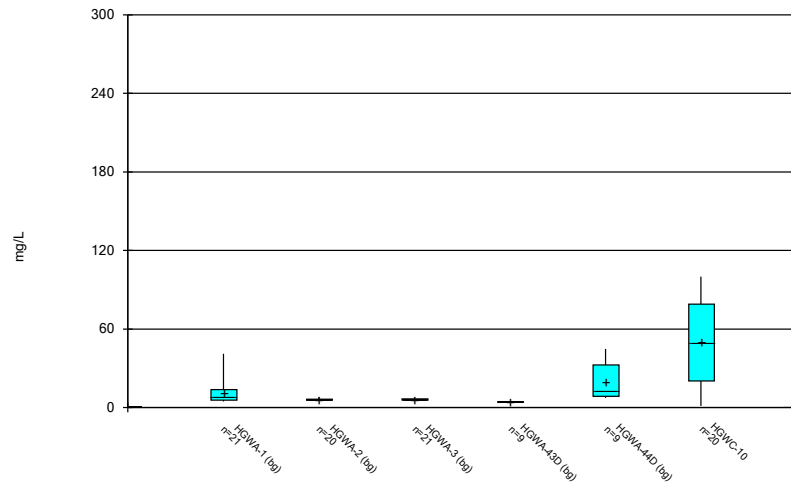
Constituent: Calcium Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



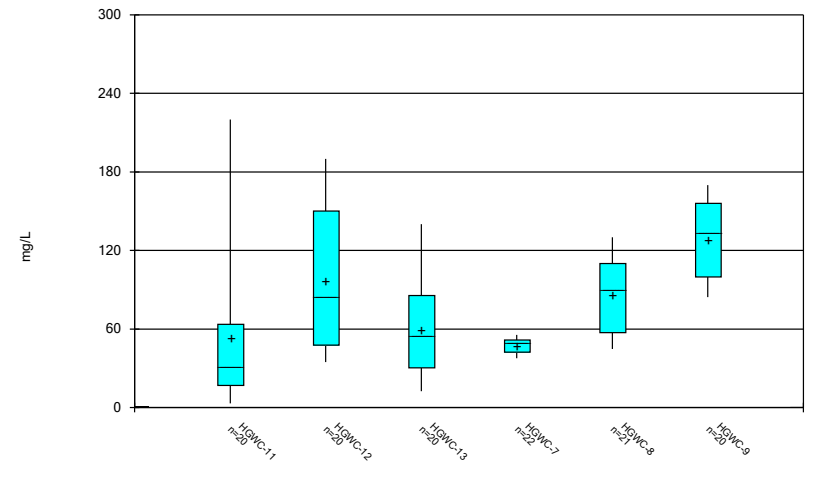
Constituent: Calcium Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



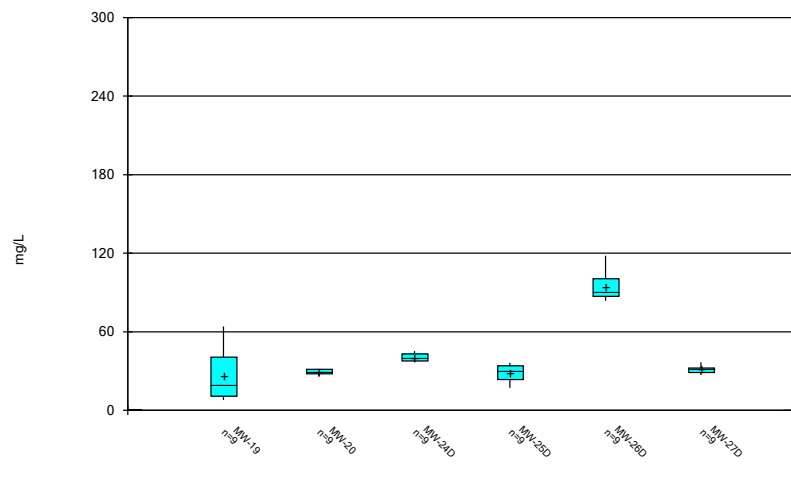
Constituent: Chloride Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



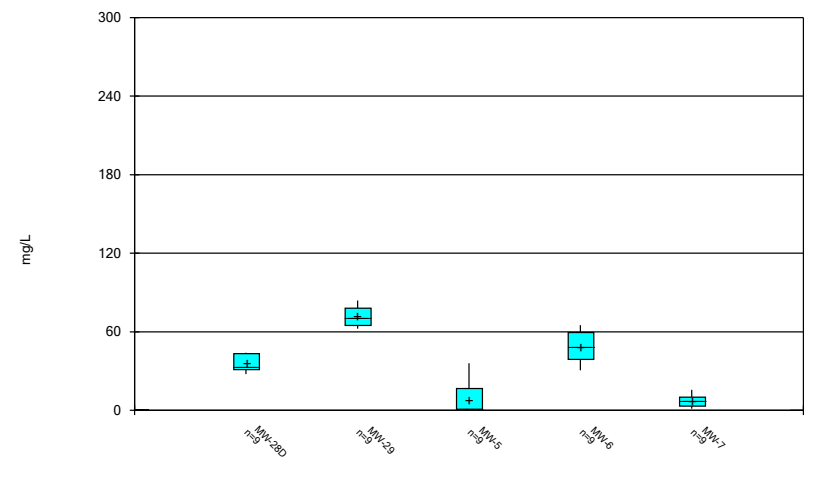
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



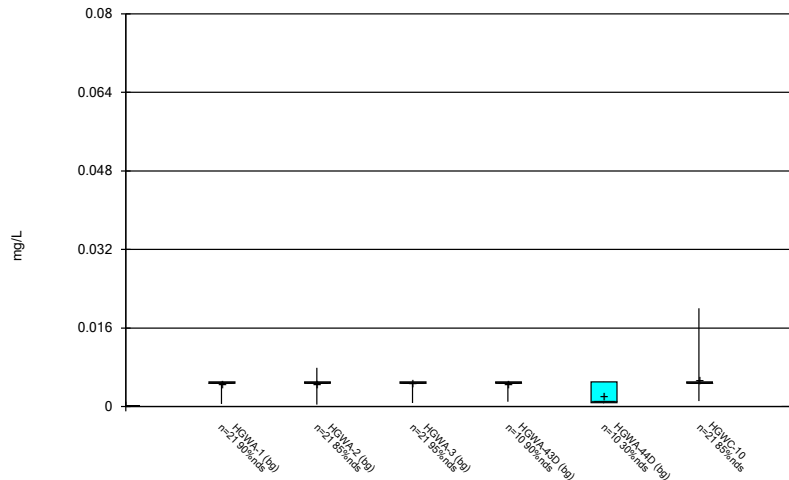
Constituent: Chloride Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



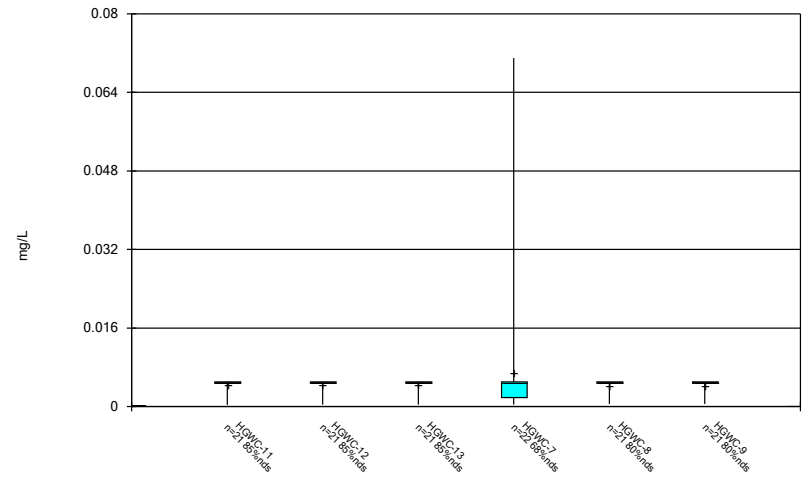
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Box & Whiskers Plot



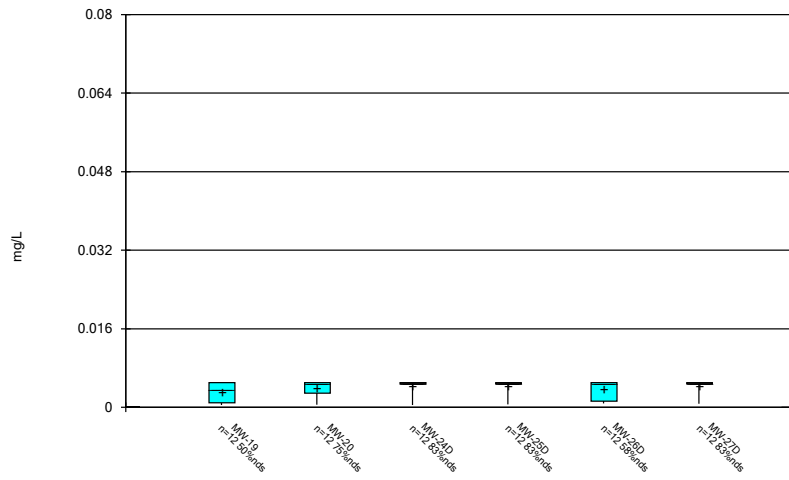
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Box & Whiskers Plot



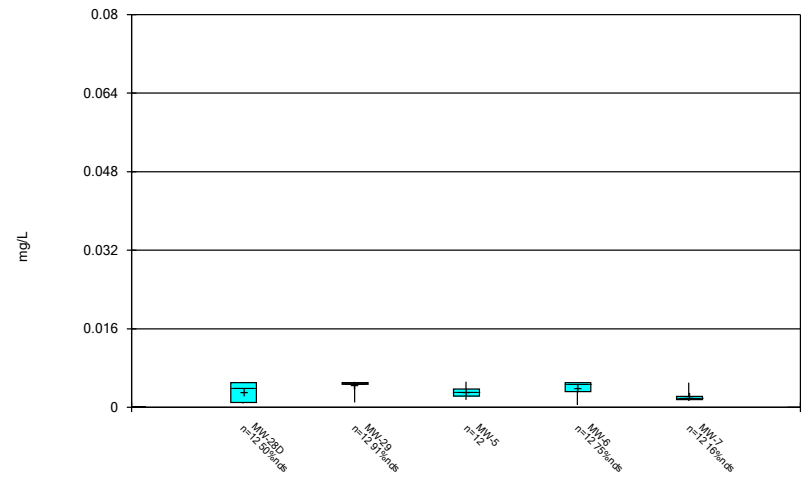
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Box & Whiskers Plot



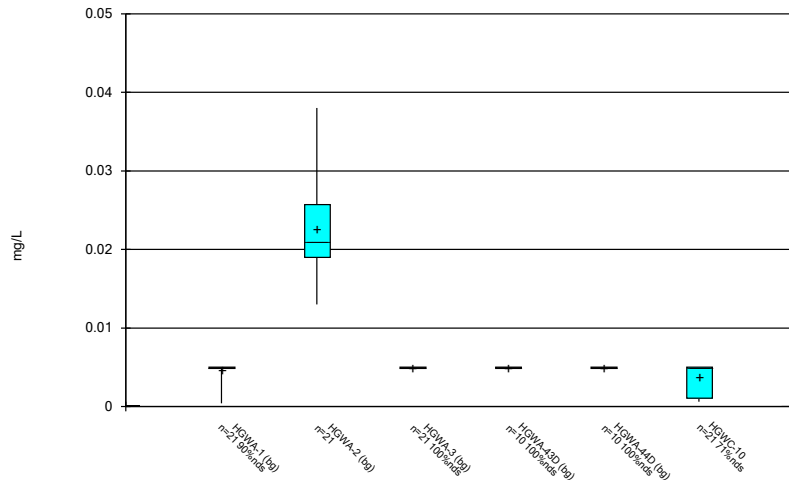
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Box & Whiskers Plot



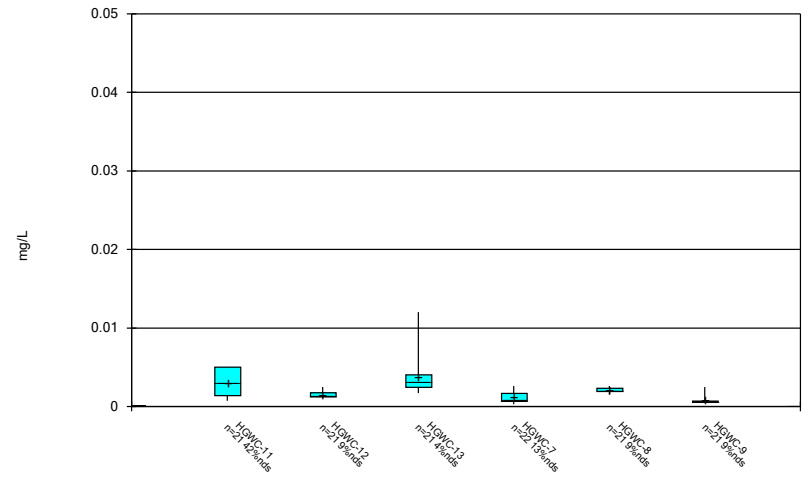
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Box & Whiskers Plot



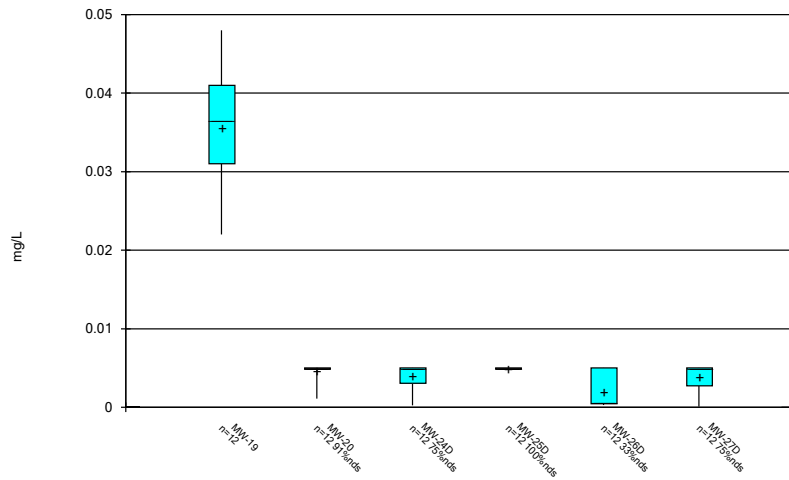
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Box & Whiskers Plot



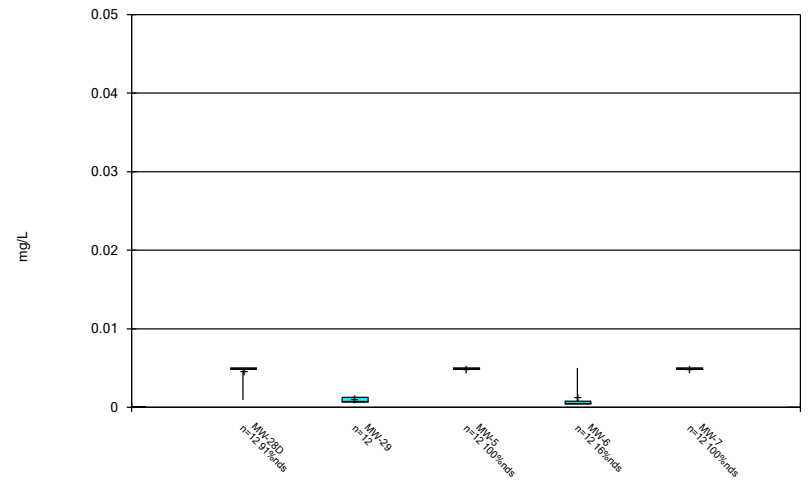
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Box & Whiskers Plot



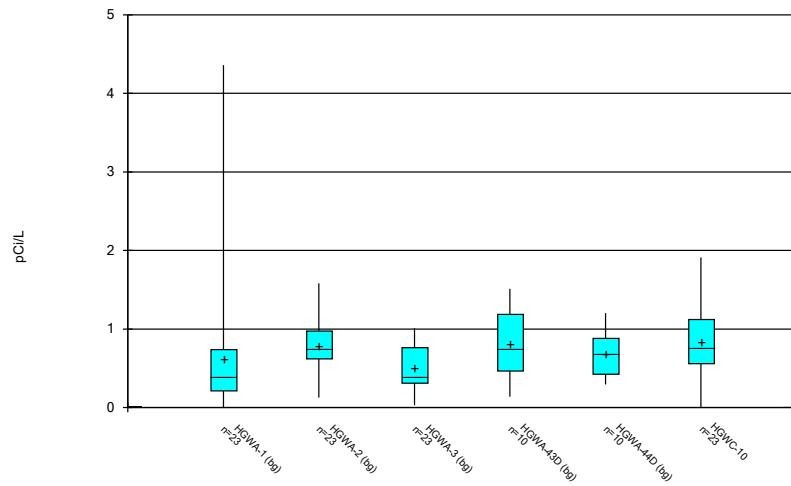
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



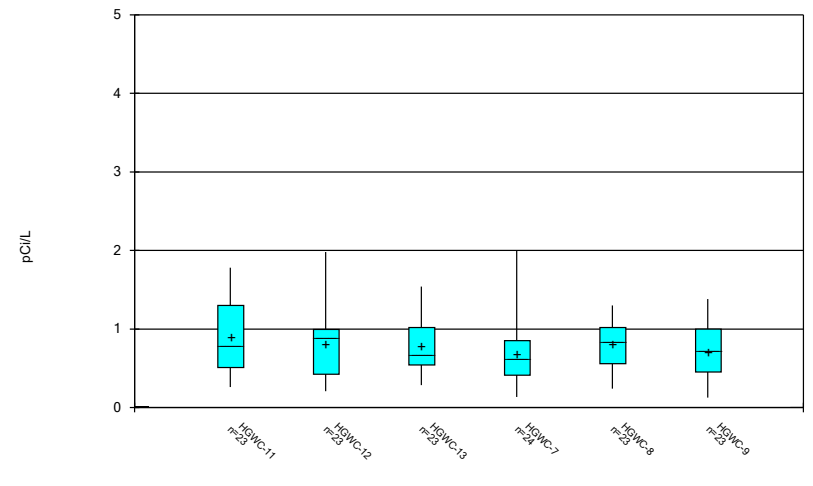
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



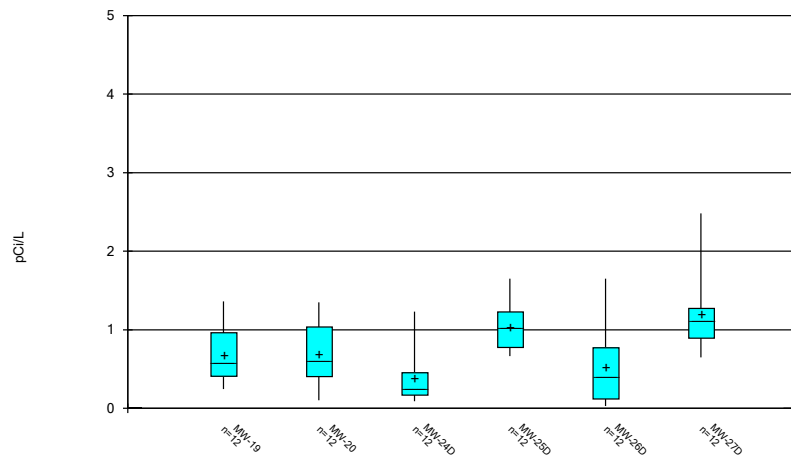
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



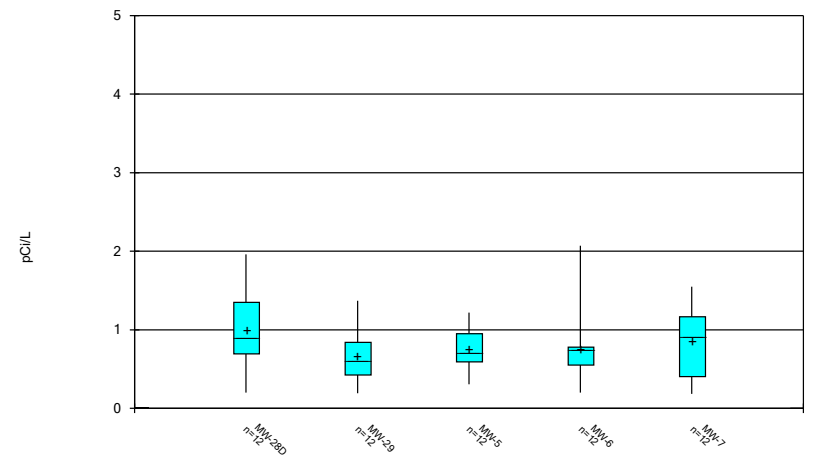
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



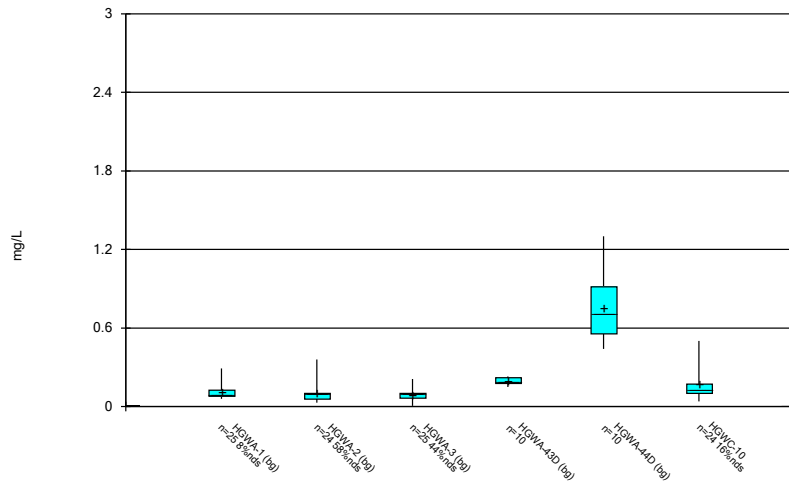
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



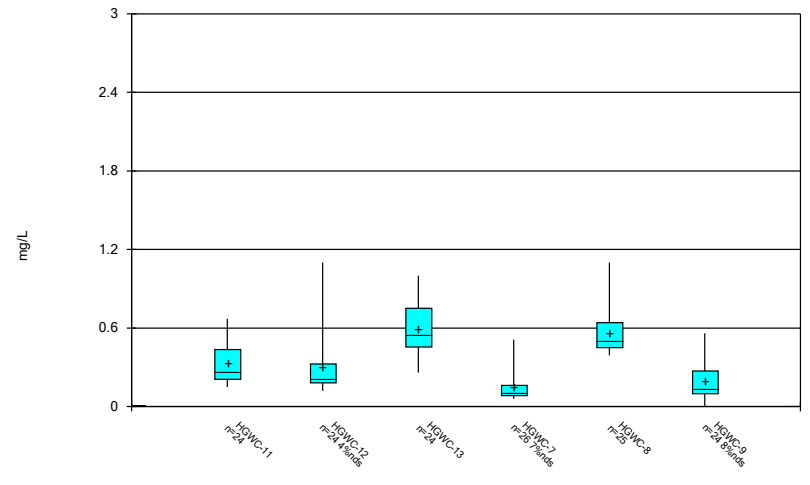
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Box & Whiskers Plot



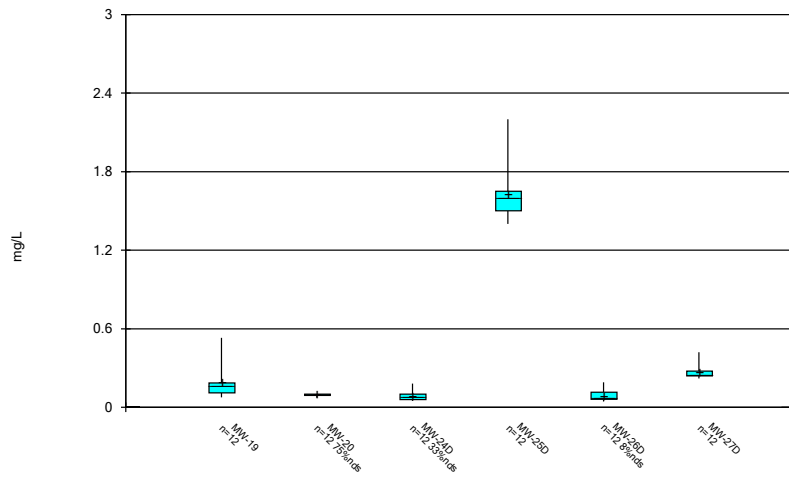
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Box & Whiskers Plot



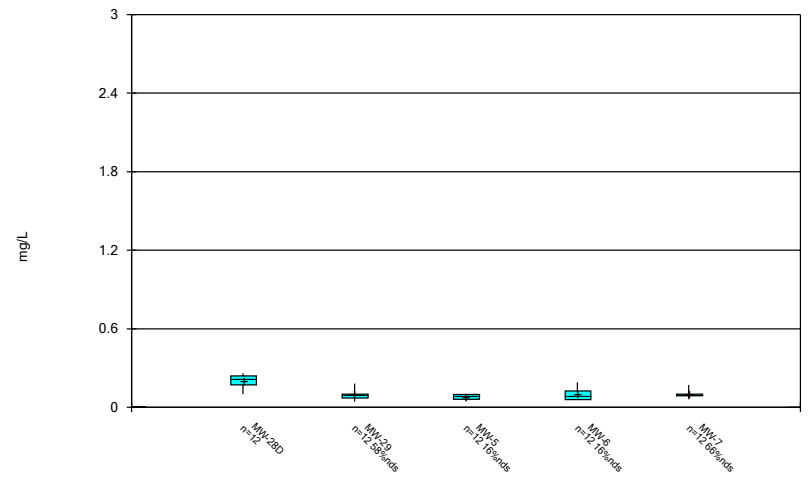
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Box & Whiskers Plot



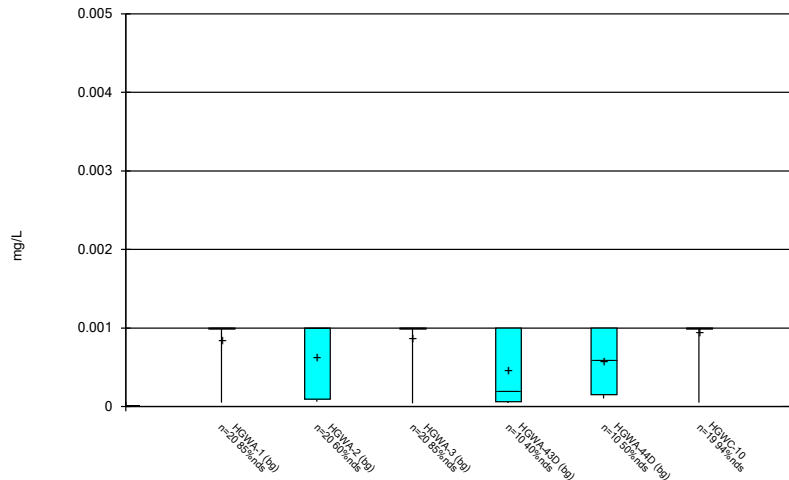
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Box & Whiskers Plot



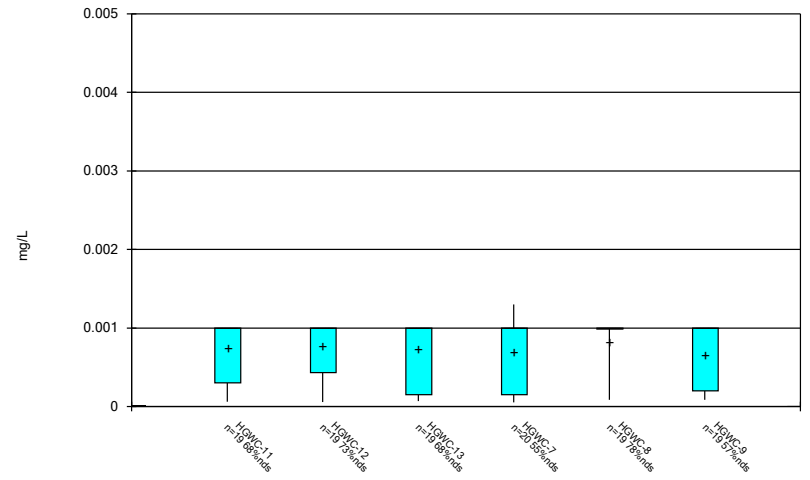
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



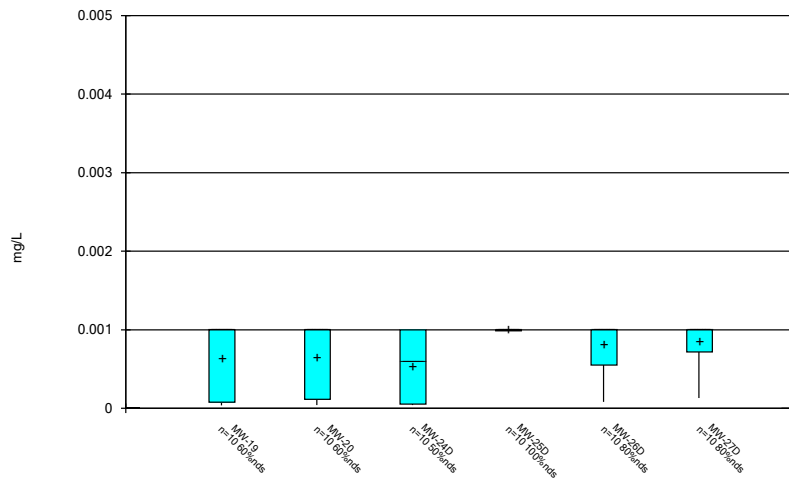
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



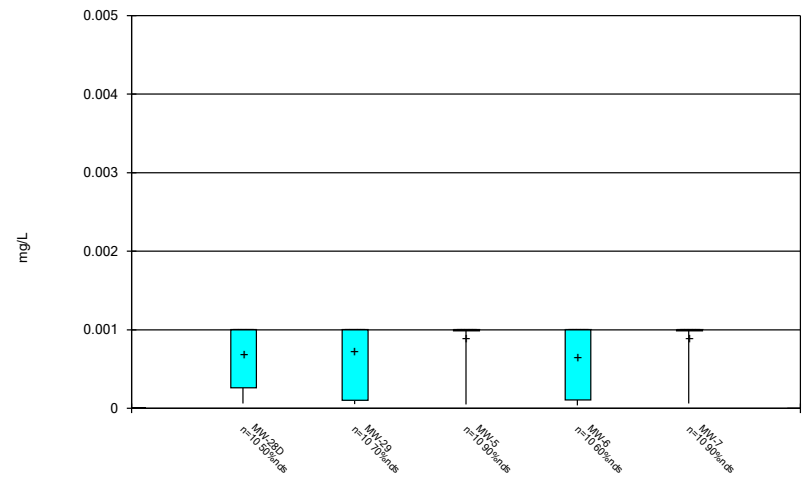
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



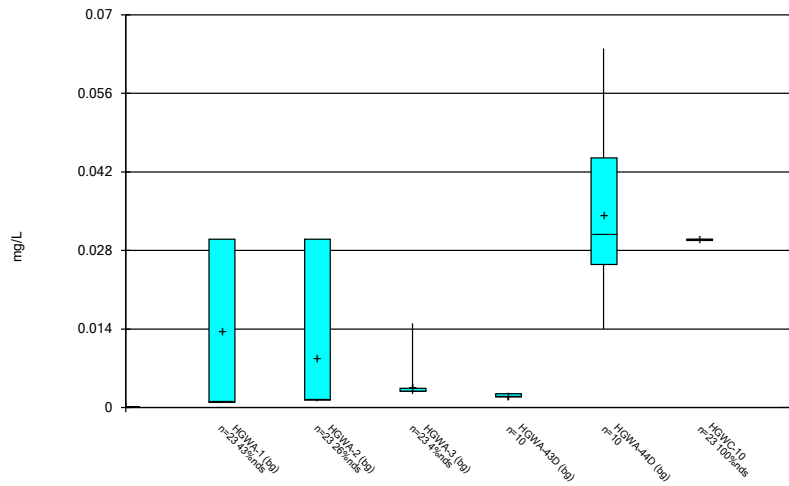
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Box & Whiskers Plot



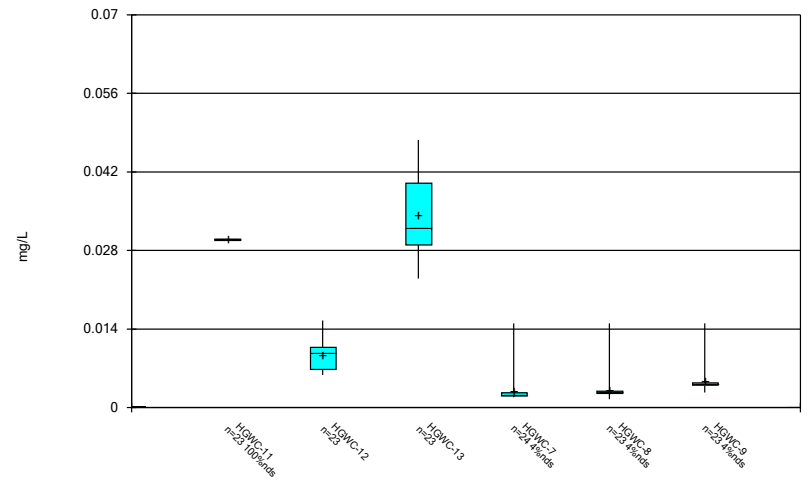
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Box & Whiskers Plot



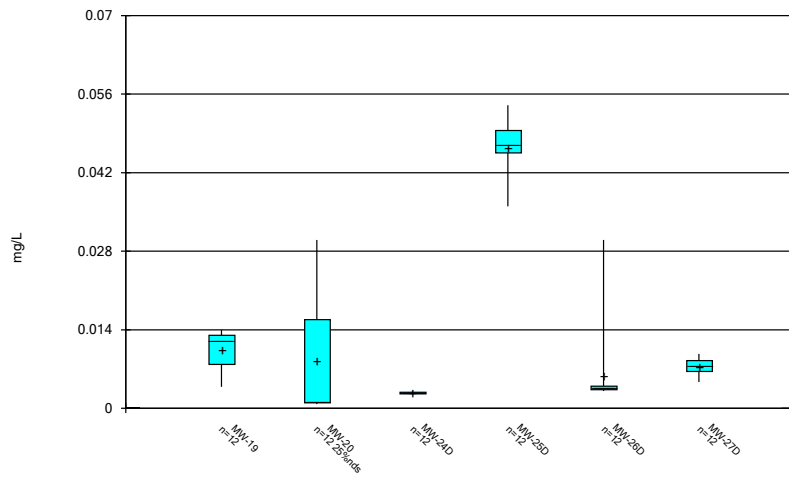
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Box & Whiskers Plot



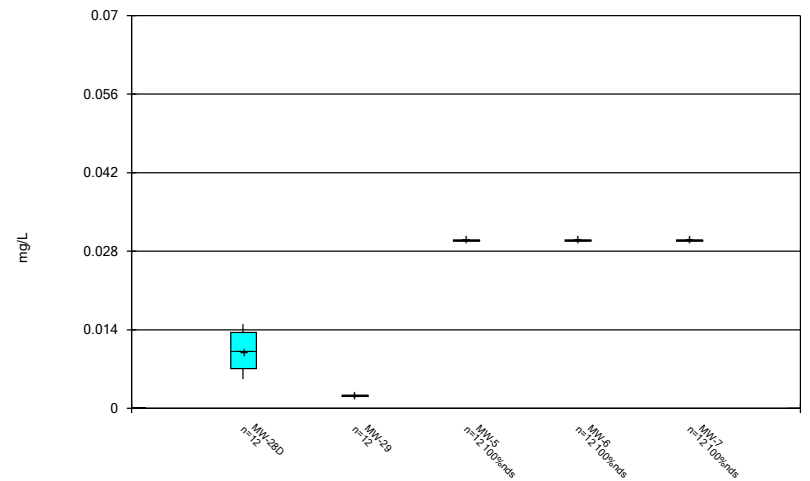
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Box & Whiskers Plot



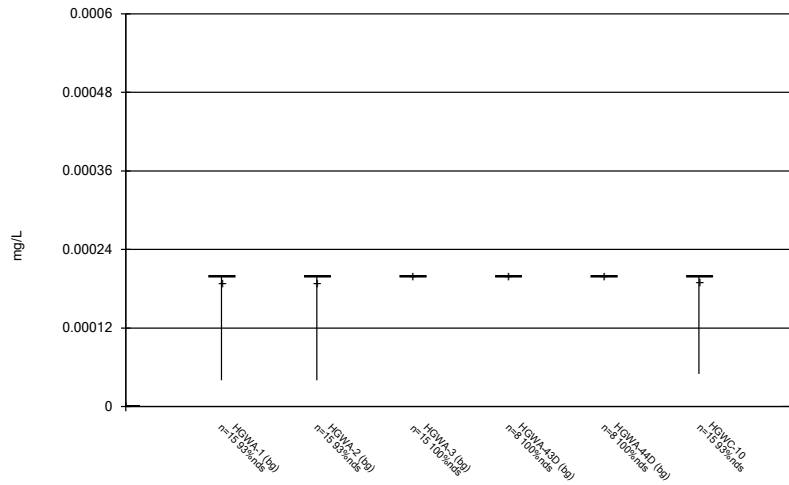
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Box & Whiskers Plot



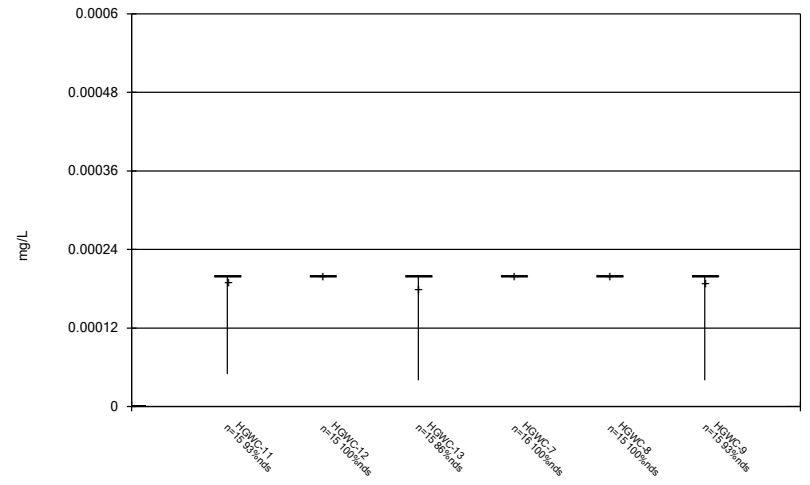
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Box & Whiskers Plot



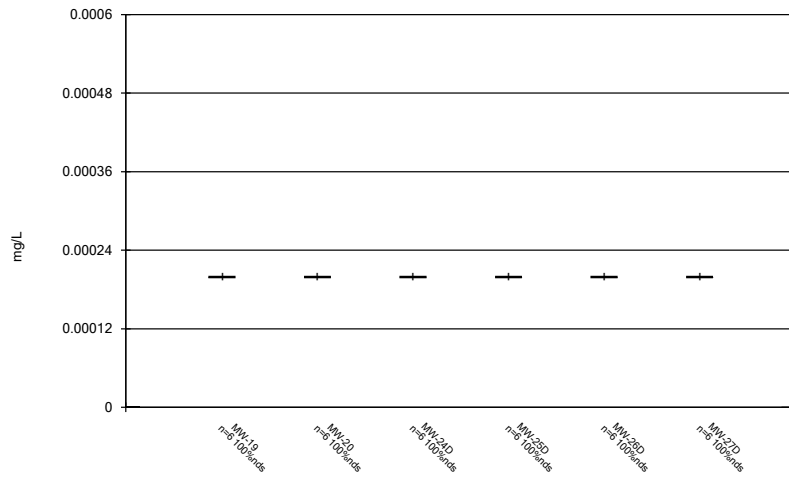
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



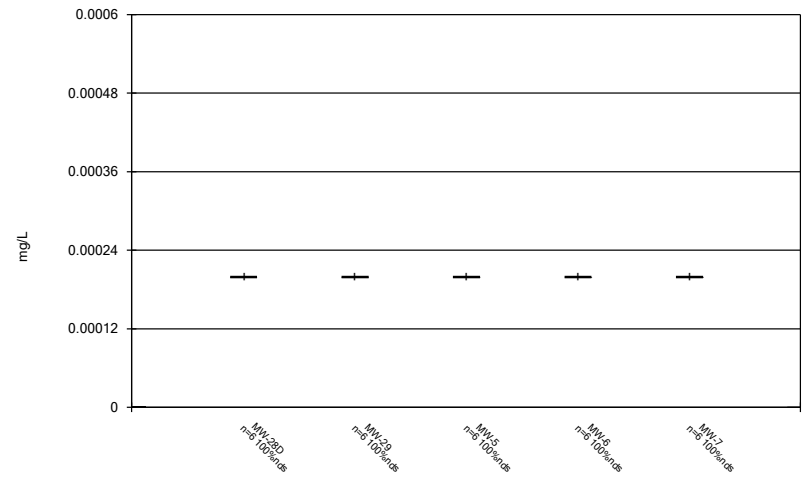
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



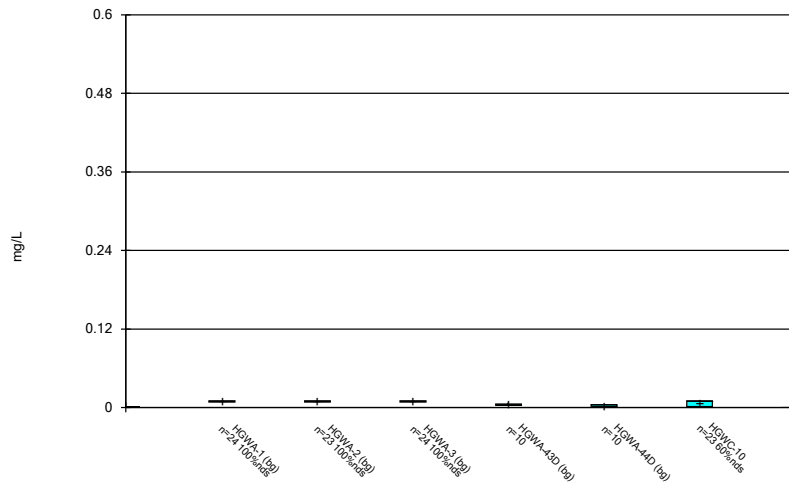
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Box & Whiskers Plot



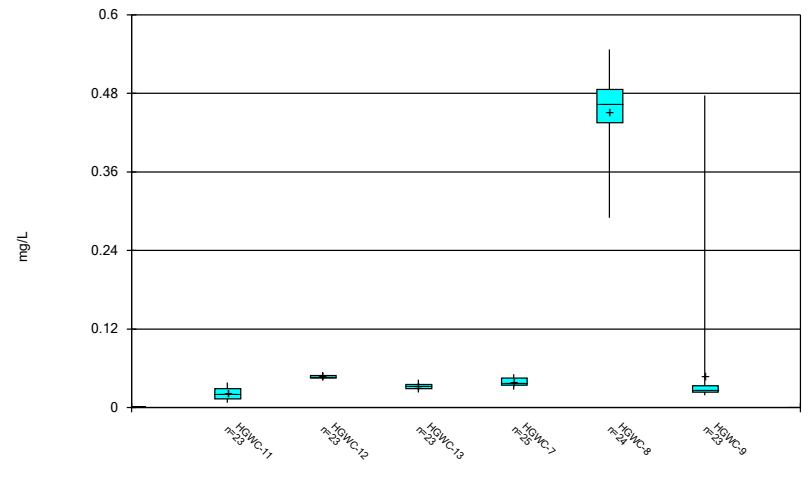
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Box & Whiskers Plot



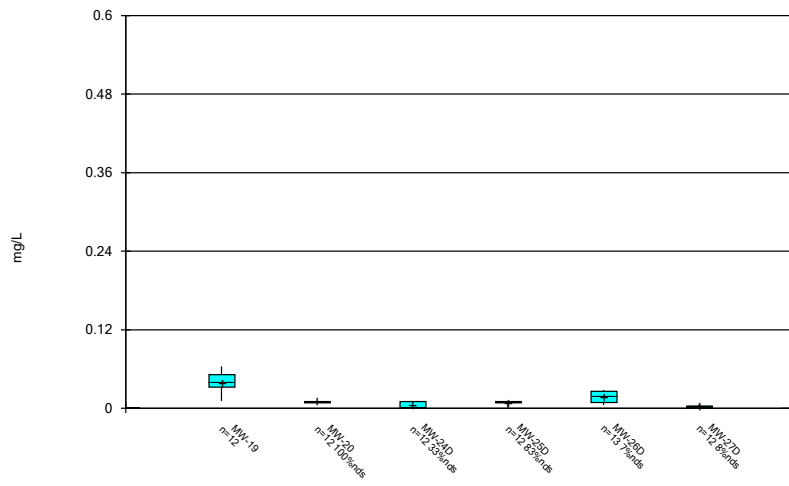
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Box & Whiskers Plot



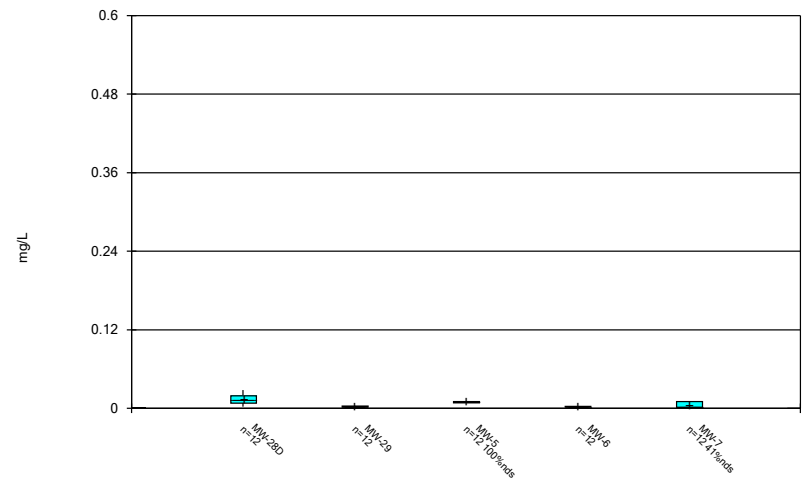
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Box & Whiskers Plot



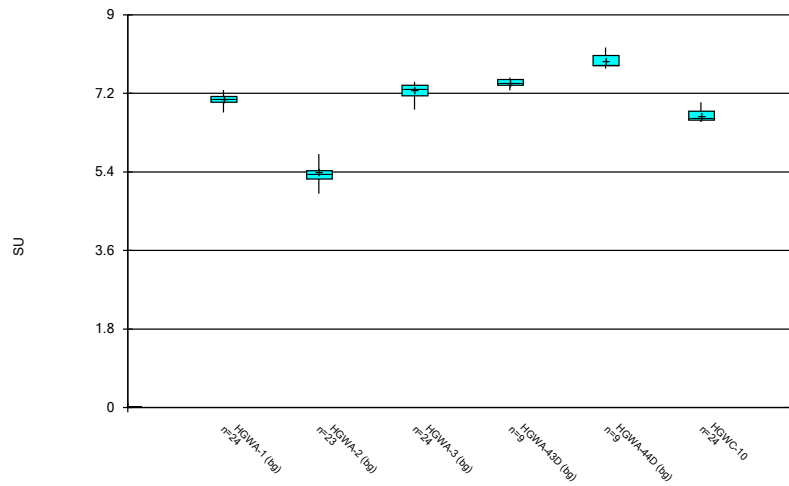
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Box & Whiskers Plot



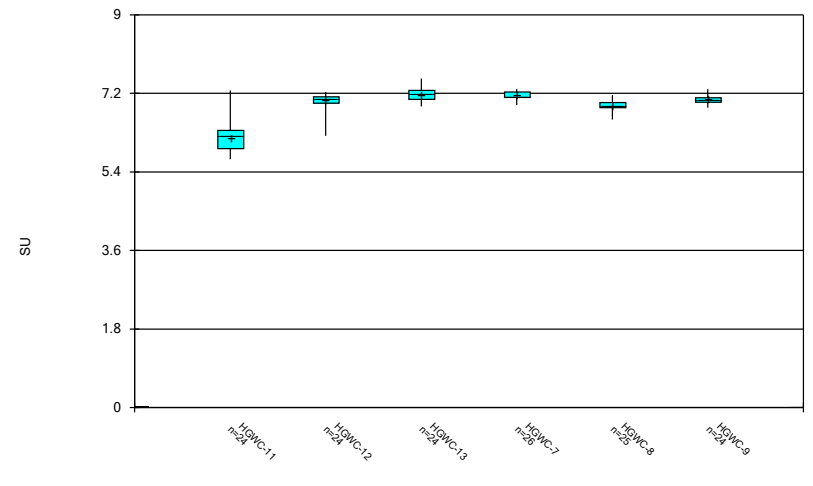
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Box & Whiskers Plot



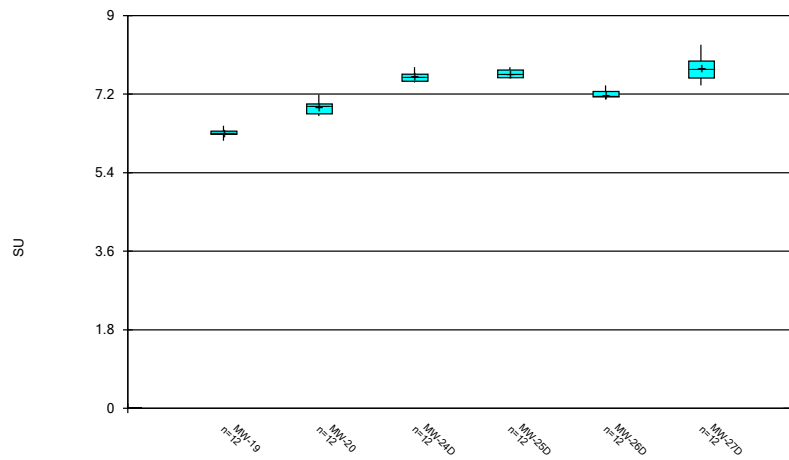
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Box & Whiskers Plot



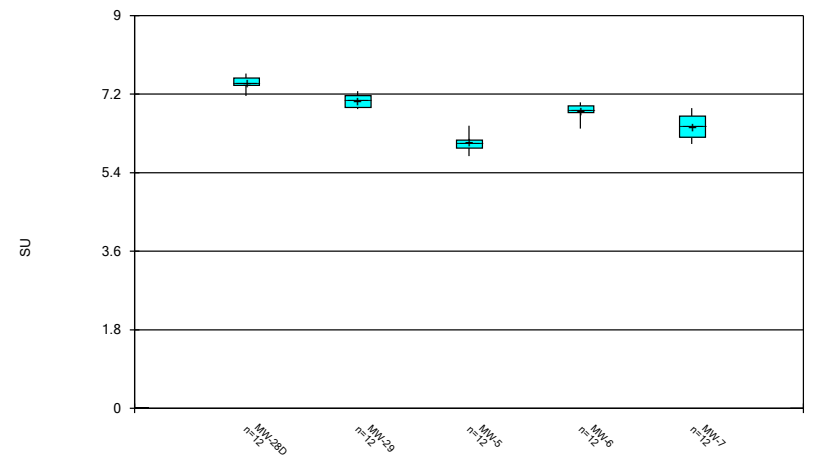
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Box & Whiskers Plot



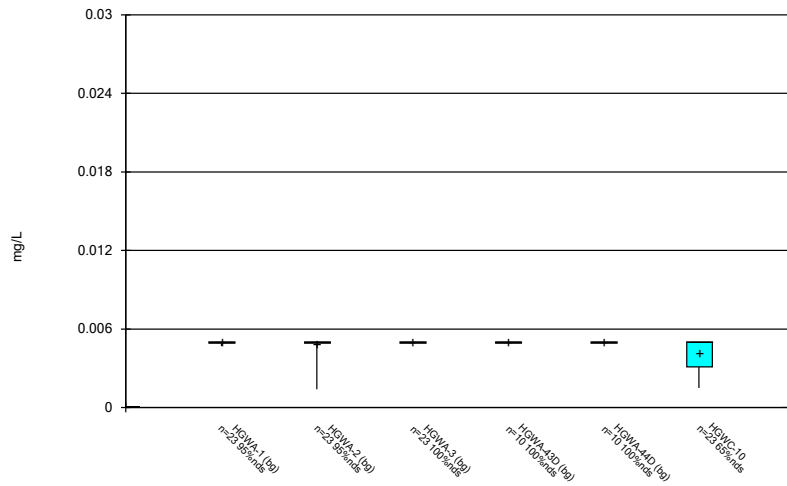
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Box & Whiskers Plot



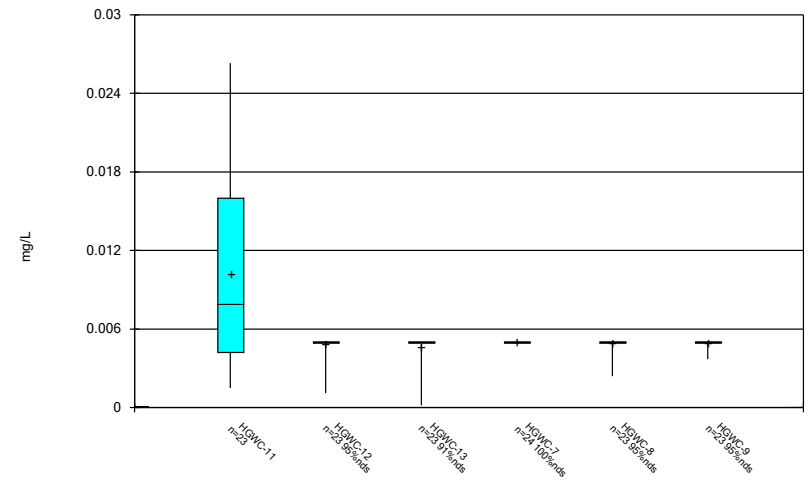
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Box & Whiskers Plot



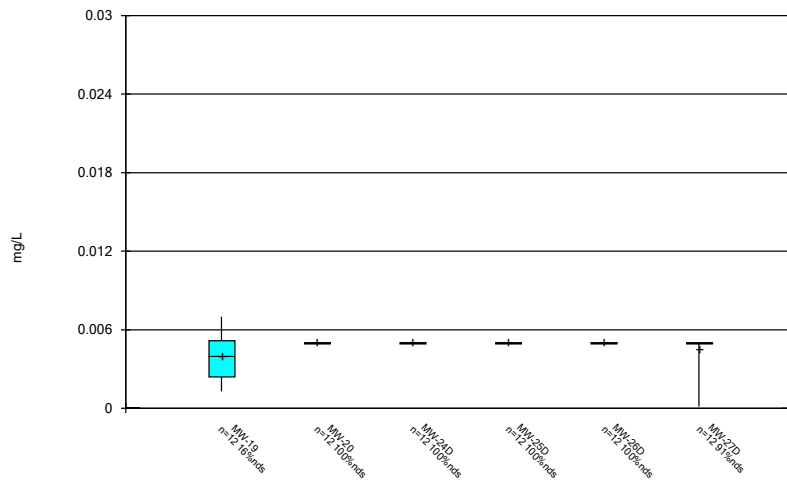
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Box & Whiskers Plot



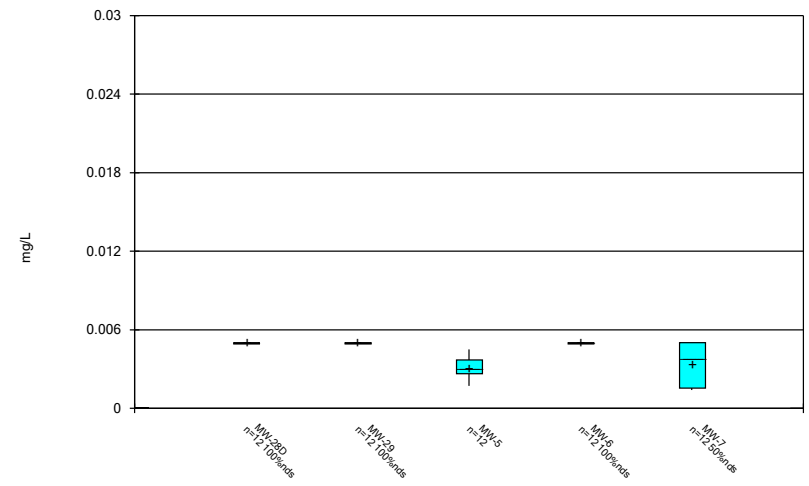
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Box & Whiskers Plot



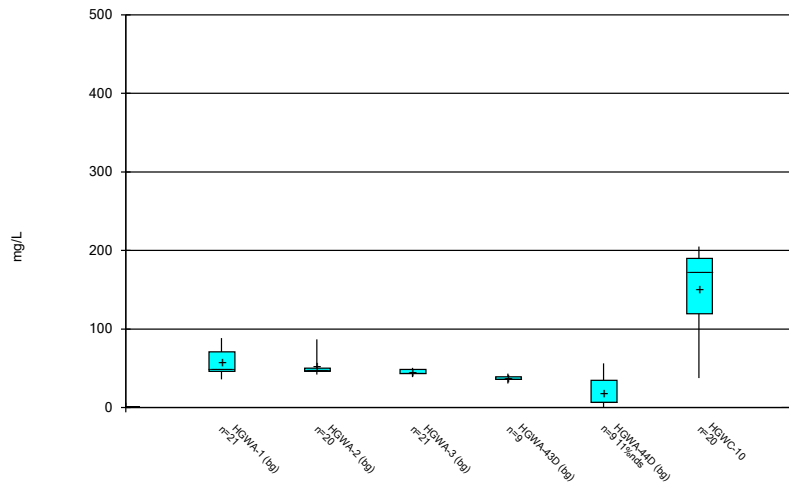
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Box & Whiskers Plot



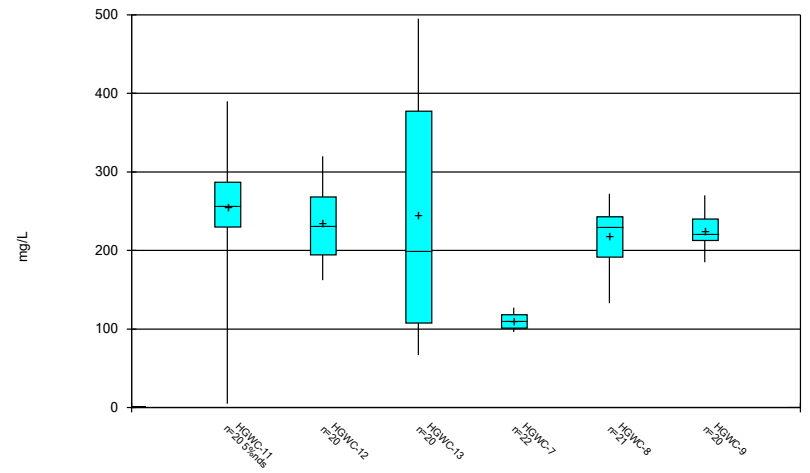
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Box & Whiskers Plot



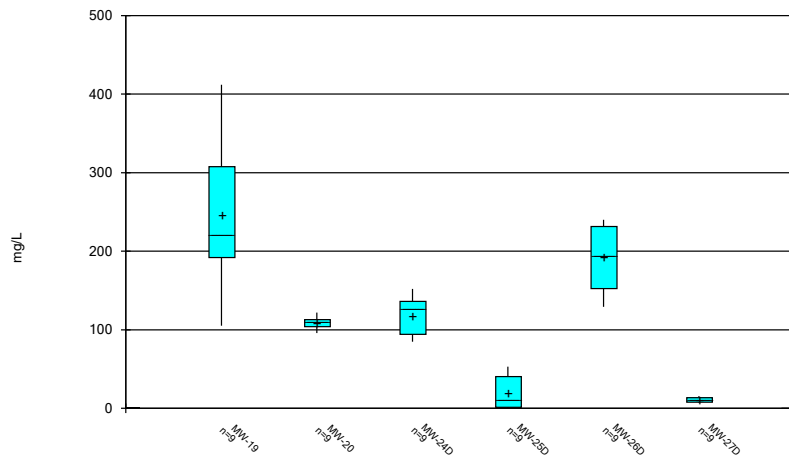
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Box & Whiskers Plot



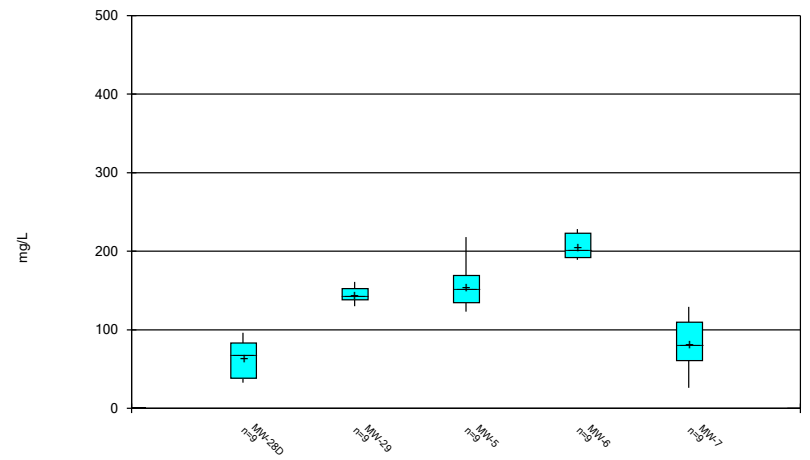
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Box & Whiskers Plot



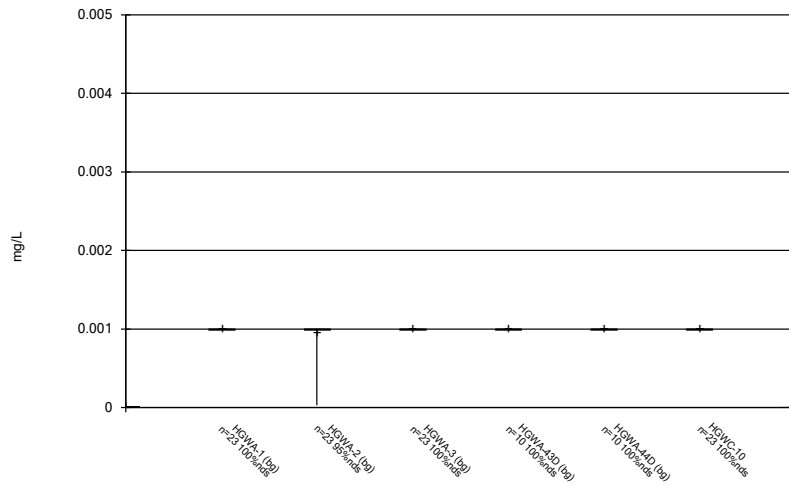
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Box & Whiskers Plot



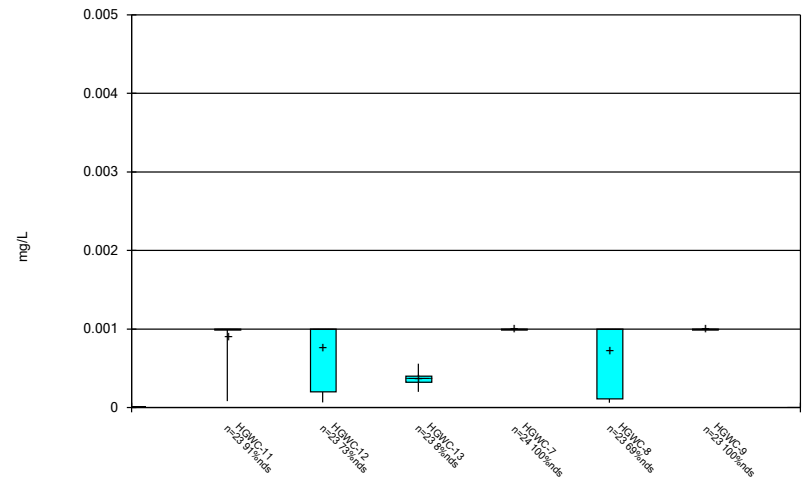
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Box & Whiskers Plot



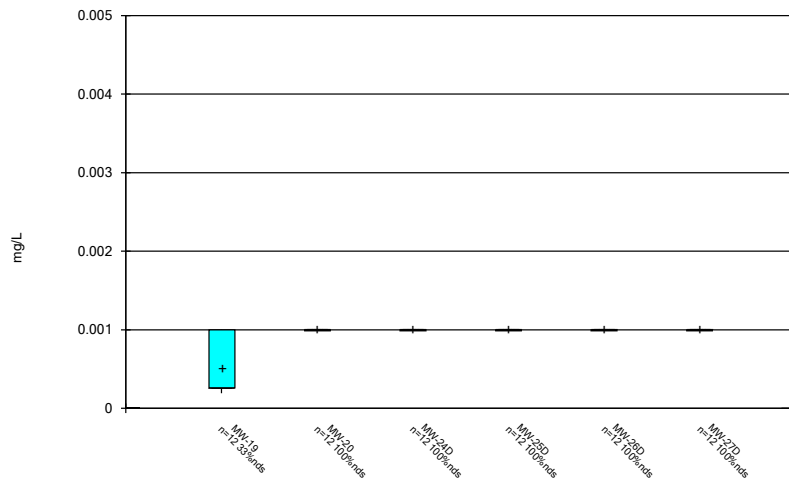
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Box & Whiskers Plot



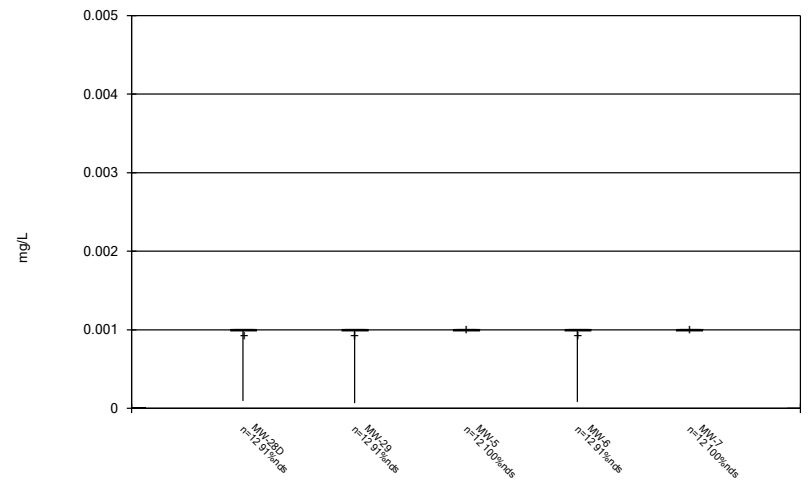
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Box & Whiskers Plot



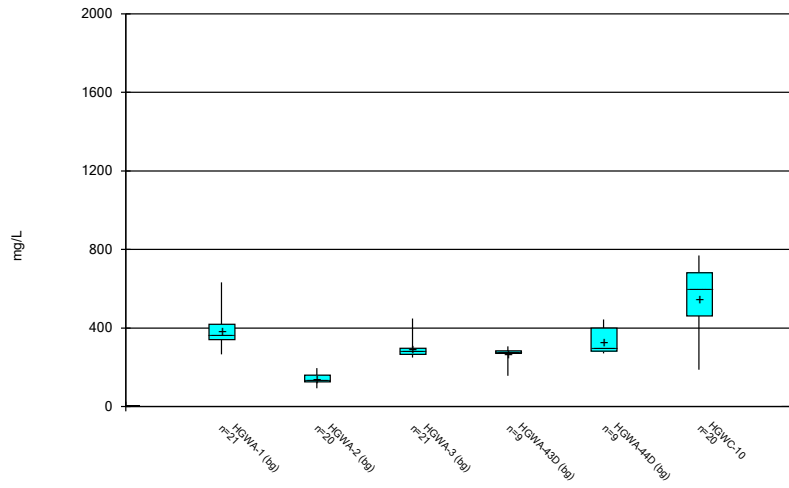
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Box & Whiskers Plot



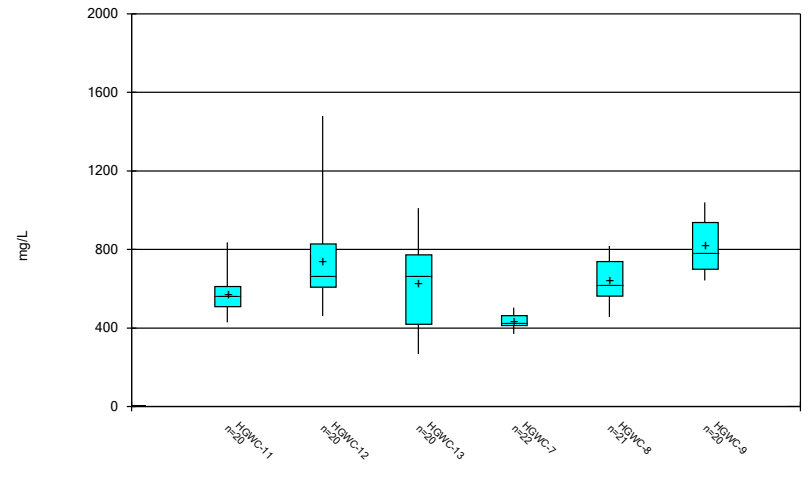
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Box & Whiskers Plot



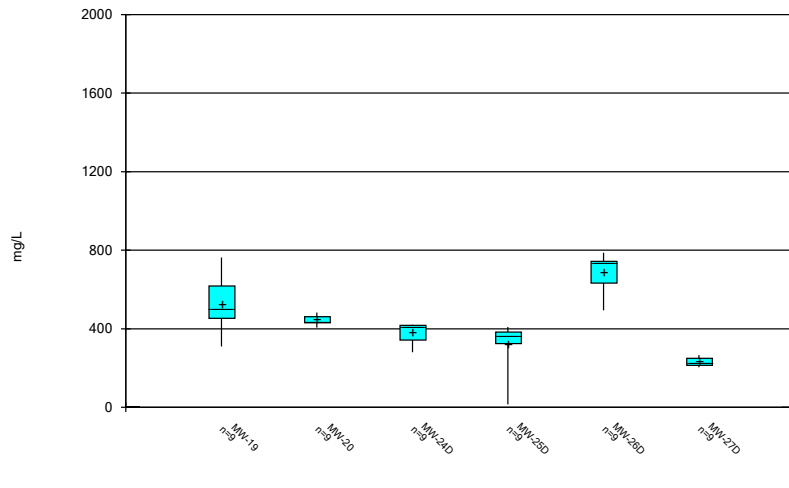
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



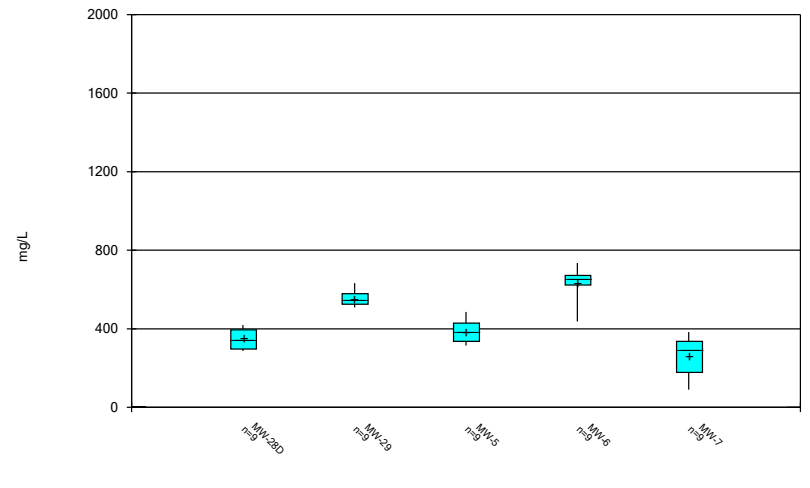
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:22 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:22 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

FIGURE C.

Outlier Summary

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 12:24 PM

No values were flagged.

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 12:39 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------------------|---------|------------|------------|-----------|---------|------|------|---------|-----------|------|---------|-----------|-----------|-----------------------------|
| Boron (mg/L) | HGWC-11 | 0.44 | n/a | 1/26/2023 | 0.5 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-12 | 0.44 | n/a | 1/26/2023 | 1.5 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-13 | 0.44 | n/a | 1/26/2023 | 0.83 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-7 | 0.44 | n/a | 1/27/2023 | 0.93 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-8 | 0.44 | n/a | 2/1/2023 | 1.9 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-9 | 0.44 | n/a | 1/26/2023 | 1.9 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-12 | 138 | n/a | 1/26/2023 | 154 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-13 | 138 | n/a | 1/26/2023 | 234 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-9 | 138 | n/a | 1/26/2023 | 173 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-8 | 44.8 | n/a | 2/1/2023 | 52.4 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-9 | 44.8 | n/a | 1/26/2023 | 86.9 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-11 | 88.2 | n/a | 1/26/2023 | 209 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-12 | 88.2 | n/a | 1/26/2023 | 228 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-13 | 88.2 | n/a | 1/26/2023 | 495 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-7 | 88.2 | n/a | 1/27/2023 | 119 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-8 | 88.2 | n/a | 2/1/2023 | 179 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-9 | 88.2 | n/a | 1/26/2023 | 217 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-13 | 632 | n/a | 1/26/2023 | 962 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-9 | 632 | n/a | 1/26/2023 | 745 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |

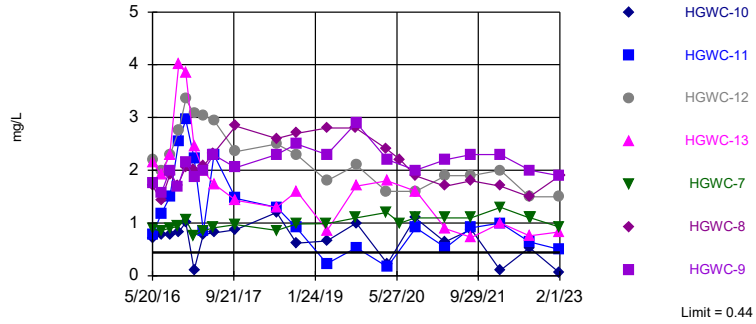
Appendix III Interwell Prediction Limits - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 12:39 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|--------------------------------------|----------------|-------------|------------|------------------|-------------|------------|-----------|------------|------------|-------------|------------|------------|------------------|------------------------------------|
| Boron (mg/L) | HGWC-10 | 0.44 | n/a | 1/27/2023 | 0.065 | No | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-11 | 0.44 | n/a | 1/26/2023 | 0.5 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-12 | 0.44 | n/a | 1/26/2023 | 1.5 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-13 | 0.44 | n/a | 1/26/2023 | 0.83 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-7 | 0.44 | n/a | 1/27/2023 | 0.93 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-8 | 0.44 | n/a | 2/1/2023 | 1.9 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-9 | 0.44 | n/a | 1/26/2023 | 1.9 | Yes | 80 | n/a | n/a | 5 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-10 | 138 | n/a | 1/27/2023 | 60.4 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-11 | 138 | n/a | 1/26/2023 | 113 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-12 | 138 | n/a | 1/26/2023 | 154 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-13 | 138 | n/a | 1/26/2023 | 234 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-7 | 138 | n/a | 1/27/2023 | 124 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-8 | 138 | n/a | 2/1/2023 | 110 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-9 | 138 | n/a | 1/26/2023 | 173 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-10 | 44.8 | n/a | 1/27/2023 | 1.6 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-11 | 44.8 | n/a | 1/26/2023 | 8.8 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-12 | 44.8 | n/a | 1/26/2023 | 34.6 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-13 | 44.8 | n/a | 1/26/2023 | 12.5 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-7 | 44.8 | n/a | 1/27/2023 | 40 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-8 | 44.8 | n/a | 2/1/2023 | 52.4 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-9 | 44.8 | n/a | 1/26/2023 | 86.9 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-10 | 1.3 | n/a | 1/27/2023 | 0.16 | No | 94 | n/a | n/a | 28.72 | n/a | n/a | 0.0002194 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-11 | 1.3 | n/a | 1/26/2023 | 0.2 | No | 94 | n/a | n/a | 28.72 | n/a | n/a | 0.0002194 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-12 | 1.3 | n/a | 1/26/2023 | 0.21 | No | 94 | n/a | n/a | 28.72 | n/a | n/a | 0.0002194 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-13 | 1.3 | n/a | 1/26/2023 | 0.4 | No | 94 | n/a | n/a | 28.72 | n/a | n/a | 0.0002194 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-7 | 1.3 | n/a | 1/27/2023 | 0.1 | No | 94 | n/a | n/a | 28.72 | n/a | n/a | 0.0002194 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-8 | 1.3 | n/a | 2/1/2023 | 0.4 | No | 94 | n/a | n/a | 28.72 | n/a | n/a | 0.0002194 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-9 | 1.3 | n/a | 1/26/2023 | 0.11 | No | 94 | n/a | n/a | 28.72 | n/a | n/a | 0.0002194 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-10 | 8.25 | 4.9 | 1/27/2023 | 6.89 | No | 89 | n/a | n/a | 0 | n/a | n/a | 0.0004864 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-11 | 8.25 | 4.9 | 1/26/2023 | 6.23 | No | 89 | n/a | n/a | 0 | n/a | n/a | 0.0004864 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-12 | 8.25 | 4.9 | 1/26/2023 | 7.1 | No | 89 | n/a | n/a | 0 | n/a | n/a | 0.0004864 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-13 | 8.25 | 4.9 | 1/26/2023 | 6.9 | No | 89 | n/a | n/a | 0 | n/a | n/a | 0.0004864 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-7 | 8.25 | 4.9 | 1/27/2023 | 7.25 | No | 89 | n/a | n/a | 0 | n/a | n/a | 0.0004864 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-8 | 8.25 | 4.9 | 2/1/2023 | 6.6 | No | 89 | n/a | n/a | 0 | n/a | n/a | 0.0004864 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-9 | 8.25 | 4.9 | 1/26/2023 | 7.07 | No | 89 | n/a | n/a | 0 | n/a | n/a | 0.0004864 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-10 | 88.2 | n/a | 1/27/2023 | 37.3 | No | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-11 | 88.2 | n/a | 1/26/2023 | 209 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-12 | 88.2 | n/a | 1/26/2023 | 228 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-13 | 88.2 | n/a | 1/26/2023 | 495 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-7 | 88.2 | n/a | 1/27/2023 | 119 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-8 | 88.2 | n/a | 2/1/2023 | 179 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-9 | 88.2 | n/a | 1/26/2023 | 217 | Yes | 80 | n/a | n/a | 1.25 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-10 | 632 | n/a | 1/27/2023 | 188 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-11 | 632 | n/a | 1/26/2023 | 429 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-12 | 632 | n/a | 1/26/2023 | 624 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-13 | 632 | n/a | 1/26/2023 | 962 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-7 | 632 | n/a | 1/27/2023 | 473 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-8 | 632 | n/a | 2/1/2023 | 528 | No | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-9 | 632 | n/a | 1/26/2023 | 745 | Yes | 80 | n/a | n/a | 0 | n/a | n/a | 0.0002983 | NP Inter (normality) 1 of 2 |

Exceeds Limit: HGWC-11, HGWC-12, HGWC-13, HGWC-7, HGWC-8, HGWC-9

Prediction Limit
Interwell Non-parametric

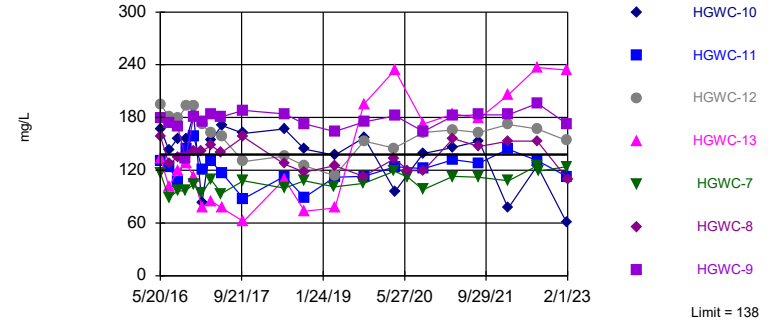


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 80 background values. 5% NDs. Annual per-constituent alpha = 0.004169. Individual comparison alpha = 0.0002983 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 4/14/2023 12:32 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

Exceeds Limit: HGWC-12, HGWC-13, HGWC-9

Prediction Limit
Interwell Non-parametric

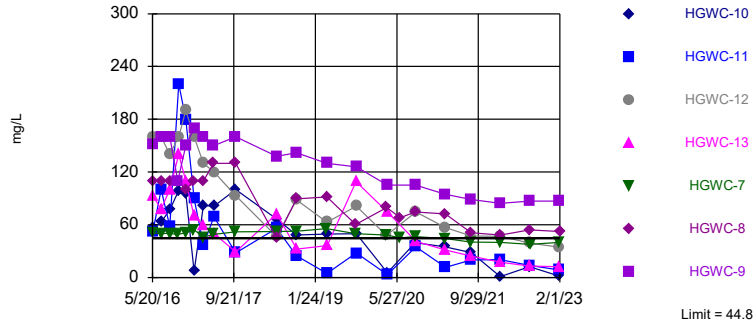


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 80 background values. Annual per-constituent alpha = 0.004169. Individual comparison alpha = 0.0002983 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 4/14/2023 12:32 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

Exceeds Limit: HGWC-8, HGWC-9

Prediction Limit
Interwell Non-parametric



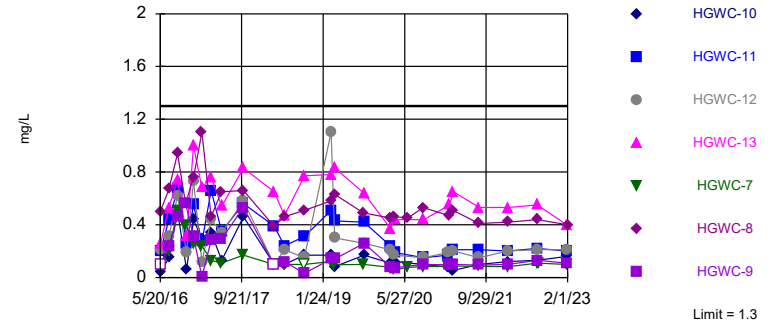
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 80 background values. Annual per-constituent alpha = 0.004169. Individual comparison alpha = 0.0002983 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 4/14/2023 12:32 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric

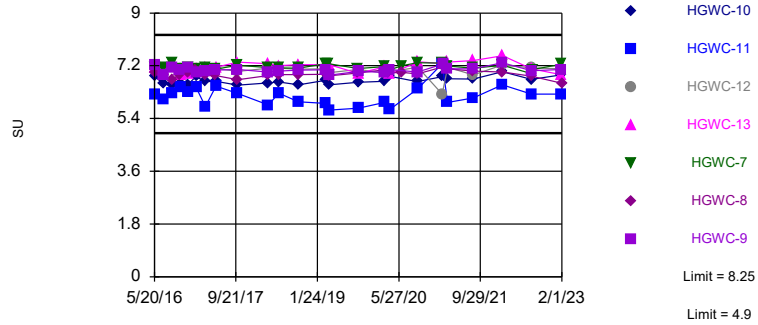


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 94 background values. 28.72% NDs. Annual per-constituent alpha = 0.003068. Individual comparison alpha = 0.0002194 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 4/14/2023 12:32 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

Within Limits

Prediction Limit
Interwell Non-parametric

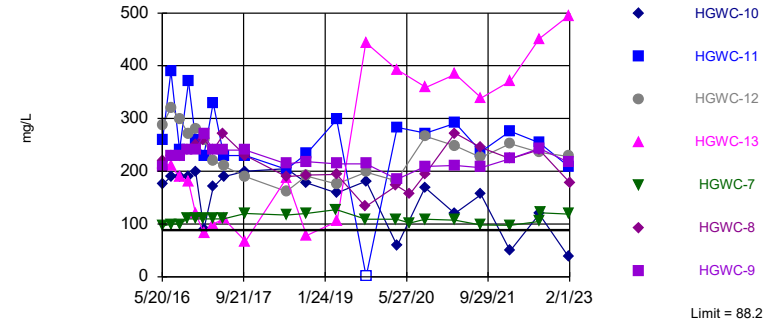


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 89 background values. Annual per-constituent alpha = 0.0068. Individual comparison alpha = 0.0004864 (1 of 2). Comparing 7 points to limit.

Constituent: pH, Field Analysis Run 4/14/2023 12:32 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

Exceeds Limit: HGWC-11, HGWC-12, HGWC-13, HGWC-7, HGWC-8, HGWC-9

Prediction Limit
Interwell Non-parametric

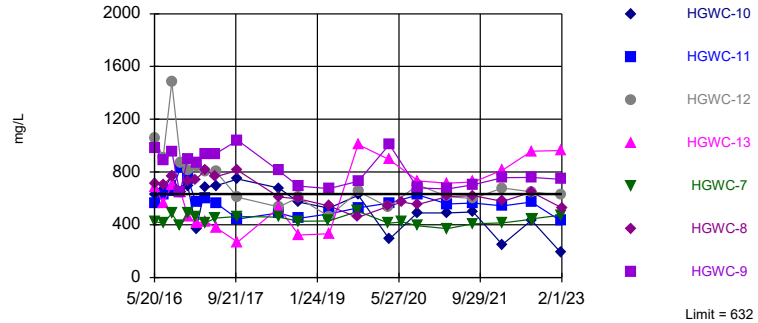


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 80 background values. 1.25% NDs. Annual per-constituent alpha = 0.004169. Individual comparison alpha = 0.0002983 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 4/14/2023 12:32 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

Exceeds Limit: HGWC-13, HGWC-9

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 80 background values. Annual per-constituent alpha = 0.004169. Individual comparison alpha = 0.0002983 (1 of 2). Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:32 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-11 | HGWC-13 | HGWC-10 | HGWC-9 |
|------------|-------------|-------------|-------------|--------|--------|---------|----------|---------|--------|
| 5/19/2016 | 0.0214 (J) | <0.04 | 0.0321 (J) | | | | | | |
| 5/20/2016 | | | | 0.885 | 1.71 | | | | |
| 5/23/2016 | | | | | | 0.787 | 2.15 | 0.72 | 1.76 |
| 7/11/2016 | 0.0142 (J) | | 0.0337 (J) | | | | | | |
| 7/12/2016 | | 0.0074 (J) | | 0.857 | 1.43 | 1.17 | 1.91 | 0.778 | 1.56 |
| 8/30/2016 | 0.0074 (J) | <0.04 | 0.0173 (J) | | | | | | |
| 9/1/2016 | | | | 0.904 | 1.91 | 1.49 | 2.3 | 0.786 | 2 |
| 10/19/2016 | 0.0224 (J) | 0.0085 (J) | 0.0341 (J) | | | | | | |
| 10/20/2016 | | | | 0.936 | 1.72 | | | | 1.68 |
| 10/24/2016 | | | | | | 2.54 | 4.01 | 0.831 | |
| 12/6/2016 | 0.0211 (J) | 0.0085 (J) | 0.0326 (J) | 1.06 | 2.06 | | | | 2.15 |
| 12/7/2016 | | | | | | 2.96 | 3.85 | 1.01 | |
| 1/24/2017 | 0.0165 (J) | 0.01 (J) | 0.0365 (J) | | | | | | |
| 1/25/2017 | | | | 0.764 | 2.01 | | | | |
| 1/26/2017 | | | | | | 2.23 | 2.45 | 0.108 | 1.87 |
| 3/21/2017 | 0.0187 (J) | 0.0079 (J) | 0.0349 (J) | 0.857 | 2.08 | | | | |
| 3/22/2017 | | | | | | 0.84 | 1.99 | 0.788 | 1.99 |
| 5/22/2017 | 0.0782 | 0.0131 (J) | 0.0475 | | | | | | |
| 5/23/2017 | | | | 0.91 | 2.32 | | | | 2.29 |
| 5/24/2017 | | | | | | 2.29 | 1.74 | 0.814 | |
| 10/3/2017 | 0.0198 (J) | 0.0097 (J) | 0.0386 (J) | 0.967 | 2.84 | 1.47 | 1.43 | 0.871 | 2.05 |
| 6/4/2018 | 0.02 (J) | 0.017 (J) | 0.036 (J) | | | | | | |
| 6/5/2018 | | | | 0.86 | | 1.3 | 1.3 | 1.2 | |
| 6/6/2018 | | | | | 2.6 | | | | 2.3 |
| 10/1/2018 | 0.013 (J) | 0.0061 (J) | 0.035 (J) | | | | | | |
| 10/2/2018 | | | | 0.98 | 2.7 | | | 0.62 | 2.5 |
| 10/3/2018 | | | | | | 0.91 | | | |
| 10/5/2018 | | | | | | | 1.6 | | |
| 4/1/2019 | | 0.0066 (J) | | | | | | | |
| 4/2/2019 | 0.016 (J) | | 0.034 (J) | 0.99 | | | | | |
| 4/3/2019 | | | | | 2.8 | 0.23 | | 0.66 | 2.3 |
| 4/5/2019 | | | | | | | 0.86 (J) | | |
| 9/23/2019 | 0.021 (J) | 0.0081 (J) | 0.04 (J) | | | | | | |
| 9/24/2019 | | | | | 2.8 | | | | |
| 9/25/2019 | | | | 1.1 | | | | | |
| 9/26/2019 | | | | | | | 1.7 | | |
| 9/27/2019 | | | | | | 0.53 | | 1 | 2.9 |
| 3/25/2020 | 0.025 (J) | 0.0096 (J) | 0.039 (J) | | | | | | |
| 3/26/2020 | | | | | | | | | |
| 3/27/2020 | | | | 1.2 | 2.4 | | | | |
| 3/30/2020 | | | | | | | 1.8 | | |
| 3/31/2020 | | | | | | 0.17 | | | 2.2 |
| 4/1/2020 | | | | | | | | 0.23 | |
| 6/16/2020 | 0.021 (J) | 0.01 (J) | | | 2.2 | | | | |
| 6/17/2020 | | | | 1 | | | | | |
| 9/15/2020 | 0.017 (J) | 0.0071 (J) | 0.044 (J) | | | | | | |
| 9/16/2020 | | | | 1.1 | 1.9 | | | 1.1 | |
| 9/17/2020 | | | | | | | | | 2 |
| 9/18/2020 | | | | | | 0.91 | | | |
| 9/21/2020 | | | | | | | 1.6 | | |
| 11/10/2020 | | | | | | | | | |
| 12/15/2020 | | | | | | | | | |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-11 | HGWC-13 | HGWC-10 | HGWC-9 |
|-----------|-------------|-------------|-------------|--------|--------|---------|---------|---------|--------|
| 1/19/2021 | | | | | | | | | |
| 3/10/2021 | 0.015 (J) | | | | | | | | |
| 3/11/2021 | | 0.015 (J) | 0.056 | | | | | | |
| 3/12/2021 | | | | | | | | 0.64 | |
| 3/15/2021 | | | | 1.1 | 1.7 | | | | |
| 3/16/2021 | | | | | | 0.53 | | | 2.2 |
| 3/17/2021 | | | | | | | 0.89 | | |
| 8/11/2021 | 0.02 (J) | | | | | | | | |
| 8/12/2021 | | <0.04 | 0.044 | | | | | | |
| 8/13/2021 | | | | | | | | | |
| 8/16/2021 | | | | 1.1 | | | | | |
| 8/17/2021 | | | | | | | | 0.88 | 2.3 |
| 8/18/2021 | | | | | 1.8 | 0.91 | | | |
| 8/19/2021 | | | | | | | 0.73 | | |
| 2/1/2022 | 0.016 (J) | 0.011 (J) | 0.056 | | | | | | |
| 2/9/2022 | | | | | | 1 | | 0.1 | 2.3 |
| 2/10/2022 | | | | 1.3 | 1.7 | | 1 | | |
| 8/2/2022 | 0.012 (J) | <0.04 | 0.047 | | | | | | |
| 8/3/2022 | | | | 1.1 | 1.5 | 0.64 | 0.76 | 0.53 | |
| 8/4/2022 | | | | | | | | | 2 |
| 8/11/2022 | | | | 1.1 | | | | | |
| 1/23/2023 | | 0.012 (J) | | | | | | | |
| 1/24/2023 | 0.015 (J) | | 0.046 | | | | | | |
| 1/26/2023 | | | | | | 0.5 | 0.83 | | 1.9 |
| 1/27/2023 | | | | 0.93 | | | | 0.065 | |
| 2/1/2023 | | | | | 1.9 | | | | |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-12 | HGWA-44D (bg) | HGWA-43D (bg) |
|------------|---------|---------------|---------------|
| 5/19/2016 | | | |
| 5/20/2016 | | | |
| 5/23/2016 | 2.2 | | |
| 7/11/2016 | | | |
| 7/12/2016 | 1.98 | | |
| 8/30/2016 | | | |
| 9/1/2016 | 2.28 | | |
| 10/19/2016 | | | |
| 10/20/2016 | | | |
| 10/24/2016 | 2.75 | | |
| 12/6/2016 | | | |
| 12/7/2016 | 3.35 | | |
| 1/24/2017 | | | |
| 1/25/2017 | | | |
| 1/26/2017 | 3.07 | | |
| 3/21/2017 | | | |
| 3/22/2017 | 3.04 | | |
| 5/22/2017 | | | |
| 5/23/2017 | | | |
| 5/24/2017 | 2.95 | | |
| 10/3/2017 | 2.35 | | |
| 6/4/2018 | | | |
| 6/5/2018 | | | |
| 6/6/2018 | 2.5 | | |
| 10/1/2018 | | | |
| 10/2/2018 | | | |
| 10/3/2018 | 2.3 | | |
| 10/5/2018 | | | |
| 4/1/2019 | | | |
| 4/2/2019 | | | |
| 4/3/2019 | 1.8 | | |
| 4/5/2019 | | | |
| 9/23/2019 | | | |
| 9/24/2019 | | | |
| 9/25/2019 | | | |
| 9/26/2019 | | | |
| 9/27/2019 | 2.1 | | |
| 3/25/2020 | | | |
| 3/26/2020 | 1.6 | | |
| 3/27/2020 | | | |
| 3/30/2020 | | | |
| 3/31/2020 | | | |
| 4/1/2020 | | | |
| 6/16/2020 | | | |
| 6/17/2020 | | | |
| 9/15/2020 | | | |
| 9/16/2020 | | 0.23 | 0.061 (J) |
| 9/17/2020 | | | |
| 9/18/2020 | 1.6 | | |
| 9/21/2020 | | | |
| 11/10/2020 | | 0.29 | 0.057 (J) |
| 12/15/2020 | | 0.31 | 0.052 (J) |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-12 | HGWA-44D (bg) | HGWA-43D (bg) |
|-----------|---------|---------------|---------------|
| 1/19/2021 | | 0.4 | 0.049 (J) |
| 3/10/2021 | | 0.39 | |
| 3/11/2021 | | | 0.06 |
| 3/12/2021 | | | |
| 3/15/2021 | | | |
| 3/16/2021 | 1.9 | | |
| 3/17/2021 | | | |
| 8/11/2021 | | | 0.042 |
| 8/12/2021 | | | |
| 8/13/2021 | | 0.31 | |
| 8/16/2021 | | | |
| 8/17/2021 | | | |
| 8/18/2021 | 1.9 | | |
| 8/19/2021 | | | |
| 2/1/2022 | | 0.44 | 0.05 |
| 2/9/2022 | 2 | | |
| 2/10/2022 | | | |
| 8/2/2022 | | 0.31 | 0.043 |
| 8/3/2022 | 1.5 | | |
| 8/4/2022 | | | |
| 8/11/2022 | | | |
| 1/23/2023 | | | |
| 1/24/2023 | | 0.44 | 0.037 (J) |
| 1/26/2023 | 1.5 | | |
| 1/27/2023 | | | |
| 2/1/2023 | | | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-11 | HGWC-13 | HGWC-10 | HGWC-9 |
|-----------|-------------|-------------|-------------|--------|--------|---------|---------|----------|--------|
| 1/19/2021 | | | | | | | | | |
| 3/10/2021 | 111 | | | | | | | | |
| 3/11/2021 | | 83.8 | 43.8 | | | | | | |
| 3/12/2021 | | | | | | | | 146 (M1) | |
| 3/15/2021 | | | | 113 | 156 | | | | |
| 3/16/2021 | | | | | | 132 | | | 182 |
| 3/17/2021 | | | | | | | 184 | | |
| 8/11/2021 | 113 | | | | | | | | |
| 8/12/2021 | | 84 | 21.9 | | | | | | |
| 8/13/2021 | | | | | | | | | |
| 8/16/2021 | | | | 112 | | | | | |
| 8/17/2021 | | | | | | | | 153 | 183 |
| 8/18/2021 | | | | | 147 | 128 | | | |
| 8/19/2021 | | | | | | | 179 | | |
| 2/1/2022 | 106 | 85.1 | 27.2 | | | | | | |
| 2/9/2022 | | | | | | 144 | | 76.8 | 183 |
| 2/10/2022 | | | | 108 | 153 | | 206 | | |
| 8/2/2022 | 117 | 84.6 | 31.2 | | | | | | |
| 8/3/2022 | | | | 125 | 153 | 131 | 237 | 125 | |
| 8/4/2022 | | | | | | | | | 196 |
| 8/11/2022 | | | | 119 | | | | | |
| 1/23/2023 | | 85 | | | | | | | |
| 1/24/2023 | 117 | | 29.4 | | | | | | |
| 1/26/2023 | | | | | | 113 | 234 | | 173 |
| 1/27/2023 | | | | 124 | | | | 60.4 | |
| 2/1/2023 | | | | | 110 | | | | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-12 | HGWA-44D (bg) | HGWA-43D (bg) |
|------------|---------|---------------|---------------|
| 5/19/2016 | | | |
| 5/20/2016 | | | |
| 5/23/2016 | 195 | | |
| 7/11/2016 | | | |
| 7/12/2016 | 181 | | |
| 8/30/2016 | | | |
| 9/1/2016 | 179 | | |
| 10/19/2016 | | | |
| 10/20/2016 | | | |
| 10/24/2016 | 193 | | |
| 12/6/2016 | | | |
| 12/7/2016 | 193 | | |
| 1/24/2017 | | | |
| 1/25/2017 | | | |
| 1/26/2017 | 172 | | |
| 3/21/2017 | | | |
| 3/22/2017 | 162 | | |
| 5/22/2017 | | | |
| 5/23/2017 | | | |
| 5/24/2017 | 158 | | |
| 10/3/2017 | 130 | | |
| 6/4/2018 | | | |
| 6/5/2018 | | | |
| 6/6/2018 | 136 | | |
| 10/1/2018 | | | |
| 10/2/2018 | | | |
| 10/3/2018 | 125 | | |
| 10/5/2018 | | | |
| 4/1/2019 | | | |
| 4/2/2019 | | | |
| 4/3/2019 | 114 | | |
| 4/5/2019 | | | |
| 9/23/2019 | | | |
| 9/24/2019 | | | |
| 9/25/2019 | | | |
| 9/26/2019 | | | |
| 9/27/2019 | 153 | | |
| 3/25/2020 | | | |
| 3/26/2020 | 145 | | |
| 3/27/2020 | | | |
| 3/30/2020 | | | |
| 3/31/2020 | | | |
| 4/1/2020 | | | |
| 6/16/2020 | | | |
| 6/17/2020 | | | |
| 9/15/2020 | | | |
| 9/16/2020 | | 30 | 56 |
| 9/17/2020 | | | |
| 9/18/2020 | 163 | | |
| 9/21/2020 | | | |
| 11/10/2020 | | 33.6 | 63.3 |
| 12/15/2020 | | 28.7 | 62.6 |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-12 | HGWA-44D (bg) | HGWA-43D (bg) |
|-----------|---------|---------------|---------------|
| 1/19/2021 | | 33 | 60.1 |
| 3/10/2021 | | 5.9 | |
| 3/11/2021 | | | 59.6 |
| 3/12/2021 | | | |
| 3/15/2021 | | | |
| 3/16/2021 | 166 | | |
| 3/17/2021 | | | |
| 8/11/2021 | | | 61 |
| 8/12/2021 | | | |
| 8/13/2021 | | 28.9 | |
| 8/16/2021 | | | |
| 8/17/2021 | | | |
| 8/18/2021 | 163 | | |
| 8/19/2021 | | | |
| 2/1/2022 | | 24.8 | 55.9 |
| 2/9/2022 | 172 | | |
| 2/10/2022 | | | |
| 8/2/2022 | | 20.9 | 54.1 |
| 8/3/2022 | 167 | | |
| 8/4/2022 | | | |
| 8/11/2022 | | | |
| 1/23/2023 | | | |
| 1/24/2023 | | 13.2 | 56.6 |
| 1/26/2023 | 154 | | |
| 1/27/2023 | | | |
| 2/1/2023 | | | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-11 | HGWC-13 | HGWC-10 | HGWC-9 |
|-----------|-------------|-------------|-------------|--------|--------|---------|---------|---------|--------|
| 1/19/2021 | | | | | | | | | |
| 3/10/2021 | 7.4 | | | | | | | | |
| 3/11/2021 | | 5.9 | 5.1 | | | | | | |
| 3/12/2021 | | | | | | | | 35 | |
| 3/15/2021 | | | | 44.5 | 72.4 | | | | |
| 3/16/2021 | | | | | | 11.5 | | | 94.7 |
| 3/17/2021 | | | | | | | 31.4 | | |
| 8/11/2021 | 9.6 | | | | | | | | |
| 8/12/2021 | | 4.8 | 5.2 | | | | | | |
| 8/13/2021 | | | | | | | | | |
| 8/16/2021 | | | | 40.3 | | | | | |
| 8/17/2021 | | | | | | | | 28.3 | 88.6 |
| 8/18/2021 | | | | | 50.9 | 19.9 | | | |
| 8/19/2021 | | | | | | | 24.4 | | |
| 2/1/2022 | 7.5 | 5.7 | 7 | | | | | | |
| 2/9/2022 | | | | | | 20.4 | | 1.2 | 84.4 |
| 2/10/2022 | | | | 39.8 | 48.2 | | 17.4 | | |
| 8/2/2022 | 14.1 | 5.9 | 7.8 | | | | | | |
| 8/3/2022 | | | | 37.9 | 54.1 | 13.8 | 13 | 12.3 | |
| 8/4/2022 | | | | | | | | | 86.8 |
| 8/11/2022 | | | | 37.7 | | | | | |
| 1/23/2023 | | 5.6 | | | | | | | |
| 1/24/2023 | 9 | | 7.1 | | | | | | |
| 1/26/2023 | | | | | | 8.8 | 12.5 | | 86.9 |
| 1/27/2023 | | | | 40 | | | | 1.6 | |
| 2/1/2023 | | | | | 52.4 | | | | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-12 | HGWA-44D (bg) | HGWA-43D (bg) |
|------------|---------|---------------|---------------|
| 5/19/2016 | | | |
| 5/20/2016 | | | |
| 5/23/2016 | 160 | | |
| 7/11/2016 | | | |
| 7/12/2016 | 160 | | |
| 8/30/2016 | | | |
| 9/1/2016 | 140 | | |
| 10/19/2016 | | | |
| 10/20/2016 | | | |
| 10/24/2016 | 160 | | |
| 12/6/2016 | | | |
| 12/7/2016 | 190 | | |
| 1/24/2017 | | | |
| 1/25/2017 | | | |
| 1/26/2017 | 160 | | |
| 3/21/2017 | | | |
| 3/22/2017 | 130 | | |
| 5/22/2017 | | | |
| 5/23/2017 | | | |
| 5/24/2017 | 120 | | |
| 10/3/2017 | 93 | | |
| 6/4/2018 | | | |
| 6/5/2018 | | | |
| 6/6/2018 | 46.4 | | |
| 10/1/2018 | | | |
| 10/2/2018 | | | |
| 10/3/2018 | 88.4 | | |
| 10/5/2018 | | | |
| 4/1/2019 | | | |
| 4/2/2019 | | | |
| 4/3/2019 | 62.8 | | |
| 4/5/2019 | | | |
| 9/23/2019 | | | |
| 9/24/2019 | | | |
| 9/25/2019 | | | |
| 9/26/2019 | | | |
| 9/27/2019 | 81 | | |
| 3/25/2020 | | | |
| 3/26/2020 | 48 | | |
| 3/27/2020 | | | |
| 3/30/2020 | | | |
| 3/31/2020 | | | |
| 4/1/2020 | | | |
| 6/16/2020 | | | |
| 6/17/2020 | | | |
| 9/15/2020 | | | |
| 9/16/2020 | | 7.2 | 4.1 |
| 9/17/2020 | | | |
| 9/18/2020 | 74.6 | | |
| 9/21/2020 | | | |
| 11/10/2020 | | 7.8 | 4.4 |
| 12/15/2020 | | 9.4 | 4.7 |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-12 | HGWA-44D (bg) | HGWA-43D (bg) |
|-----------|---------|---------------|---------------|
| 1/19/2021 | | 9.5 | 4.1 |
| 3/10/2021 | | 12.3 | |
| 3/11/2021 | | | 4.5 |
| 3/12/2021 | | | |
| 3/15/2021 | | | |
| 3/16/2021 | 56.8 | | |
| 3/17/2021 | | | |
| 8/11/2021 | | | 3.5 |
| 8/12/2021 | | | |
| 8/13/2021 | | 39.9 | |
| 8/16/2021 | | | |
| 8/17/2021 | | | |
| 8/18/2021 | 47.3 | | |
| 8/19/2021 | | | |
| 2/1/2022 | | 44.8 | 4.1 |
| 2/9/2022 | 46.8 | | |
| 2/10/2022 | | | |
| 8/2/2022 | | 19.8 | 4.3 |
| 8/3/2022 | 39.2 | | |
| 8/4/2022 | | | |
| 8/11/2022 | | | |
| 1/23/2023 | | | |
| 1/24/2023 | | 24.9 | 4.3 |
| 1/26/2023 | 34.6 | | |
| 1/27/2023 | | | |
| 2/1/2023 | | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-12 | HGWC-13 | HGWC-11 | HGWC-9 |
|------------|-------------|-------------|-------------|------------|--------|-----------|------------|-----------|-----------|
| 5/19/2016 | 0.105 (J) | 0.0513 (J) | 0.0303 (J) | | | | | | |
| 5/20/2016 | | | | 0.0828 (J) | 0.499 | | | | |
| 5/23/2016 | | | | | | 0.212 (J) | 0.2587 (J) | 0.203 (J) | <0.1 |
| 7/11/2016 | 0.16 (J) | | 0.05 (J) | | | | | | |
| 7/12/2016 | | 0.12 (J) | | 0.2 (J) | 0.67 | 0.31 | 0.53 | 0.44 | 0.24 (J) |
| 8/30/2016 | 0.09 (J) | 0.09 (J) | 0.06 (J) | | | | | | |
| 9/1/2016 | | | | 0.51 | 0.94 | 0.62 | 0.74 | 0.67 | 0.46 |
| 10/19/2016 | 0.1 (J) | 0.1 (J) | 0.04 (J) | | | | | | |
| 10/20/2016 | | | | 0.4 | 0.56 | | | | 0.56 |
| 10/24/2016 | | | | | | 0.19 (J) | 0.31 | 0.26 (J) | |
| 12/6/2016 | 0.11 (J) | 0.21 (J) | 0.36 | 0.26 (J) | 0.76 | | | | 0.31 |
| 12/7/2016 | | | | | | 0.73 | 1 | 0.55 | |
| 1/24/2017 | 0.09 (J) | 0.06 (J) | <0.1 | | | | | | |
| 1/25/2017 | | | | 0.24 (J) | 1.1 | | | | |
| 1/26/2017 | | | | | | 0.12 (J) | 0.68 | 0.27 (J) | 0.004 (J) |
| 3/21/2017 | 0.13 (J) | 0.005 (J) | <0.1 | 0.13 (J) | 0.46 | | | | |
| 3/22/2017 | | | | | | 0.44 | 0.76 | 0.66 | 0.28 (J) |
| 5/22/2017 | 0.12 (J) | 0.05 (J) | <0.1 | | | | | | |
| 5/23/2017 | | | | 0.11 (J) | 0.65 | | | | 0.29 (J) |
| 5/24/2017 | | | | | | 0.34 | 0.54 | 0.35 | |
| 10/3/2017 | 0.13 (J) | 0.13 (J) | <0.1 | 0.17 (J) | 0.66 | 0.58 | 0.83 | 0.56 | 0.53 |
| 4/2/2018 | <0.1 | | <0.1 | | | | | | |
| 4/3/2018 | | <0.1 | | <0.1 | 0.39 | | | | <0.1 |
| 4/4/2018 | | | | | | <0.1 | 0.65 | 0.39 | |
| 6/4/2018 | 0.074 (J) | <0.1 | <0.1 | | | | | | |
| 6/5/2018 | | | | 0.099 (J) | | | 0.47 | 0.24 (J) | |
| 6/6/2018 | | | | | 0.46 | 0.21 (J) | | | 0.12 (J) |
| 10/1/2018 | <0.1 | <0.1 | <0.1 | | | | | | |
| 10/2/2018 | | | | <0.1 | 0.51 | | | | 0.031 (J) |
| 10/3/2018 | | | | | | 0.15 (J) | | 0.31 | |
| 10/5/2018 | | | | | | | 0.77 | | |
| 3/12/2019 | 0.29 (J) | 0.072 (J) | 0.038 (J) | | 0.58 | | | | |
| 3/13/2019 | | | | 0.12 (J) | | | 0.78 | 0.51 | 0.14 (J) |
| 3/14/2019 | | | | | | 1.1 | | | |
| 4/1/2019 | | 0.029 (J) | | | | | | | |
| 4/2/2019 | 0.1 (J) | | 0.071 (J) | 0.097 (J) | | | | | |
| 4/3/2019 | | | | | 0.63 | 0.3 (J) | | 0.43 | 0.14 (J) |
| 4/5/2019 | | | | | | | 0.83 | | |
| 9/23/2019 | 0.078 (J) | <0.1 | <0.1 | | | | | | |
| 9/24/2019 | | | | | 0.49 | | | | |
| 9/25/2019 | | | | 0.1 (J) | | | | | |
| 9/26/2019 | | | | | | | 0.64 | | |
| 9/27/2019 | | | | | | 0.26 (J) | | 0.42 | 0.26 (J) |
| 3/2/2020 | 0.076 (J) | <0.1 | <0.1 | | | | | | |
| 3/3/2020 | | | | | 0.45 | 0.21 (J) | | 0.24 (J) | |
| 3/4/2020 | | | | 0.077 (J) | | | 0.37 | | 0.08 (J) |
| 3/25/2020 | 0.098 (J) | <0.1 | <0.1 | | | | | | |
| 3/26/2020 | | | | | | 0.17 (J) | | | |
| 3/27/2020 | | | | 0.059 (J) | 0.46 | | | | |
| 3/30/2020 | | | | | | | 0.44 | | |
| 3/31/2020 | | | | | | | | 0.19 (J) | 0.074 (J) |
| 4/1/2020 | | | | | | | | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-12 | HGWC-13 | HGWC-11 | HGWC-9 |
|------------|-------------|-------------|-------------|-----------|--------|---------|---------|---------|-----------|
| 6/16/2020 | 0.071 (J) | <0.1 | | | 0.45 | | | | |
| 6/17/2020 | | | | 0.077 (J) | | | | | |
| 9/15/2020 | 0.082 (J) | <0.1 | <0.1 | | | | | | |
| 9/16/2020 | | | | 0.081 (J) | 0.53 | | | | |
| 9/17/2020 | | | | | | | | | 0.1 |
| 9/18/2020 | | | | | | 0.15 | | 0.15 | |
| 9/21/2020 | | | | | | | 0.44 | | |
| 11/10/2020 | | | | | | | | | |
| 12/15/2020 | | | | | | | | | |
| 1/19/2021 | | | | | | | | | |
| 2/8/2021 | 0.078 (J) | | | | | | | | |
| 2/9/2021 | | 0.074 (J) | <0.1 | | | | | | |
| 2/10/2021 | | | | 0.085 (J) | | | | | |
| 2/12/2021 | | | | | | 0.19 | | 0.17 | |
| 2/15/2021 | | | | | | | | | |
| 2/16/2021 | | | | | 0.47 | | | | 0.096 (J) |
| 2/22/2021 | | | | | | | 0.55 | | |
| 3/10/2021 | 0.079 (J) | | | | | | | | |
| 3/11/2021 | | <0.1 | 0.1 | | | | | | |
| 3/12/2021 | | | | | | | | | |
| 3/15/2021 | | | | 0.086 (J) | 0.51 | | | | |
| 3/16/2021 | | | | | | 0.2 | | 0.21 | 0.098 (J) |
| 3/17/2021 | | | | | | | 0.65 | | |
| 8/11/2021 | 0.058 (J) | | | | | | | | |
| 8/12/2021 | | <0.1 | <0.1 | | | | | | |
| 8/13/2021 | | | | | | | | | |
| 8/16/2021 | | | | 0.084 (J) | | | | | |
| 8/17/2021 | | | | | | | | | 0.095 (J) |
| 8/18/2021 | | | | | 0.41 | 0.15 | | 0.21 | |
| 8/19/2021 | | | | | | | 0.53 | | |
| 2/1/2022 | 0.064 (J) | <0.1 | <0.1 | | | | | | |
| 2/9/2022 | | | | | | 0.2 | | 0.2 | 0.1 |
| 2/10/2022 | | | | 0.083 (J) | 0.42 | | 0.53 | | |
| 8/2/2022 | 0.09 (J) | 0.067 (J) | 0.053 (J) | | | | | | |
| 8/3/2022 | | | | 0.11 | 0.44 | 0.21 | 0.55 | 0.22 | |
| 8/4/2022 | | | | | | | | | 0.13 |
| 8/11/2022 | | | | 0.11 | | | | | |
| 1/23/2023 | | 0.061 (J) | | | | | | | |
| 1/24/2023 | 0.089 (J) | | 0.053 (J) | | | | | | |
| 1/26/2023 | | | | | | 0.21 | 0.4 | 0.2 | 0.11 |
| 1/27/2023 | | | | 0.1 | | | | | |
| 2/1/2023 | | | | | 0.4 | | | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWA-43D (bg) | HGWA-44D (bg) |
|------------|------------|---------------|---------------|
| 5/19/2016 | | | |
| 5/20/2016 | | | |
| 5/23/2016 | 0.0394 (J) | | |
| 7/11/2016 | | | |
| 7/12/2016 | 0.15 (J) | | |
| 8/30/2016 | | | |
| 9/1/2016 | 0.5 | | |
| 10/19/2016 | | | |
| 10/20/2016 | | | |
| 10/24/2016 | 0.06 (J) | | |
| 12/6/2016 | | | |
| 12/7/2016 | 0.44 | | |
| 1/24/2017 | | | |
| 1/25/2017 | | | |
| 1/26/2017 | 0.29 (J) | | |
| 3/21/2017 | | | |
| 3/22/2017 | 0.34 | | |
| 5/22/2017 | | | |
| 5/23/2017 | | | |
| 5/24/2017 | 0.13 (J) | | |
| 10/3/2017 | 0.46 | | |
| 4/2/2018 | | | |
| 4/3/2018 | | | |
| 4/4/2018 | <0.1 | | |
| 6/4/2018 | | | |
| 6/5/2018 | <0.1 | | |
| 6/6/2018 | | | |
| 10/1/2018 | | | |
| 10/2/2018 | 0.17 (J) | | |
| 10/3/2018 | | | |
| 10/5/2018 | | | |
| 3/12/2019 | | | |
| 3/13/2019 | 0.17 (J) | | |
| 3/14/2019 | | | |
| 4/1/2019 | | | |
| 4/2/2019 | | | |
| 4/3/2019 | 0.082 (J) | | |
| 4/5/2019 | | | |
| 9/23/2019 | | | |
| 9/24/2019 | | | |
| 9/25/2019 | | | |
| 9/26/2019 | | | |
| 9/27/2019 | 0.17 (J) | | |
| 3/2/2020 | | | |
| 3/3/2020 | 0.11 (J) | | |
| 3/4/2020 | | | |
| 3/25/2020 | | | |
| 3/26/2020 | | | |
| 3/27/2020 | | | |
| 3/30/2020 | | | |
| 3/31/2020 | | | |
| 4/1/2020 | 0.12 (J) | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWA-43D (bg) | HGWA-44D (bg) |
|------------|-----------|---------------|---------------|
| 6/16/2020 | | | |
| 6/17/2020 | | | |
| 9/15/2020 | | | |
| 9/16/2020 | <0.1 | 0.22 | 0.52 |
| 9/17/2020 | | | |
| 9/18/2020 | | | |
| 9/21/2020 | | | |
| 11/10/2020 | | 0.19 | 0.59 |
| 12/15/2020 | | 0.21 | 0.67 |
| 1/19/2021 | | 0.16 | 0.74 |
| 2/8/2021 | | | |
| 2/9/2021 | | 0.19 | 0.44 |
| 2/10/2021 | | | |
| 2/12/2021 | | | |
| 2/15/2021 | 0.08 (J) | | |
| 2/16/2021 | | | |
| 2/22/2021 | | | |
| 3/10/2021 | | | 0.65 |
| 3/11/2021 | | 0.2 | |
| 3/12/2021 | 0.054 (J) | | |
| 3/15/2021 | | | |
| 3/16/2021 | | | |
| 3/17/2021 | | | |
| 8/11/2021 | | 0.15 | |
| 8/12/2021 | | | |
| 8/13/2021 | | | 0.87 |
| 8/16/2021 | | | |
| 8/17/2021 | <0.1 | | |
| 8/18/2021 | | | |
| 8/19/2021 | | | |
| 2/1/2022 | | 0.19 | 0.96 |
| 2/9/2022 | 0.12 | | |
| 2/10/2022 | | | |
| 8/2/2022 | | 0.22 | 0.8 |
| 8/3/2022 | 0.13 | | |
| 8/4/2022 | | | |
| 8/11/2022 | | | |
| 1/23/2023 | | | |
| 1/24/2023 | | 0.23 | 1.3 |
| 1/26/2023 | | | |
| 1/27/2023 | 0.16 | | |
| 2/1/2023 | | | |

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/14/2023 12:39 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-13 | HGWC-12 | HGWC-10 | HGWC-9 |
|------------|-------------|-------------|-------------|--------|--------|---------|---------|---------|--------|
| 5/19/2016 | 7.27 | 7.45 | 5.81 | | | | | | |
| 5/20/2016 | | | | 7.14 | 6.99 | | | | |
| 5/23/2016 | | | | | | 7.14 | 7.15 | 6.83 | 7.23 |
| 7/11/2016 | 7.06 | | 5.68 | | | | | | |
| 7/12/2016 | | 7.32 | | 7.13 | 6.88 | 7.04 | 6.87 | 6.58 | 6.87 |
| 8/30/2016 | 7.28 | 7.43 | 5.63 | | | | | | |
| 9/1/2016 | | | | 7.29 | 6.73 | 7.24 | 7.2 | 6.54 | 7.15 |
| 10/19/2016 | 7.02 | 7.03 | 5.46 | | | | | | |
| 10/20/2016 | | | | 7.1 | 6.9 | | | | 7.05 |
| 10/24/2016 | | | | | | 6.9 | 7.1 | 6.59 | |
| 12/6/2016 | 7.09 | 7.08 | 5.38 | 7.15 | 6.98 | | | | 7.15 |
| 12/7/2016 | | | | | | 6.91 | 6.92 | 6.56 | |
| 1/24/2017 | 7.2 | 7.39 | 5.37 | | | | | | |
| 1/25/2017 | | | | 7.11 | 7.04 | | | | |
| 1/26/2017 | | | | | | 7.08 | 7.05 | 6.83 | 6.99 |
| 3/21/2017 | 7.01 | 6.83 | 4.9 | 7.12 | 6.87 | | | | |
| 3/22/2017 | | | | | | 7.13 | 7.08 | 6.66 | 7.03 |
| 5/22/2017 | 7.11 | 7.02 | 5.2 | | | | | | |
| 5/23/2017 | | | | 7.08 | 6.87 | | | | 7.05 |
| 5/24/2017 | | | | | | 7.15 | 7.11 | 6.67 | |
| 10/3/2017 | 7.21 | 7.47 | 5.3 | 7.21 | 6.72 | 7.32 | 7.01 | 6.54 | 7.07 |
| 4/2/2018 | 7.1 | | 5.4 | | | | | | |
| 4/3/2018 | | 7.38 | | 7.14 | 6.87 | | | | 6.99 |
| 4/4/2018 | | | | | | 7.27 | 7.12 | 6.61 | |
| 6/4/2018 | 7.06 | 7.38 | 5.27 | | | | | | |
| 6/5/2018 | | | | 7.13 | | 7.2 | | 6.65 | |
| 6/6/2018 | | | | | 6.9 | | 7.12 | | 7.02 |
| 10/1/2018 | 7.09 | 7.13 | 5.31 | | | | | | |
| 10/2/2018 | | | | 7.12 | 6.9 | | | 6.55 | 7.05 |
| 10/3/2018 | | | | | | | 7.08 | | |
| 10/5/2018 | | | | | | 7.24 | | | |
| 3/12/2019 | 7.03 | 7.29 | 5.42 | | 6.91 | | | | |
| 3/13/2019 | | | | 7.27 | | 7.24 | | 6.7 | 7.06 |
| 3/14/2019 | | | | | | | 7.09 | | |
| 4/1/2019 | | 7.16 | | | | | | | |
| 4/2/2019 | 6.86 | | 5.41 | 7.27 | | | | | |
| 4/3/2019 | | | | | 6.85 | | 6.96 | 6.55 | 6.88 |
| 4/5/2019 | | | | | | 7.24 | | | |
| 9/23/2019 | 7.02 | 7.3 | 5.33 | | | | | | |
| 9/24/2019 | | | | | 6.95 | | | | |
| 9/25/2019 | | | | 7.11 | | | | | |
| 9/26/2019 | | | | | | 6.94 | | | |
| 9/27/2019 | | | | | | | 7.07 | 6.64 | 7.01 |
| 3/2/2020 | 7.1 | 7.12 | 5.43 | | | | | | |
| 3/3/2020 | | | | | 7.06 | | 6.95 | 6.67 | |
| 3/4/2020 | | | | 7.17 | | 7.16 | | | 6.97 |
| 3/25/2020 | 6.95 | 7.4 | 5.36 | | | | | | |
| 3/26/2020 | | | | | | | 6.99 | | |
| 3/27/2020 | | | | 7.05 | 6.95 | | | | |
| 3/30/2020 | | | | | | 6.91 | | | |
| 3/31/2020 | | | | | | | | | 7.07 |
| 4/1/2020 | | | | | | | 6.84 | | |

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/14/2023 12:39 PM View: Appendix III
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-13 | HGWC-12 | HGWC-10 | HGWC-9 |
|------------|-------------|-------------|-------------|---------|----------|---------|---------|---------|--------|
| 6/16/2020 | 6.97 (D) | 7.31 (D) | | | 6.97 (D) | | | | |
| 6/17/2020 | | | | 7.2 (D) | | | | | |
| 9/15/2020 | 7.15 | 7.29 | 5.22 | | | | | | |
| 9/16/2020 | | | | 7.3 | 6.92 | | | 6.66 | |
| 9/17/2020 | | | | | | | | | 6.99 |
| 9/18/2020 | | | | | | | 7.15 | | |
| 9/21/2020 | | | | | | 7.34 | | | |
| 11/10/2020 | | | | | | | | | |
| 12/15/2020 | | | | | | | | | |
| 1/19/2021 | | | | | | | | | |
| 2/8/2021 | 7.11 | | | | | | | | |
| 2/9/2021 | | 7.23 | 5.42 | | | | | | |
| 2/10/2021 | | | | 7.29 | | | | | |
| 2/12/2021 | | | | | | | 6.23 | | |
| 2/15/2021 | | | | | | | | 6.83 | |
| 2/16/2021 | | | | | 7.16 | | | | 7.26 |
| 2/22/2021 | | | | | | 7.27 | | | |
| 3/10/2021 | 6.95 | | | | | | | | |
| 3/11/2021 | | 7.33 | 5.8 | | | | | | |
| 3/12/2021 | | | | | | | | 6.76 | |
| 3/15/2021 | | | | 7.19 | 7.09 | | | | |
| 3/16/2021 | | | | | | | 7.15 | | 7.1 |
| 3/17/2021 | | | | | | 7.33 | | | |
| 8/11/2021 | 6.98 | | | | | | | | |
| 8/12/2021 | | 7.31 | 5.05 | | | | | | |
| 8/13/2021 | | | | | | | | | |
| 8/16/2021 | | | | 7.12 | | | | | |
| 8/17/2021 | | | | | | | | 6.75 | 7.1 |
| 8/18/2021 | | | | | 7.02 | | 6.89 | | |
| 8/19/2021 | | | | | | 7.38 | | | |
| 2/1/2022 | 7.19 | 7.45 | 5.24 | | | | | | |
| 2/9/2022 | | | | | | | 7.23 | 7 | 7.3 |
| 2/10/2022 | | | | 7.22 | 6.99 | 7.54 | | | |
| 8/3/2022 | | | | 6.93 | 6.84 | 7.09 | 7.13 | 6.73 | |
| 8/4/2022 | | | | | | | | | 7.03 |
| 8/11/2022 | | | | 7.07 | | | | | |
| 1/23/2023 | | 7.32 | | | | | | | |
| 1/24/2023 | 6.76 | | 5.22 | | | | | | |
| 1/26/2023 | | | | | | 6.9 | 7.1 | | 7.07 |
| 1/27/2023 | | | | 7.25 | | | | 6.89 | |
| 2/1/2023 | | | | | 6.6 | | | | |

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/14/2023 12:39 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWA-43D (bg) | HGWA-44D (bg) |
|------------|---------|---------------|---------------|
| 5/19/2016 | | | |
| 5/20/2016 | | | |
| 5/23/2016 | 6.22 | | |
| 7/11/2016 | | | |
| 7/12/2016 | 6.04 | | |
| 8/30/2016 | | | |
| 9/1/2016 | 6.26 | | |
| 10/19/2016 | | | |
| 10/20/2016 | | | |
| 10/24/2016 | 6.46 | | |
| 12/6/2016 | | | |
| 12/7/2016 | 6.29 | | |
| 1/24/2017 | | | |
| 1/25/2017 | | | |
| 1/26/2017 | 6.46 | | |
| 3/21/2017 | | | |
| 3/22/2017 | 5.81 | | |
| 5/22/2017 | | | |
| 5/23/2017 | | | |
| 5/24/2017 | 6.51 | | |
| 10/3/2017 | 6.25 | | |
| 4/2/2018 | | | |
| 4/3/2018 | | | |
| 4/4/2018 | 5.86 | | |
| 6/4/2018 | | | |
| 6/5/2018 | 6.27 | | |
| 6/6/2018 | | | |
| 10/1/2018 | | | |
| 10/2/2018 | | | |
| 10/3/2018 | 5.97 | | |
| 10/5/2018 | | | |
| 3/12/2019 | | | |
| 3/13/2019 | 5.92 | | |
| 3/14/2019 | | | |
| 4/1/2019 | | | |
| 4/2/2019 | | | |
| 4/3/2019 | 5.69 | | |
| 4/5/2019 | | | |
| 9/23/2019 | | | |
| 9/24/2019 | | | |
| 9/25/2019 | | | |
| 9/26/2019 | | | |
| 9/27/2019 | 5.75 | | |
| 3/2/2020 | | | |
| 3/3/2020 | 5.95 | | |
| 3/4/2020 | | | |
| 3/25/2020 | | | |
| 3/26/2020 | | | |
| 3/27/2020 | | | |
| 3/30/2020 | | | |
| 3/31/2020 | 5.7 | | |
| 4/1/2020 | | | |

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/14/2023 12:39 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWA-43D (bg) | HGWA-44D (bg) |
|------------|---------|---------------|---------------|
| 6/16/2020 | | | |
| 6/17/2020 | | | |
| 9/15/2020 | | | |
| 9/16/2020 | | 7.52 | 7.83 |
| 9/17/2020 | | | |
| 9/18/2020 | 6.42 | | |
| 9/21/2020 | | | |
| 11/10/2020 | | 7.27 | 7.84 |
| 12/15/2020 | | 7.39 | 7.87 |
| 1/19/2021 | | 7.39 | 7.86 |
| 2/8/2021 | | | |
| 2/9/2021 | | 7.44 | 7.84 |
| 2/10/2021 | | | |
| 2/12/2021 | 7.27 | | |
| 2/15/2021 | | | |
| 2/16/2021 | | | |
| 2/22/2021 | | | |
| 3/10/2021 | | | 7.92 |
| 3/11/2021 | | 7.46 | |
| 3/12/2021 | | | |
| 3/15/2021 | | | |
| 3/16/2021 | 5.95 | | |
| 3/17/2021 | | | |
| 8/11/2021 | | 7.4 | |
| 8/12/2021 | | | |
| 8/13/2021 | | | 7.77 |
| 8/16/2021 | | | |
| 8/17/2021 | | | |
| 8/18/2021 | 6.1 | | |
| 8/19/2021 | | | |
| 2/1/2022 | | 7.52 | 8.25 |
| 2/9/2022 | 6.55 | | |
| 2/10/2022 | | | |
| 8/3/2022 | 6.23 | | |
| 8/4/2022 | | | |
| 8/11/2022 | | | |
| 1/23/2023 | | | |
| 1/24/2023 | | 7.56 | 8.22 |
| 1/26/2023 | 6.23 | | |
| 1/27/2023 | | | |
| 2/1/2023 | | | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-11 | HGWC-13 | HGWC-10 | HGWC-9 |
|------------|-------------|-------------|-------------|--------|--------|---------|---------|---------|--------|
| 5/19/2016 | 66.9 | 42.3 | 48.6 | | | | | | |
| 5/20/2016 | | | | 96 | 219 | | | | |
| 5/23/2016 | | | | | | 260 | 215 | 175 | 207 |
| 7/11/2016 | 41 | | 45 | | | | | | |
| 7/12/2016 | | 44 | | 100 | 230 | 390 | 210 | 190 | 230 |
| 8/30/2016 | 36 | 40 | 42 | | | | | | |
| 9/1/2016 | | | | 100 | 230 | 240 | 190 | 190 | 230 |
| 10/19/2016 | 46 | 43 | 44 | | | | | | |
| 10/20/2016 | | | | 110 | 240 | | | | 240 |
| 10/24/2016 | | | | | | 370 | 180 | 190 | |
| 12/6/2016 | 59 | 43 | 44 | 110 | 250 | | | | 240 |
| 12/7/2016 | | | | | | 260 | 120 | 200 | |
| 1/24/2017 | 46 | 48 | 46 | | | | | | |
| 1/25/2017 | | | | 110 | 260 | | | | |
| 1/26/2017 | | | | | | 230 | 83 | 90 | 270 |
| 3/21/2017 | 63 | 45 | 46 | 110 | 240 | | | | |
| 3/22/2017 | | | | | | 330 | 100 | 170 | 240 |
| 5/22/2017 | 77 | 46 | 48 | | | | | | |
| 5/23/2017 | | | | 110 | 270 | | | | 240 |
| 5/24/2017 | | | | | | 230 | 110 | 190 | |
| 10/3/2017 | 42 | 48 | 47 | 120 | 230 | 230 | 67 | 200 | 240 |
| 6/4/2018 | 71.8 | 46.6 | 47.8 | | | | | | |
| 6/5/2018 | | | | 117 | | 204 | 187 | 205 | |
| 6/6/2018 | | | | | 190 | | | | 214 |
| 10/1/2018 | 49.1 | 48.6 | 48.1 | | | | | | |
| 10/2/2018 | | | | 120 | 193 | | | 178 | 218 |
| 10/3/2018 | | | | | | 233 | | | |
| 10/5/2018 | | | | | | | 78.3 | | |
| 4/1/2019 | | 50.4 | | | | | | | |
| 4/2/2019 | 84.3 | | 48.7 | 127 | | | | | |
| 4/3/2019 | | | | | 194 | 298 | | 159 | 214 |
| 4/5/2019 | | | | | | | 105 | | |
| 9/23/2019 | 70.2 | 43.9 | 47.2 | | | | | | |
| 9/24/2019 | | | | | 133 | | | | |
| 9/25/2019 | | | | 109 | | | | | |
| 9/26/2019 | | | | | | | 444 | | |
| 9/27/2019 | | | | | | <1 | | 181 | 214 |
| 3/25/2020 | 85.9 | 50.5 | 46.3 | | | | | | |
| 3/26/2020 | | | | | | | | | |
| 3/27/2020 | | | | 109 | 173 | | | | |
| 3/30/2020 | | | | | | | 393 | | |
| 3/31/2020 | | | | | | 283 | | | 185 |
| 4/1/2020 | | | | | | | | 59 | |
| 6/16/2020 | 88.2 | 49.5 | | | 157 | | | | |
| 6/17/2020 | | | | 102 | | | | | |
| 9/15/2020 | 47.3 | 44.7 | 51.5 | | | | | | |
| 9/16/2020 | | | | 109 | 194 | | | 169 | |
| 9/17/2020 | | | | | | | | | 209 |
| 9/18/2020 | | | | | | 272 | | | |
| 9/21/2020 | | | | | | | 359 | | |
| 11/10/2020 | | | | | | | | | |
| 12/15/2020 | | | | | | | | | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-11 | HGWC-13 | HGWC-10 | HGWC-9 |
|-----------|-------------|-------------|-------------|--------|--------|---------|---------|---------|--------|
| 1/19/2021 | | | | | | | | | |
| 3/10/2021 | 49.6 | | | | | | | | |
| 3/11/2021 | | 50.4 | 52.9 | | | | | | |
| 3/12/2021 | | | | | | | | 120 | |
| 3/15/2021 | | | | 107 | 272 | | | | |
| 3/16/2021 | | | | | | 291 | | | 211 |
| 3/17/2021 | | | | | | | 384 | | |
| 8/11/2021 | 48.9 | | | | | | | | |
| 8/12/2021 | | 38.6 | 47.4 | | | | | | |
| 8/13/2021 | | | | | | | | | |
| 8/16/2021 | | | | 98.1 | | | | | |
| 8/17/2021 | | | | | | | | 156 | 207 |
| 8/18/2021 | | | | | 245 | 237 | | | |
| 8/19/2021 | | | | | | | 339 | | |
| 2/1/2022 | 43.7 | 46 | 67.1 | | | | | | |
| 2/9/2022 | | | | | | 276 | | 49.2 | 224 |
| 2/10/2022 | | | | 97.5 | 224 | | 371 | | |
| 8/2/2022 | 58.1 | 43.5 | 86.9 | | | | | | |
| 8/3/2022 | | | | 105 | 241 | 254 | 451 | 119 | |
| 8/4/2022 | | | | | | | | | 243 |
| 8/11/2022 | | | | 121 | | | | | |
| 1/23/2023 | | 39.5 | | | | | | | |
| 1/24/2023 | 48.3 | | 79.7 | | | | | | |
| 1/26/2023 | | | | | | 209 | 495 | | 217 |
| 1/27/2023 | | | | 119 | | | | 37.3 | |
| 2/1/2023 | | | | | 179 | | | | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-12 | HGWA-44D (bg) | HGWA-43D (bg) |
|------------|---------|---------------|---------------|
| 5/19/2016 | | | |
| 5/20/2016 | | | |
| 5/23/2016 | 288 | | |
| 7/11/2016 | | | |
| 7/12/2016 | 320 | | |
| 8/30/2016 | | | |
| 9/1/2016 | 300 | | |
| 10/19/2016 | | | |
| 10/20/2016 | | | |
| 10/24/2016 | 270 | | |
| 12/6/2016 | | | |
| 12/7/2016 | 280 | | |
| 1/24/2017 | | | |
| 1/25/2017 | | | |
| 1/26/2017 | 260 | | |
| 3/21/2017 | | | |
| 3/22/2017 | 220 | | |
| 5/22/2017 | | | |
| 5/23/2017 | | | |
| 5/24/2017 | 210 | | |
| 10/3/2017 | 190 | | |
| 6/4/2018 | | | |
| 6/5/2018 | | | |
| 6/6/2018 | 162 | | |
| 10/1/2018 | | | |
| 10/2/2018 | | | |
| 10/3/2018 | 191 | | |
| 10/5/2018 | | | |
| 4/1/2019 | | | |
| 4/2/2019 | | | |
| 4/3/2019 | 176 | | |
| 4/5/2019 | | | |
| 9/23/2019 | | | |
| 9/24/2019 | | | |
| 9/25/2019 | | | |
| 9/26/2019 | | | |
| 9/27/2019 | 198 | | |
| 3/25/2020 | | | |
| 3/26/2020 | 182 | | |
| 3/27/2020 | | | |
| 3/30/2020 | | | |
| 3/31/2020 | | | |
| 4/1/2020 | | | |
| 6/16/2020 | | | |
| 6/17/2020 | | | |
| 9/15/2020 | | | |
| 9/16/2020 | | 6.9 | 43 |
| 9/17/2020 | | | |
| 9/18/2020 | 266 | | |
| 9/21/2020 | | | |
| 11/10/2020 | | 6.3 | 39 |
| 12/15/2020 | | 6.7 | 38.8 |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-12 | HGWA-44D (bg) | HGWA-43D (bg) |
|-----------|---------|---------------|---------------|
| 1/19/2021 | | 7.4 | 37.3 |
| 3/10/2021 | | <1 | |
| 3/11/2021 | | | 38.6 |
| 3/12/2021 | | | |
| 3/15/2021 | | | |
| 3/16/2021 | 248 | | |
| 3/17/2021 | | | |
| 8/11/2021 | | | 30.5 |
| 8/12/2021 | | | |
| 8/13/2021 | | 56.1 | |
| 8/16/2021 | | | |
| 8/17/2021 | | | |
| 8/18/2021 | 226 | | |
| 8/19/2021 | | | |
| 2/1/2022 | | 56.3 | 37.5 |
| 2/9/2022 | 252 | | |
| 2/10/2022 | | | |
| 8/2/2022 | | 13.2 | 37 |
| 8/3/2022 | 236 | | |
| 8/4/2022 | | | |
| 8/11/2022 | | | |
| 1/23/2023 | | | |
| 1/24/2023 | | 10.1 | 34.7 |
| 1/26/2023 | 228 | | |
| 1/27/2023 | | | |
| 2/1/2023 | | | |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-11 | HGWC-13 | HGWC-10 | HGWC-9 |
|-----------|-------------|-------------|-------------|--------|--------|---------|---------|----------|--------|
| 1/19/2021 | | | | | | | | | |
| 3/10/2021 | 348 | | | | | | | | |
| 3/11/2021 | | 267 | 169 | | | | | | |
| 3/12/2021 | | | | | | | | 490 (H1) | |
| 3/15/2021 | | | | 370 | 614 | | | | |
| 3/16/2021 | | | | | | 558 | | | 672 |
| 3/17/2021 | | | | | | | 716 | | |
| 8/11/2021 | 366 | | | | | | | | |
| 8/12/2021 | | 265 | 118 | | | | | | |
| 8/13/2021 | | | | | | | | | |
| 8/16/2021 | | | | 407 | | | | | |
| 8/17/2021 | | | | | | | | 496 | 704 |
| 8/18/2021 | | | | | 620 | 566 | | | |
| 8/19/2021 | | | | | | | 726 | | |
| 2/1/2022 | 270 | 350 | 156 | | | | | | |
| 2/9/2022 | | | | | | 544 | | 250 | 756 |
| 2/10/2022 | | | | 414 | 578 | | 814 | | |
| 8/2/2022 | 400 | 287 | 196 | | | | | | |
| 8/3/2022 | | | | 441 | 648 | 572 | 958 | 433 | |
| 8/4/2022 | | | | | | | | | 760 |
| 8/11/2022 | | | | 445 | | | | | |
| 1/23/2023 | | 293 | | | | | | | |
| 1/24/2023 | 369 | | 164 | | | | | | |
| 1/26/2023 | | | | | | 429 | 962 | | 745 |
| 1/27/2023 | | | | 473 | | | | 188 | |
| 2/1/2023 | | | | | 528 | | | | |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-12 | HGWA-44D (bg) | HGWA-43D (bg) |
|------------|---------|---------------|---------------|
| 5/19/2016 | | | |
| 5/20/2016 | | | |
| 5/23/2016 | 1060 | | |
| 7/11/2016 | | | |
| 7/12/2016 | 909 | | |
| 8/30/2016 | | | |
| 9/1/2016 | 1480 | | |
| 10/19/2016 | | | |
| 10/20/2016 | | | |
| 10/24/2016 | 868 | | |
| 12/6/2016 | | | |
| 12/7/2016 | 811 | | |
| 1/24/2017 | | | |
| 1/25/2017 | | | |
| 1/26/2017 | 846 | | |
| 3/21/2017 | | | |
| 3/22/2017 | 804 | | |
| 5/22/2017 | | | |
| 5/23/2017 | | | |
| 5/24/2017 | 803 | | |
| 10/3/2017 | 608 | | |
| 6/4/2018 | | | |
| 6/5/2018 | | | |
| 6/6/2018 | 535 | | |
| 10/1/2018 | | | |
| 10/2/2018 | | | |
| 10/3/2018 | 607 | | |
| 10/5/2018 | | | |
| 4/1/2019 | | | |
| 4/2/2019 | | | |
| 4/3/2019 | 462 | | |
| 4/5/2019 | | | |
| 9/23/2019 | | | |
| 9/24/2019 | | | |
| 9/25/2019 | | | |
| 9/26/2019 | | | |
| 9/27/2019 | 653 | | |
| 3/25/2020 | | | |
| 3/26/2020 | 533 | | |
| 3/27/2020 | | | |
| 3/30/2020 | | | |
| 3/31/2020 | | | |
| 4/1/2020 | | | |
| 6/16/2020 | | | |
| 6/17/2020 | | | |
| 9/15/2020 | | | |
| 9/16/2020 | | 270 | 272 |
| 9/17/2020 | | | |
| 9/18/2020 | 704 | | |
| 9/21/2020 | | | |
| 11/10/2020 | | 287 | 307 |
| 12/15/2020 | | 295 | 289 |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/14/2023 12:39 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-12 | HGWA-44D (bg) | HGWA-43D (bg) |
|-----------|---------|---------------|---------------|
| 1/19/2021 | | 278 | 270 |
| 3/10/2021 | | 289 | |
| 3/11/2021 | | | 279 |
| 3/12/2021 | | | |
| 3/15/2021 | | | |
| 3/16/2021 | 614 | | |
| 3/17/2021 | | | |
| 8/11/2021 | | | 277 |
| 8/12/2021 | | | |
| 8/13/2021 | | 436 | |
| 8/16/2021 | | | |
| 8/17/2021 | | | |
| 8/18/2021 | 600 | | |
| 8/19/2021 | | | |
| 2/1/2022 | | 444 | 156 |
| 2/9/2022 | 678 | | |
| 2/10/2022 | | | |
| 8/2/2022 | | 311 | 278 |
| 8/3/2022 | 650 | | |
| 8/4/2022 | | | |
| 8/11/2022 | | | |
| 1/23/2023 | | | |
| 1/24/2023 | | 363 | 271 |
| 1/26/2023 | 624 | | |
| 1/27/2023 | | | |
| 2/1/2023 | | | |

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 12:44 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-----------------|---------------|----------|-------|----------|------|----|------|-----------|-------|-------|--------|
| Boron (mg/L) | HGWA-2 (bg) | 0.002417 | 122 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-12 | -0.1782 | -97 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-13 | -0.246 | -121 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-7 | 0.04008 | 125 | 92 | Yes | 22 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-3 (bg) | 2.343 | 113 | 87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-3 (bg) | -0.1308 | -102 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-44D (bg) | 8.893 | 28 | 25 | Yes | 9 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWC-8 | -9.384 | -113 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWC-9 | -12.17 | -134 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-2 (bg) | 1.847 | 118 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-43D (bg) | -2.015 | -26 | -25 | Yes | 9 | 0 | n/a | n/a | 0.01 | NP |

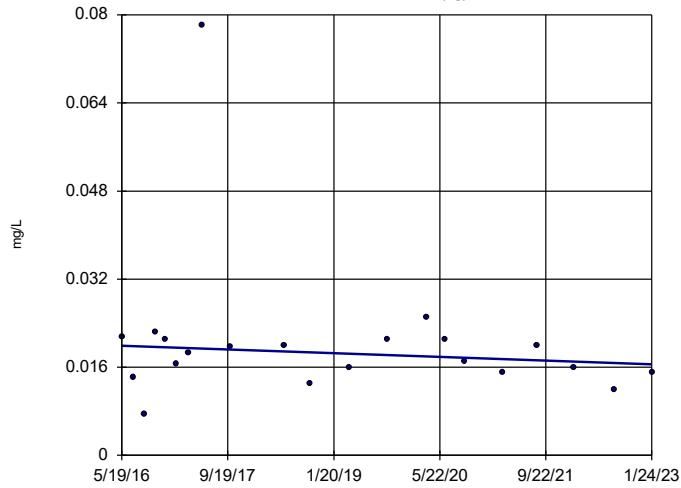
Appendix III Trend Tests - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 12:44 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------------------|----------------------|-----------------|-------------|------------|------------|-----------|----------|------------|------------|-------------|-----------|
| Boron (mg/L) | HGWA-1 (bg) | -0.0005071 | -38 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-2 (bg) | 0.002417 | 122 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-3 (bg) | 0.0004174 | 28 | 87 | No | 21 | 19.05 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-43D (bg) | -0.009889 | -24 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-44D (bg) | 0.06482 | 20 | 25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-11 | -0.1651 | -74 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-12 | -0.1782 | -97 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-13 | -0.246 | -121 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-7 | 0.04008 | 125 | 92 | Yes | 22 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-8 | -0.0007786 | -3 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-9 | 0.05878 | 64 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-1 (bg) | 2.482 | 68 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-2 (bg) | 0.8789 | 66 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-3 (bg) | 2.343 | 113 | 87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-43D (bg) | -3.051 | -16 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-44D (bg) | -7.217 | -20 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-12 | -4.398 | -55 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-13 | 18.24 | 66 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-9 | 0.9669 | 42 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-1 (bg) | 0.6249 | 63 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-2 (bg) | -0.02813 | -10 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-3 (bg) | -0.1308 | -102 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-43D (bg) | 0 | -2 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-44D (bg) | 8.893 | 28 | 25 | Yes | 9 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWC-8 | -9.384 | -113 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWC-9 | -12.17 | -134 | -81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-1 (bg) | 1.051 | 29 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-2 (bg) | 1.847 | 118 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-3 (bg) | 0.5404 | 34 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-43D (bg) | -2.015 | -26 | -25 | Yes | 9 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-44D (bg) | 3.569 | 14 | 25 | No | 9 | 11.11 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-11 | -8.003 | -34 | -81 | No | 20 | 5 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-12 | -9.947 | -60 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-13 | 45.96 | 62 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-7 | 0 | 12 | 92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-8 | -3.675 | -27 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-9 | -2.98 | -41 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWA-1 (bg) | 3.042 | 16 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWA-2 (bg) | 2.559 | 17 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWA-3 (bg) | 1.746 | 27 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWA-43D (bg) | -6.294 | -12 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWA-44D (bg) | 39.45 | 22 | 25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWC-13 | 52.01 | 56 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWC-9 | -33.15 | -52 | -81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |

Sen's Slope Estimator

HGWA-1 (bg)

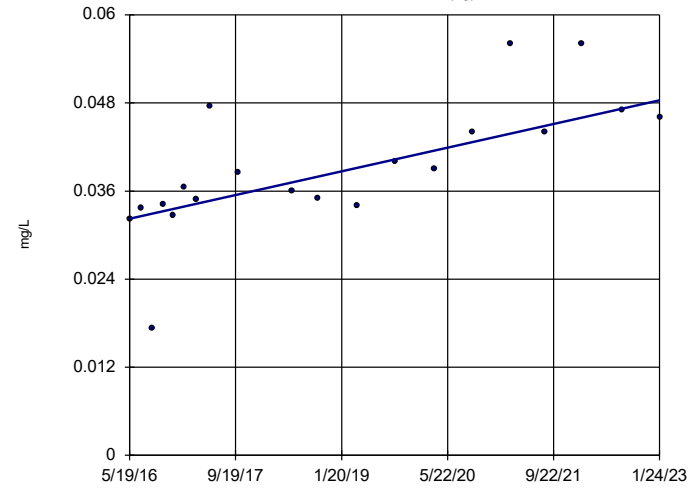


n = 21
 Slope = -0.0005071
 units per year.
 Mann-Kendall
 statistic = -38
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-2 (bg)

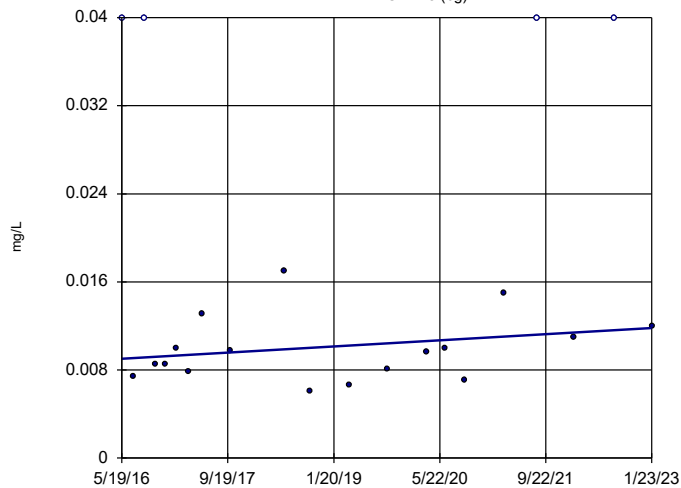


n = 20
 Slope = 0.002417
 units per year.
 Mann-Kendall
 statistic = 122
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-3 (bg)

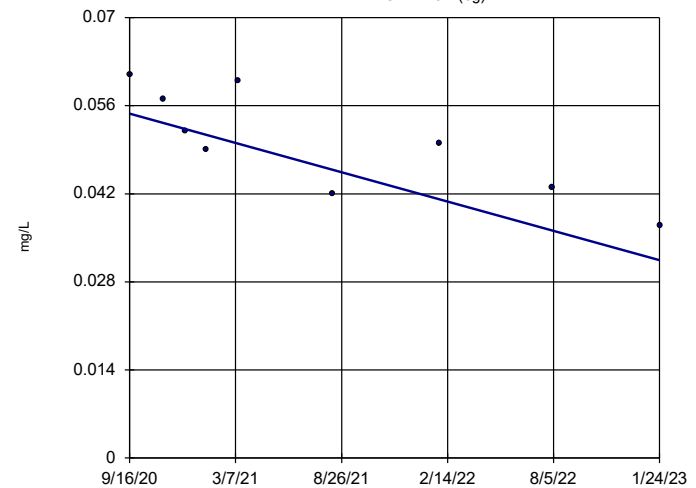


n = 21
 Slope = 0.0004174
 units per year.
 Mann-Kendall
 statistic = 28
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-43D (bg)

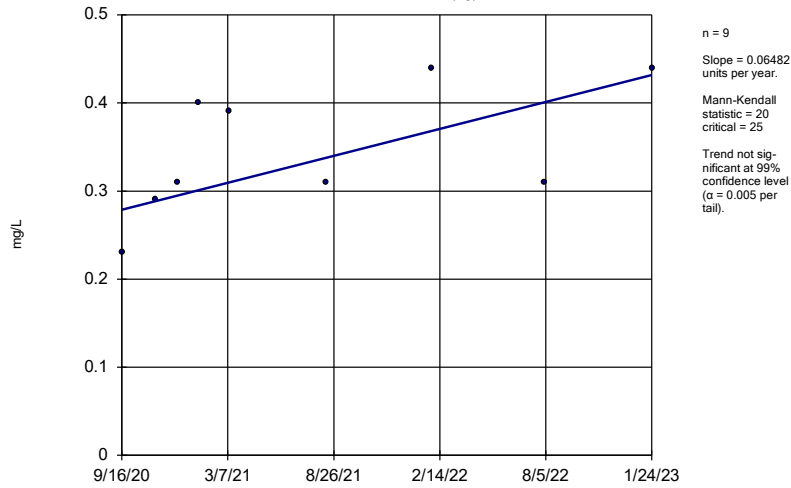


n = 9
 Slope = -0.009889
 units per year.
 Mann-Kendall
 statistic = -24
 critical = -25
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

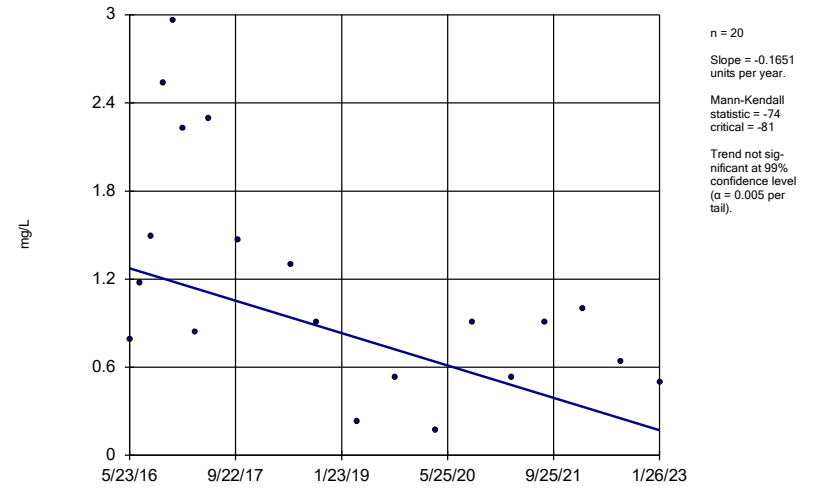
HGWA-44D (bg)



Constituent: Boron Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

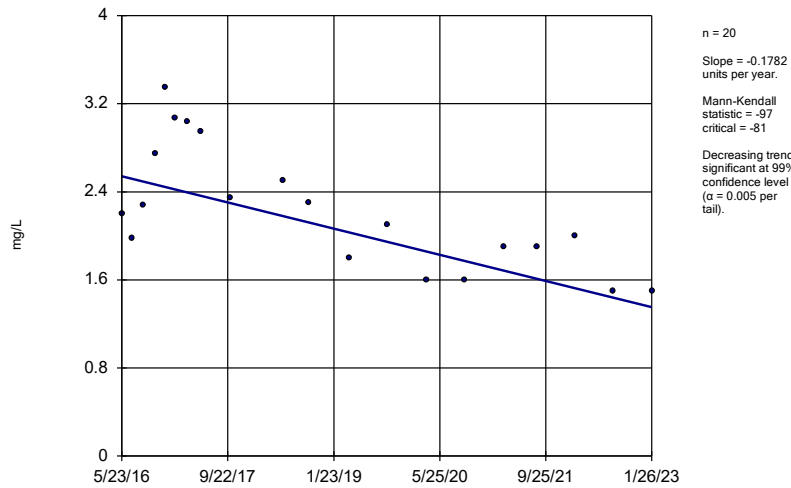
HGWC-11



Constituent: Boron Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

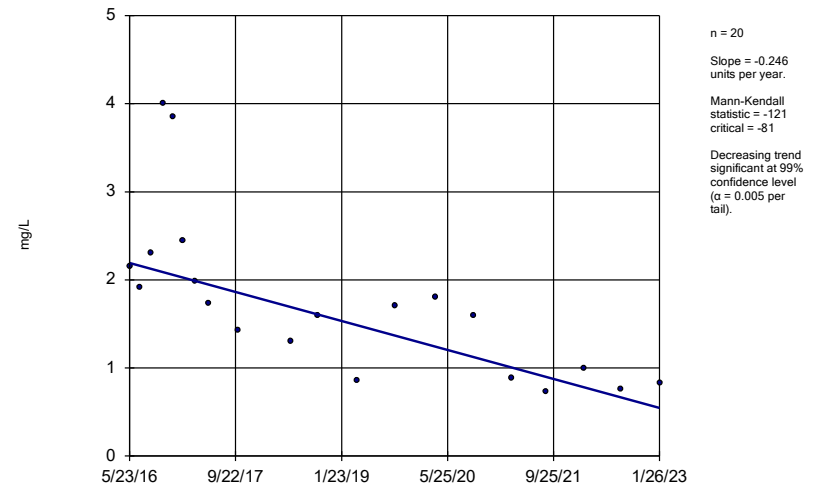
HGWC-12



Constituent: Boron Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

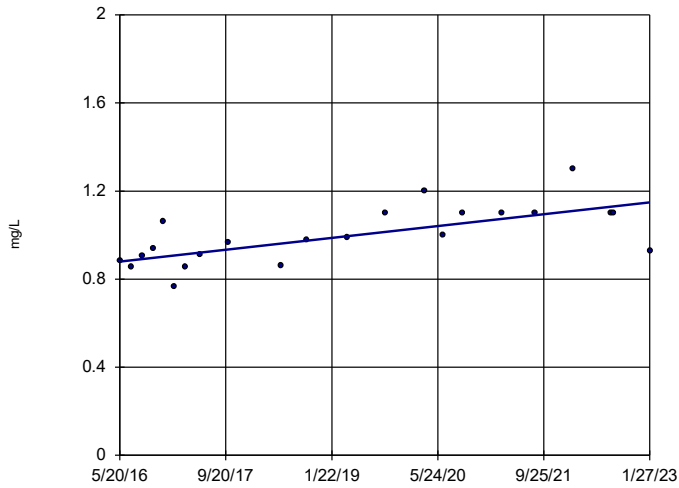
HGWC-13



Constituent: Boron Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-7

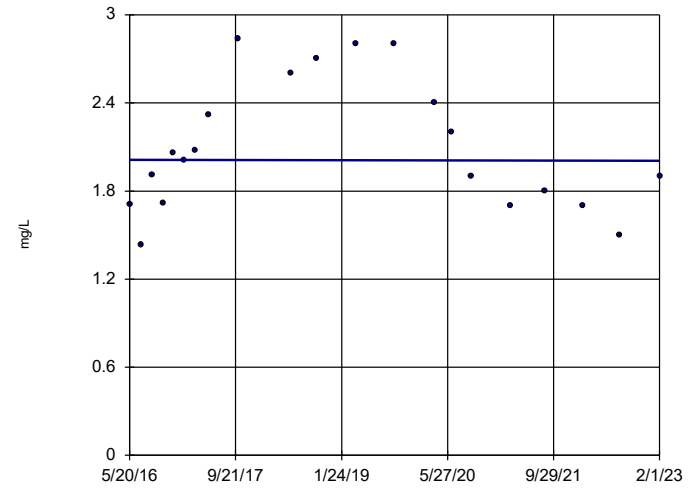


n = 22
 Slope = 0.04008
 units per year.
 Mann-Kendall
 statistic = 125
 critical = 92
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-8

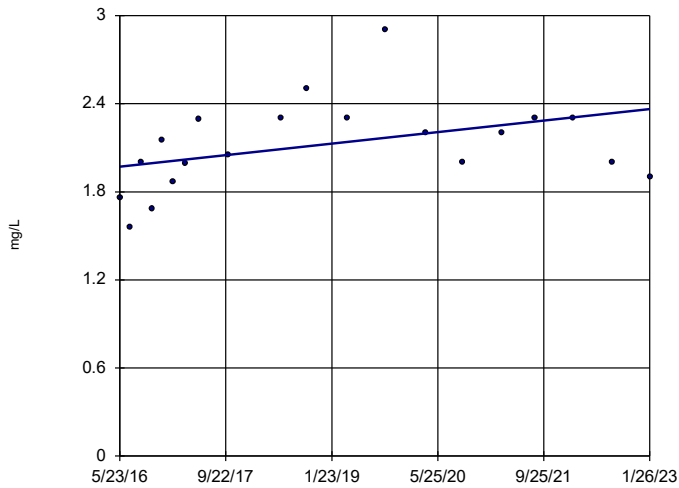


n = 21
 Slope = -0.0007786
 units per year.
 Mann-Kendall
 statistic = -3
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-9

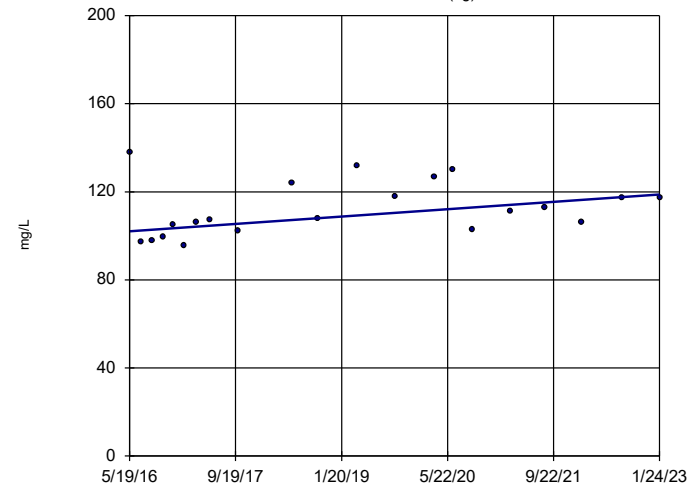


n = 20
 Slope = 0.05878
 units per year.
 Mann-Kendall
 statistic = 64
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-1 (bg)

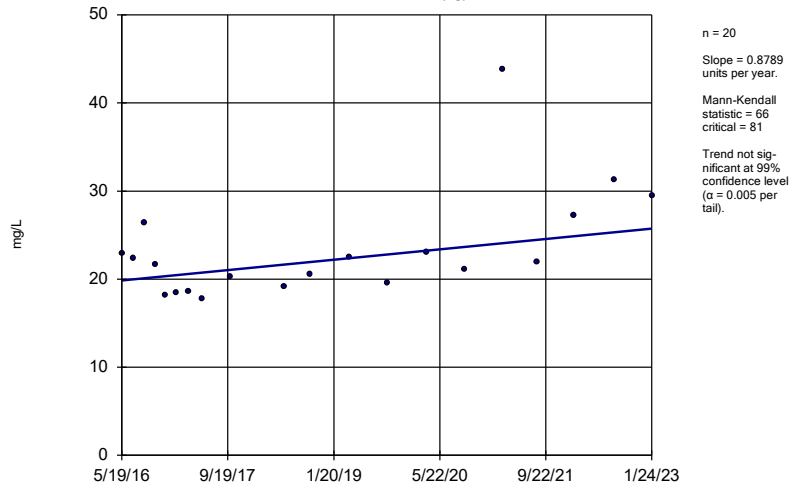


n = 21
 Slope = 2.482
 units per year.
 Mann-Kendall
 statistic = 68
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

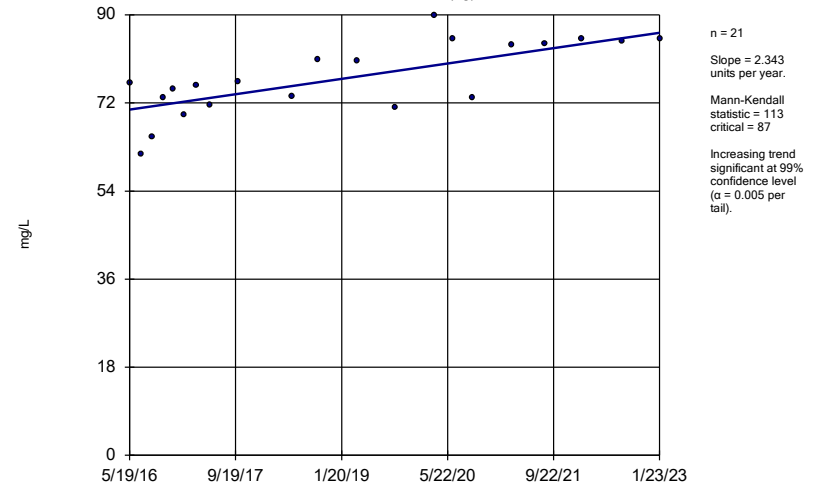
HGWA-2 (bg)



Constituent: Calcium Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

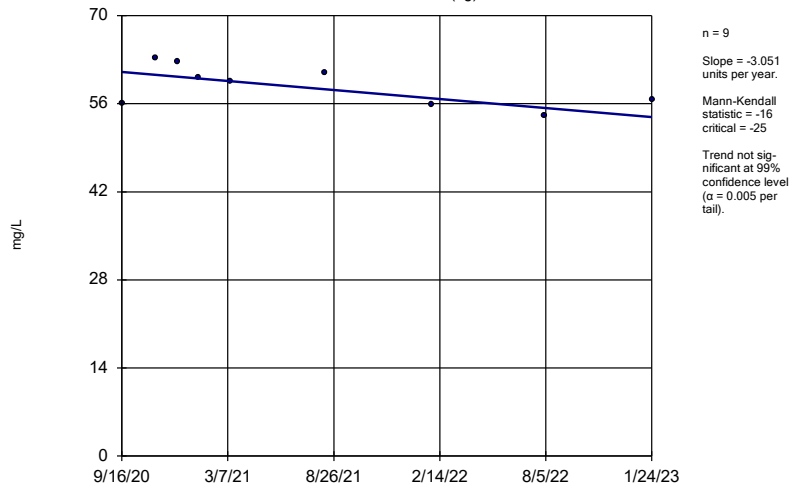
HGWA-3 (bg)



Constituent: Calcium Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

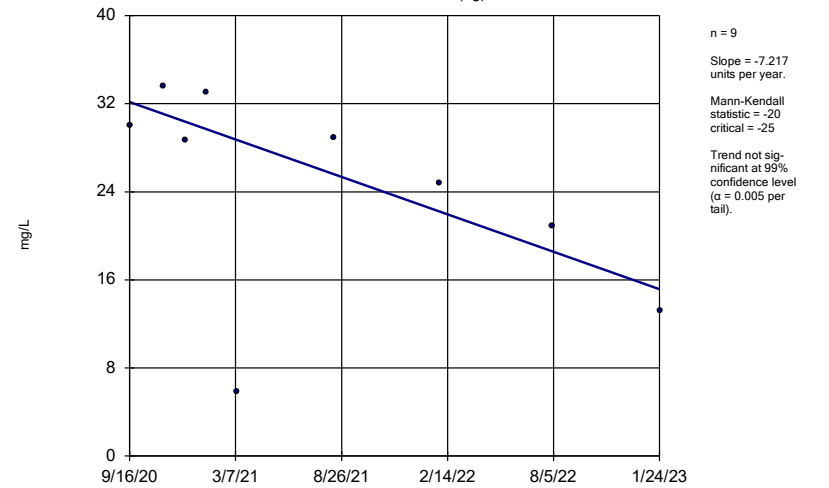
HGWA-43D (bg)



Constituent: Calcium Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

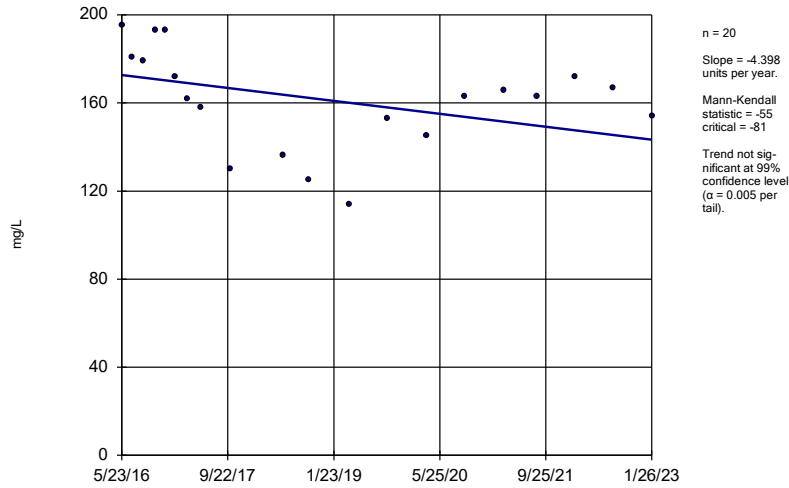
HGWA-44D (bg)



Constituent: Calcium Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

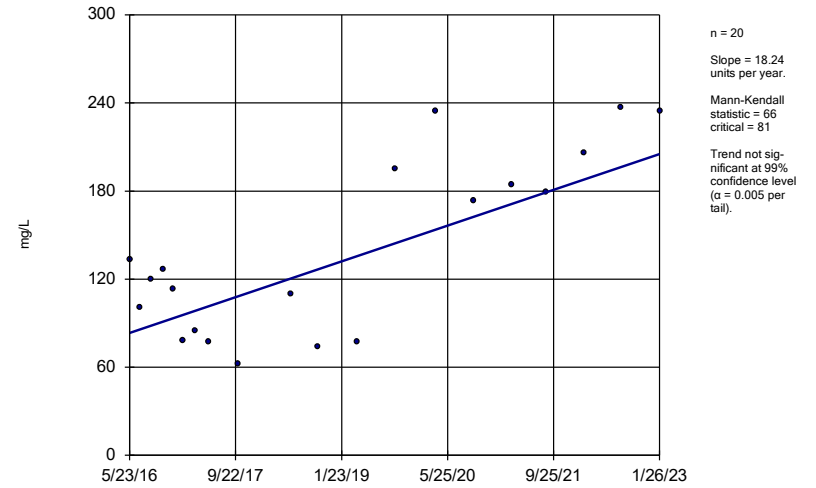
HGWC-12



Constituent: Calcium Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

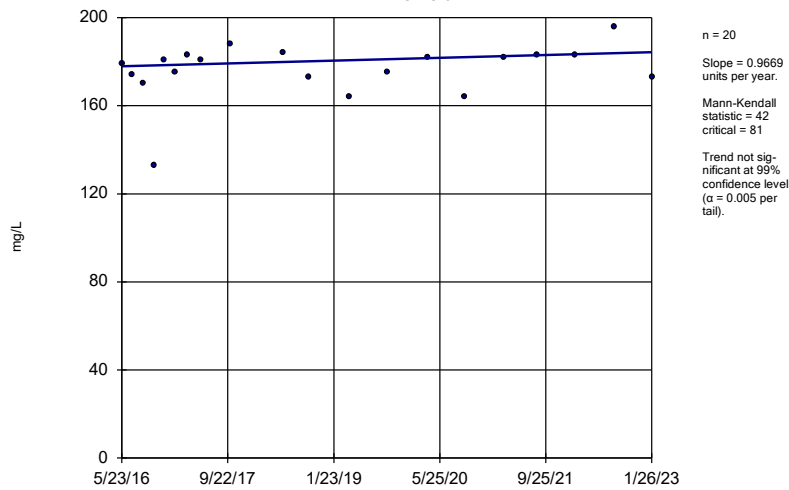
HGWC-13



Constituent: Calcium Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

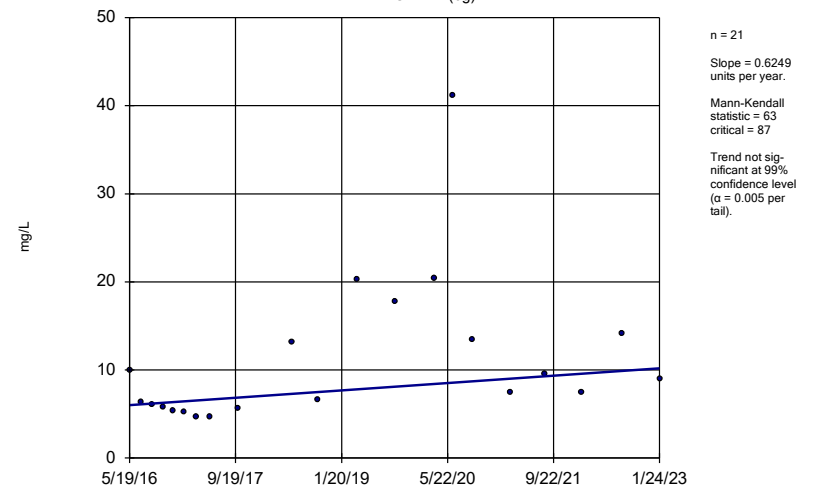
HGWC-9



Constituent: Calcium Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

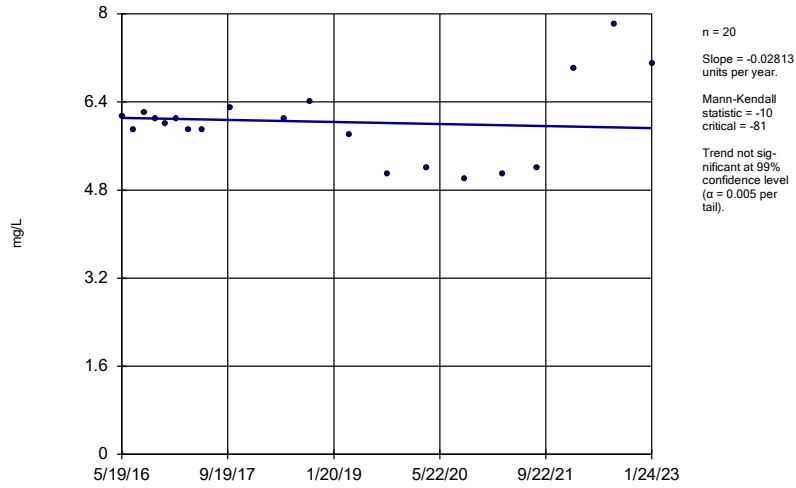
HGWA-1 (bg)



Constituent: Chloride Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

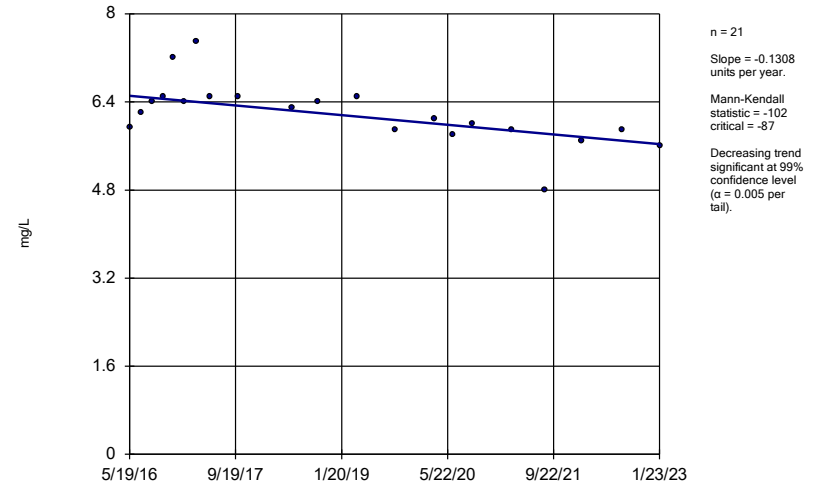
HGWA-2 (bg)



Constituent: Chloride Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

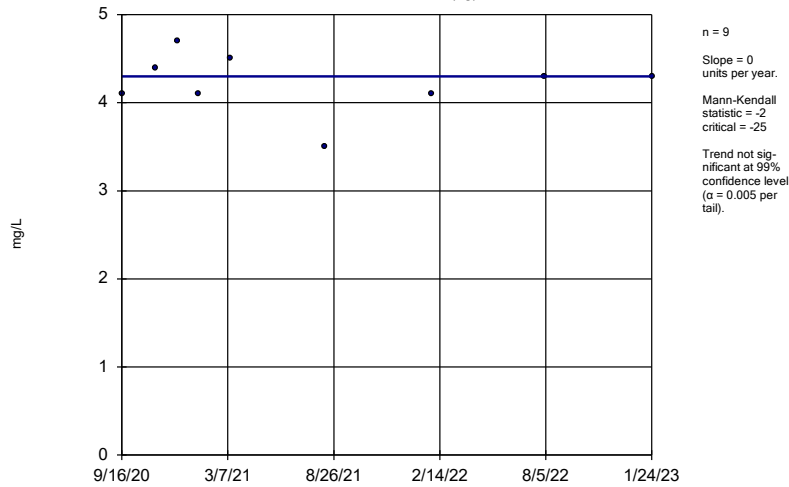
HGWA-3 (bg)



Constituent: Chloride Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

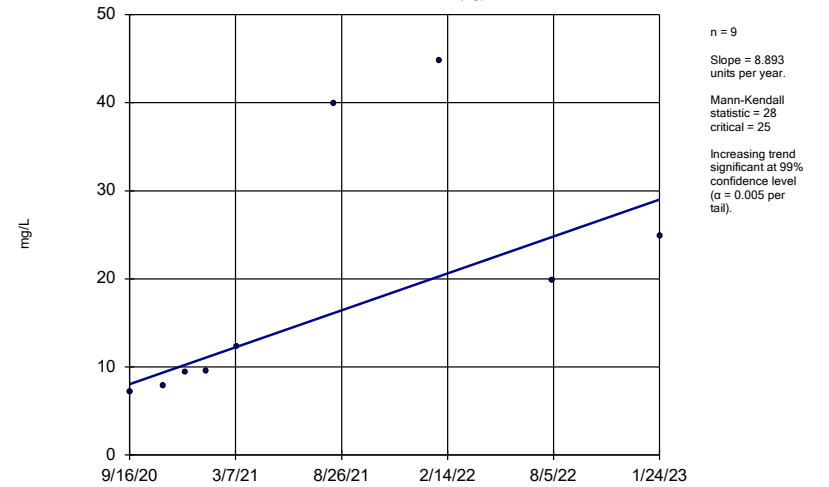
HGWA-43D (bg)



Constituent: Chloride Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

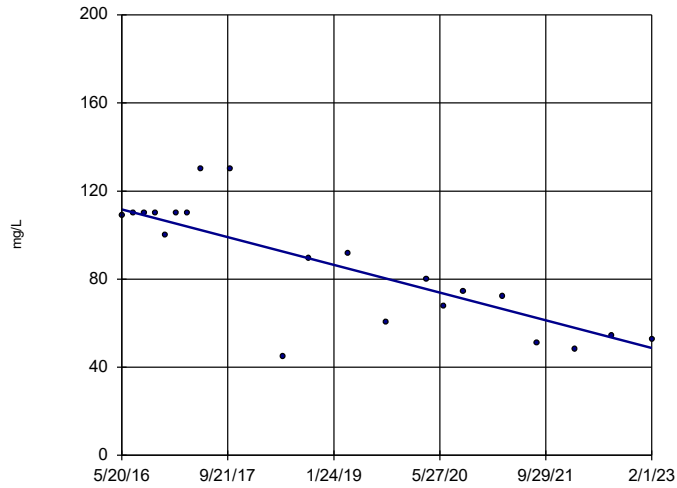
HGWA-44D (bg)



Constituent: Chloride Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

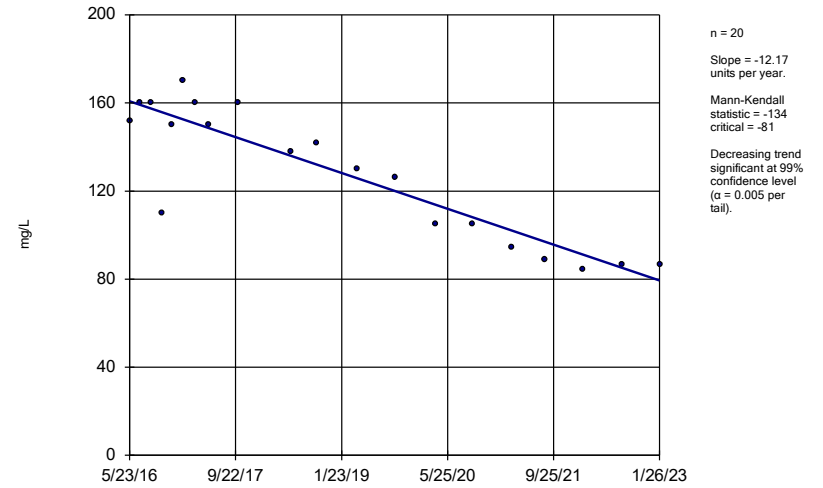
HGWC-8



Constituent: Chloride Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

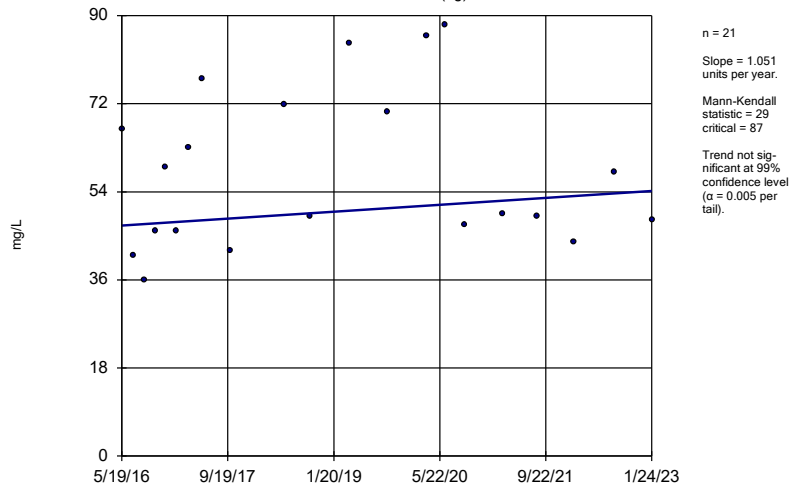
HGWC-9



Constituent: Chloride Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

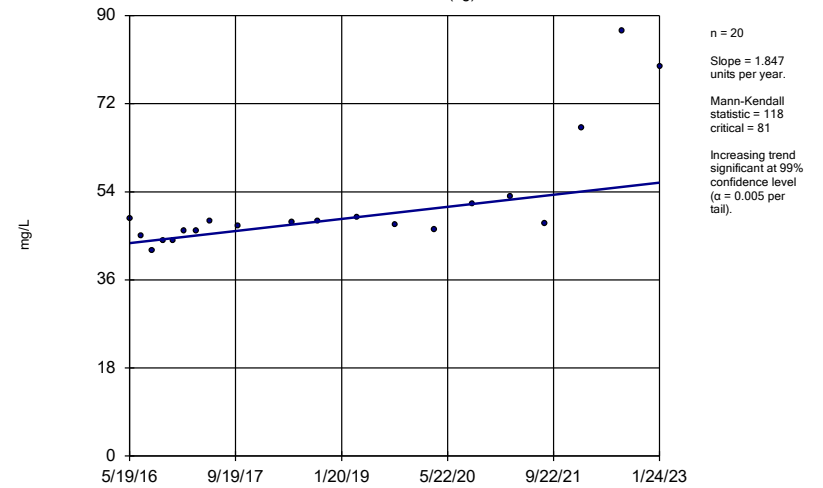
HGWA-1 (bg)



Constituent: Sulfate Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

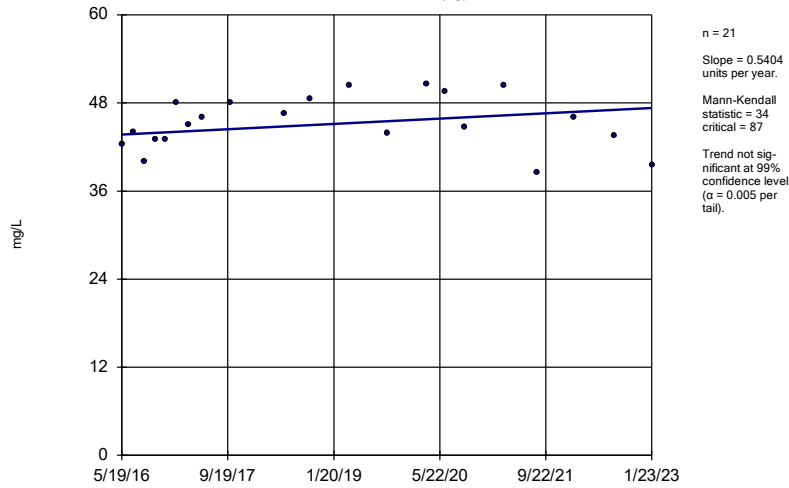
HGWA-2 (bg)



Constituent: Sulfate Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

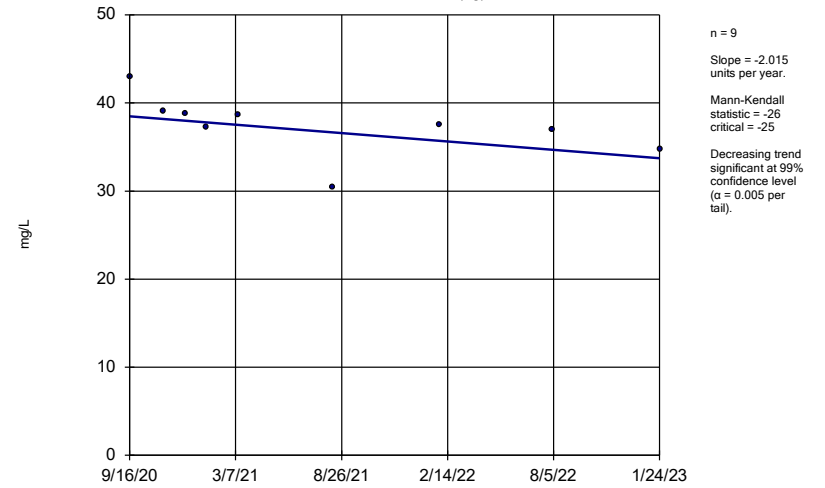
HGWA-3 (bg)



Constituent: Sulfate Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

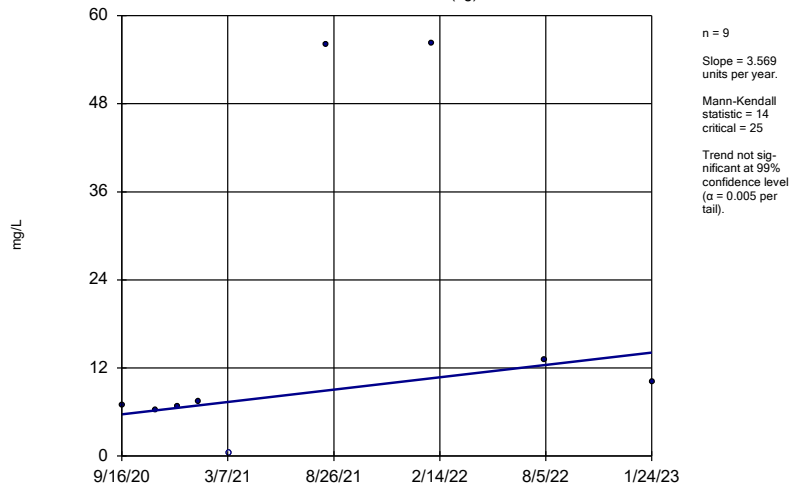
HGWA-43D (bg)



Constituent: Sulfate Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

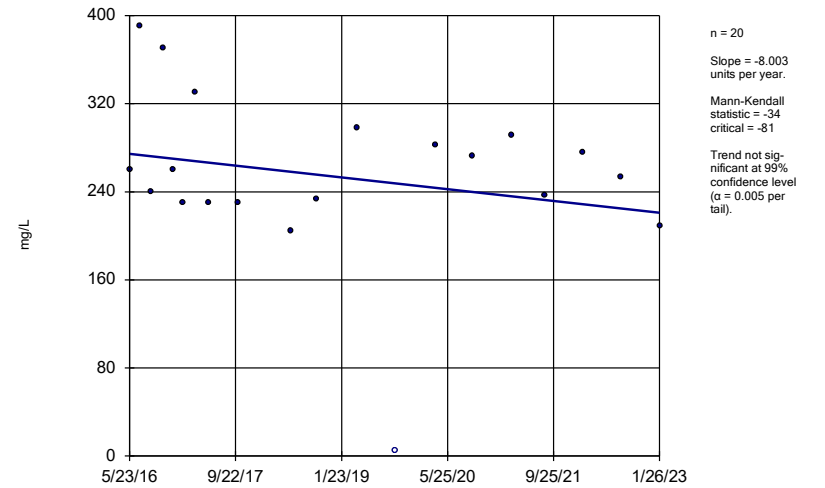
HGWA-44D (bg)



Constituent: Sulfate Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

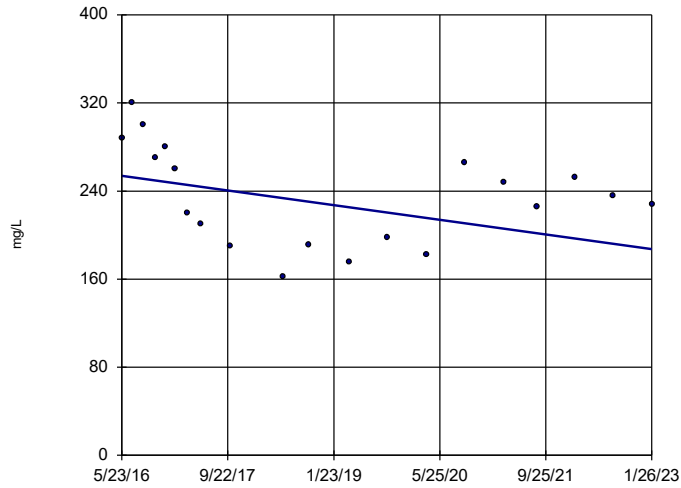
HGWC-11



Constituent: Sulfate Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-12

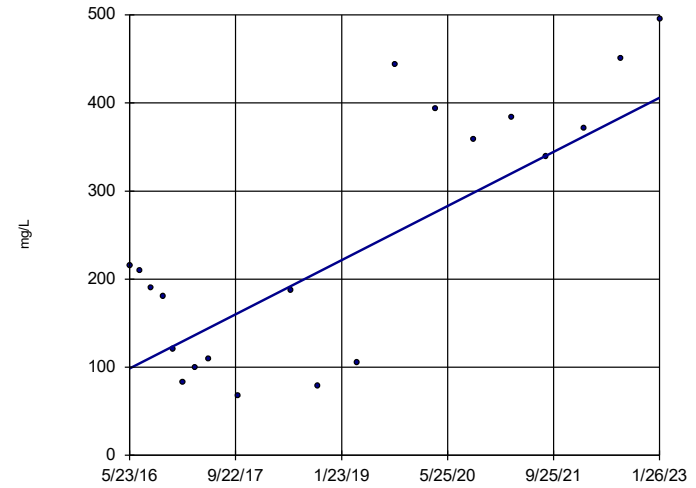


n = 20
 Slope = -9.947
 units per year.
 Mann-Kendall
 statistic = -60
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-13

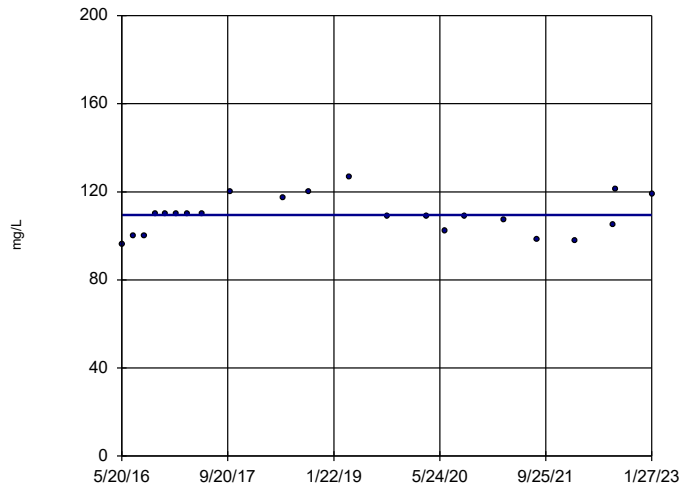


n = 20
 Slope = 45.96
 units per year.
 Mann-Kendall
 statistic = 62
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-7

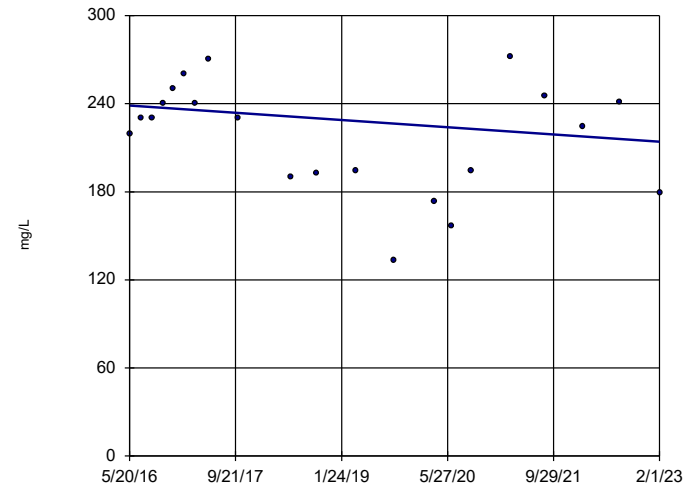


n = 22
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 12
 critical = 92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-8

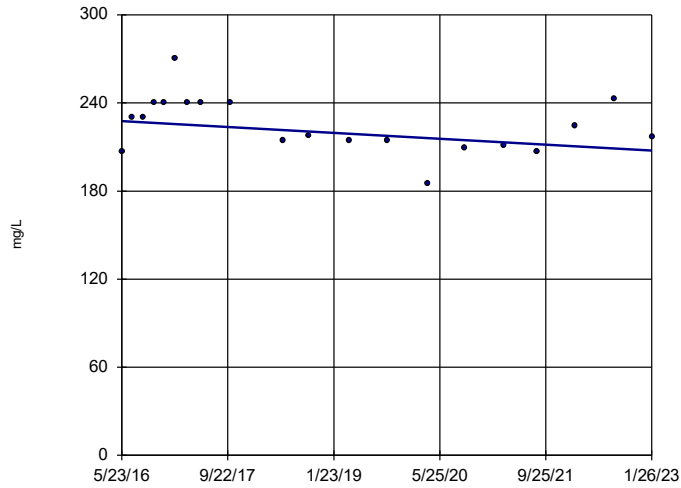


n = 21
 Slope = -3.675
 units per year.
 Mann-Kendall
 statistic = -27
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-9

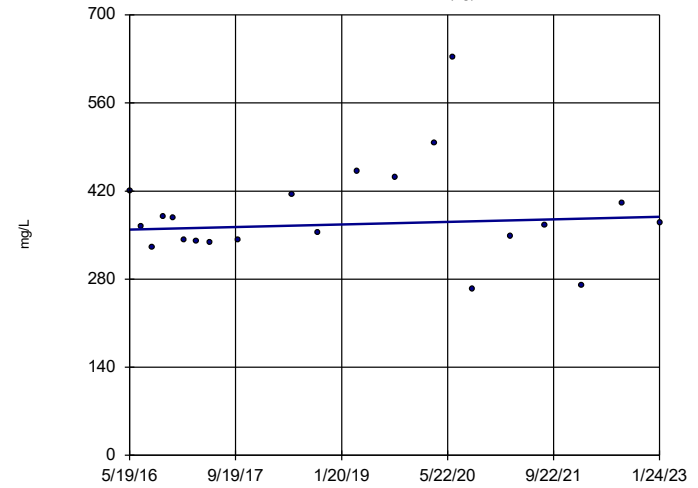


n = 20
 Slope = -2.98
 units per year.
 Mann-Kendall
 statistic = -41
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-1 (bg)

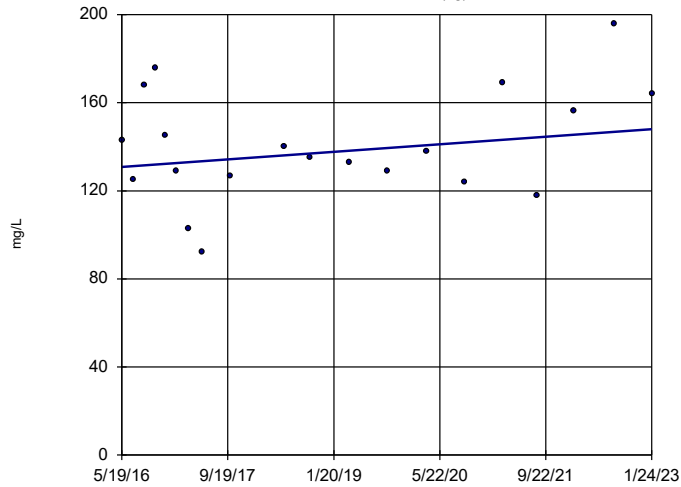


n = 21
 Slope = 3.042
 units per year.
 Mann-Kendall
 statistic = 16
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-2 (bg)

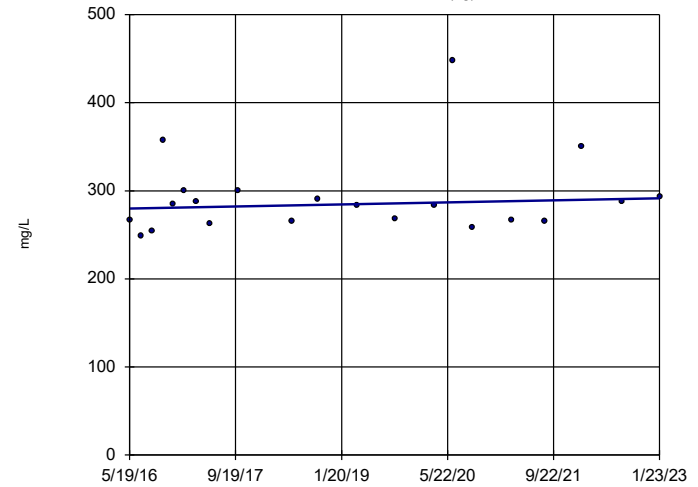


n = 20
 Slope = 2.559
 units per year.
 Mann-Kendall
 statistic = 17
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-3 (bg)

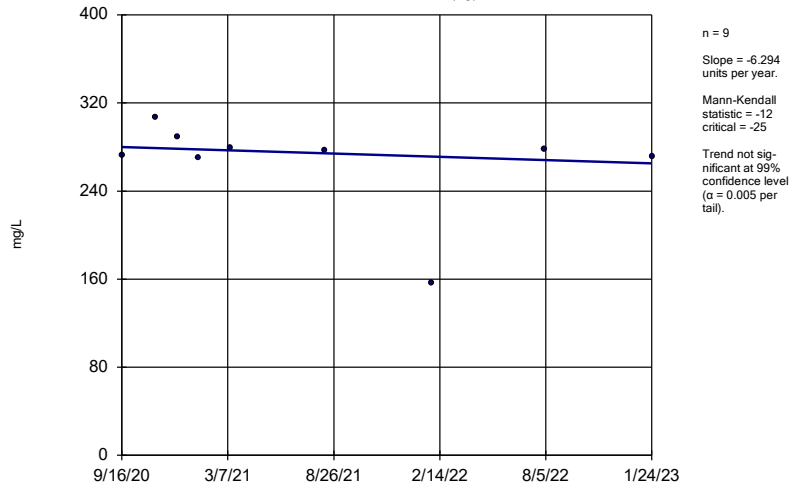


n = 21
 Slope = 1.746
 units per year.
 Mann-Kendall
 statistic = 27
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

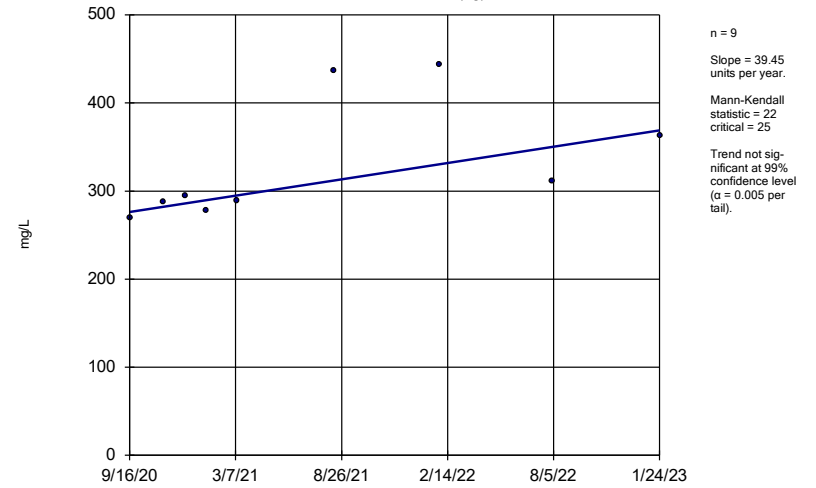
HGWA-43D (bg)



Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

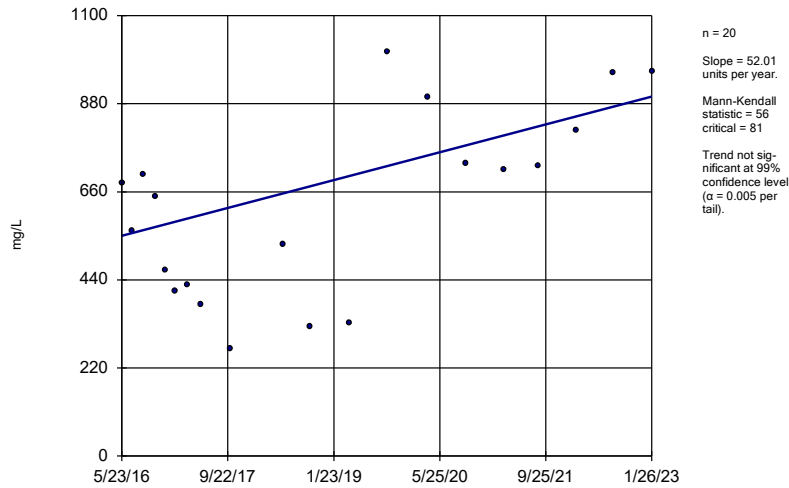
HGWA-44D (bg)



Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

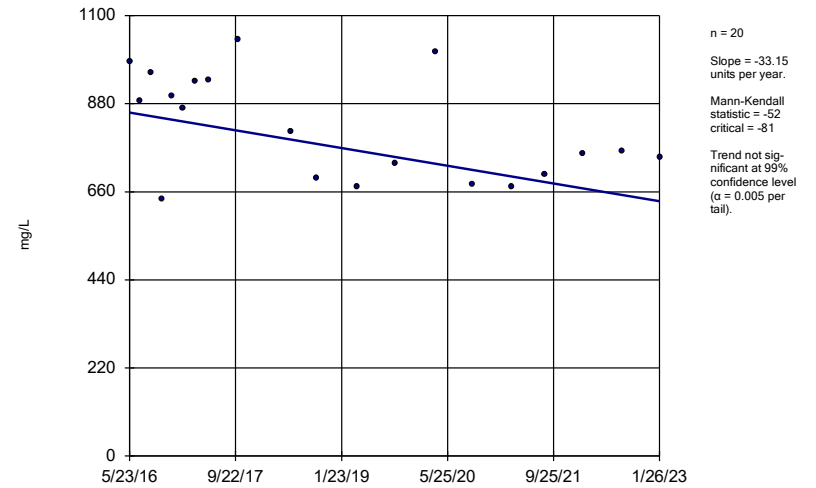
HGWC-13



Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-9



Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 12:49 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig.Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|------|------------|------------|------|---------|----------|---------|-----------|-------|---------|-----------|----------|---------------------|
| Antimony (mg/L) | n/a | 0.003 | n/a | n/a | n/a | n/a 83 | n/a | n/a | 80.72 | n/a | n/a | 0.01416 | NP Inter(NDs) |
| Arsenic (mg/L) | n/a | 0.005 | n/a | n/a | n/a | n/a 89 | n/a | n/a | 66.29 | n/a | n/a | 0.01041 | NP Inter(NDs) |
| Barium (mg/L) | n/a | 0.46 | n/a | n/a | n/a | n/a 89 | n/a | n/a | 0 | n/a | n/a | 0.01041 | NP Inter(normality) |
| Beryllium (mg/L) | n/a | 0.0005 | n/a | n/a | n/a | n/a 83 | n/a | n/a | 78.31 | n/a | n/a | 0.01416 | NP Inter(NDs) |
| Cadmium (mg/L) | n/a | 0.0005 | n/a | n/a | n/a | n/a 83 | n/a | n/a | 85.54 | n/a | n/a | 0.01416 | NP Inter(NDs) |
| Chromium (mg/L) | n/a | 0.0079 | n/a | n/a | n/a | n/a 83 | n/a | n/a | 83.13 | n/a | n/a | 0.01416 | NP Inter(NDs) |
| Cobalt (mg/L) | n/a | 0.038 | n/a | n/a | n/a | n/a 83 | n/a | n/a | 72.29 | n/a | n/a | 0.01416 | NP Inter(NDs) |
| Combined Radium 226 + 228 (pCi/L) | n/a | 4.36 | n/a | n/a | n/a | n/a 89 | n/a | n/a | 0 | n/a | n/a | 0.01041 | NP Inter(normality) |
| Fluoride (mg/L) | n/a | 1.3 | n/a | n/a | n/a | n/a 94 | n/a | n/a | 28.72 | n/a | n/a | 0.008054 | NP Inter(normality) |
| Lead (mg/L) | n/a | 0.001 | n/a | n/a | n/a | n/a 80 | n/a | n/a | 68.75 | n/a | n/a | 0.01652 | NP Inter(NDs) |
| Lithium (mg/L) | n/a | 0.064 | n/a | n/a | n/a | n/a 89 | n/a | n/a | 19.1 | n/a | n/a | 0.01041 | NP Inter(normality) |
| Mercury (mg/L) | n/a | 0.0002 | n/a | n/a | n/a | n/a 61 | n/a | n/a | 96.72 | n/a | n/a | 0.04377 | NP Inter(NDs) |
| Molybdenum (mg/L) | n/a | 0.01 | n/a | n/a | n/a | n/a 91 | n/a | n/a | 78.02 | n/a | n/a | 0.009394 | NP Inter(NDs) |
| Selenium (mg/L) | n/a | 0.005 | n/a | n/a | n/a | n/a 89 | n/a | n/a | 97.75 | n/a | n/a | 0.01041 | NP Inter(NDs) |
| Thallium (mg/L) | n/a | 0.001 | n/a | n/a | n/a | n/a 89 | n/a | n/a | 98.88 | n/a | n/a | 0.01041 | NP Inter(NDs) |

FIGURE G.

| PLANT HAMMOND AP-1 GWPS | | | | |
|--------------------------------|------------|---------------------------|-------------------------|-------------|
| Constituent Name | MCL | CCR-Rule Specified | Background Limit | GWPS |
| Antimony, Total (mg/L) | 0.006 | | 0.003 | 0.006 |
| Arsenic, Total (mg/L) | 0.01 | | 0.005 | 0.01 |
| Barium, Total (mg/L) | 2 | | 0.46 | 2 |
| Beryllium, Total (mg/L) | 0.004 | | 0.0005 | 0.004 |
| Cadmium, Total (mg/L) | 0.005 | | 0.0005 | 0.005 |
| Chromium, Total (mg/L) | 0.1 | | 0.0079 | 0.1 |
| Cobalt, Total (mg/L) | n/a | 0.006 | 0.038 | 0.038 |
| Combined Radium, Total (pCi/L) | 5 | | 4.36 | 5 |
| Fluoride, Total (mg/L) | 4 | | 1.3 | 4 |
| Lead, Total (mg/L) | n/a | 0.015 | 0.001 | 0.015 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.064 | 0.064 |
| Mercury, Total (mg/L) | 0.002 | | 0.0002 | 0.002 |
| Molybdenum, Total (mg/L) | n/a | 0.1 | 0.01 | 0.1 |
| Selenium, Total (mg/L) | 0.05 | | 0.005 | 0.05 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 0.002 |

**Grey cell indicates background is higher than MCL or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Intervals - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 1:13 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------|---------|------------|------------|------------|------|----|--------|-----------|------|---------|-----------|-------|--------|
| Arsenic (mg/L) | HGWC-13 | 0.4311 | 0.3628 | 0.01 | Yes | 23 | 0.397 | 0.06529 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-8 | 0.4856 | 0.4241 | 0.1 | Yes | 24 | 0.4513 | 0.06596 | 0 | None | x^2 | 0.01 | Param. |

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 1:13 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------|----------------|---------------|---------------|-------------|------------|-----------|--------------|----------------|----------|-------------|-----------|-------------|----------------|
| Antimony (mg/L) | HGWC-10 | 0.003 | 0.0018 | 0.006 | No | 21 | 0.002831 | 0.000564 | 90.48 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-11 | 0.003 | 0.00038 | 0.006 | No | 21 | 0.002875 | 0.0005717 | 95.24 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-13 | 0.003 | 0.00047 | 0.006 | No | 21 | 0.00213 | 0.001263 | 66.67 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-7 | 0.003 | 0.0017 | 0.006 | No | 22 | 0.00282 | 0.0006192 | 90.91 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-8 | 0.003 | 0.00064 | 0.006 | No | 21 | 0.002888 | 0.000515 | 95.24 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-9 | 0.003 | 0.00092 | 0.006 | No | 21 | 0.002528 | 0.001002 | 80.95 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-24D | 0.003 | 0.0017 | 0.006 | No | 12 | 0.002892 | 0.0003753 | 91.67 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-26D | 0.003 | 0.002 | 0.006 | No | 12 | 0.002775 | 0.0005463 | 83.33 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-27D | 0.003 | 0.0003 | 0.006 | No | 12 | 0.001652 | 0.001409 | 50 | None | No | 0.01 | NP (normality) |
| Antimony (mg/L) | MW-28D | 0.003 | 0.0019 | 0.006 | No | 12 | 0.002908 | 0.0003175 | 91.67 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-29 | 0.003 | 0.00094 | 0.006 | No | 12 | 0.002828 | 0.0005947 | 91.67 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-6 | 0.003 | 0.0014 | 0.006 | No | 12 | 0.002867 | 0.0004619 | 91.67 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-7 | 0.003 | 0.00086 | 0.006 | No | 12 | 0.002398 | 0.0009593 | 66.67 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | HGWC-11 | 0.005 | 0.0018 | 0.01 | No | 23 | 0.003554 | 0.001724 | 47.83 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | HGWC-12 | 0.004183 | 0.002886 | 0.01 | No | 23 | 0.003535 | 0.00124 | 8.696 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | HGWC-13 | 0.4311 | 0.3628 | 0.01 | Yes | 23 | 0.397 | 0.06529 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | HGWC-7 | 0.005 | 0.0019 | 0.01 | No | 24 | 0.004871 | 0.0006328 | 95.83 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | HGWC-8 | 0.005 | 0.002 | 0.01 | No | 23 | 0.00487 | 0.0006255 | 95.65 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | HGWC-9 | 0.005 | 0.0021 | 0.01 | No | 23 | 0.004305 | 0.001573 | 82.61 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-19 | 0.005 | 0.00045 | 0.01 | No | 12 | 0.004621 | 0.001313 | 91.67 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-20 | 0.005 | 0.00094 | 0.01 | No | 12 | 0.004052 | 0.001767 | 75 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-25D | 0.005 | 0.001 | 0.01 | No | 12 | 0.003729 | 0.001895 | 66.67 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-26D | 0.005 | 0.0008 | 0.01 | No | 12 | 0.004008 | 0.001811 | 75 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-27D | 0.005 | 0.00069 | 0.01 | No | 12 | 0.003907 | 0.001984 | 75 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-28D | 0.005 | 0.0011 | 0.01 | No | 12 | 0.004675 | 0.001126 | 91.67 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-29 | 0.005 | 0.00037 | 0.01 | No | 12 | 0.004614 | 0.001337 | 91.67 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-5 | 0.005 | 0.0013 | 0.01 | No | 12 | 0.004692 | 0.001068 | 91.67 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-6 | 0.005 | 0.0034 | 0.01 | No | 12 | 0.004867 | 0.0004619 | 91.67 | None | No | 0.01 | NP (NDs) |
| Barium (mg/L) | HGWC-10 | 0.08399 | 0.06212 | 2 | No | 23 | 0.07306 | 0.02091 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-11 | 0.05051 | 0.03278 | 2 | No | 23 | 0.04283 | 0.01895 | 0 | None | sqrt(x) | 0.01 | Param. |
| Barium (mg/L) | HGWC-12 | 0.123 | 0.083 | 2 | No | 23 | 0.09896 | 0.02104 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | HGWC-13 | 0.08825 | 0.06754 | 2 | No | 23 | 0.0779 | 0.0198 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-7 | 0.07378 | 0.06797 | 2 | No | 24 | 0.07088 | 0.005696 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-8 | 0.07372 | 0.06219 | 2 | No | 23 | 0.06796 | 0.01102 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-9 | 0.1187 | 0.1011 | 2 | No | 23 | 0.1099 | 0.01686 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-19 | 0.06184 | 0.04583 | 2 | No | 12 | 0.05383 | 0.01021 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-20 | 0.09568 | 0.08599 | 2 | No | 12 | 0.09083 | 0.006177 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-24D | 0.081 | 0.048 | 2 | No | 12 | 0.0605 | 0.02098 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | MW-25D | 0.596 | 0.4157 | 2 | No | 12 | 0.5058 | 0.1149 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-26D | 0.1217 | 0.07335 | 2 | No | 12 | 0.0975 | 0.03078 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-27D | 1.2 | 0.94 | 2 | No | 12 | 1.056 | 0.1609 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | MW-28D | 0.7309 | 0.3408 | 2 | No | 12 | 0.5358 | 0.2486 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-29 | 0.08349 | 0.07551 | 2 | No | 12 | 0.0795 | 0.00509 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-5 | 0.05211 | 0.04456 | 2 | No | 12 | 0.04833 | 0.004812 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-6 | 0.09038 | 0.07995 | 2 | No | 12 | 0.08517 | 0.006645 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-7 | 0.0617 | 0.04896 | 2 | No | 12 | 0.05533 | 0.008117 | 0 | None | No | 0.01 | Param. |
| Beryllium (mg/L) | HGWC-11 | 0.0005 | 0.00012 | 0.004 | No | 21 | 0.0003713 | 0.0001875 | 66.67 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | HGWC-13 | 0.0005 | 0.000097 | 0.004 | No | 21 | 0.0003254 | 0.0002069 | 57.14 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | HGWC-7 | 0.0005 | 0.00019 | 0.004 | No | 22 | 0.0004476 | 0.0001363 | 86.36 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | HGWC-8 | 0.003 | 0.000074 | 0.004 | No | 21 | 0.001885 | 0.001456 | 61.9 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | MW-19 | 0.0005 | 0.000058 | 0.004 | No | 12 | 0.0004632 | 0.0001276 | 91.67 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | MW-28D | 0.0005 | 0.000054 | 0.004 | No | 12 | 0.0003952 | 0.0001909 | 75 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | MW-7 | 0.0005 | 0.000051 | 0.004 | No | 12 | 0.0004626 | 0.0001296 | 91.67 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | HGWC-10 | 0.0005 | 0.000115 | 0.005 | No | 21 | 0.0003721 | 0.0001864 | 66.67 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | HGWC-11 | 0.0005 | 0.0001 | 0.005 | No | 21 | 0.0004427 | 0.0001439 | 85.71 | None | No | 0.01 | NP (NDs) |

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 1:13 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|---------|------------|------------|------------|------|----|-----------|-----------|-------|--------------|-----------|-------|----------------|
| Cadmium (mg/L) | HGWC-12 | 0.0005 | 0.0003 | 0.005 | No | 21 | 0.00044 | 0.0001313 | 80.95 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | HGWC-7 | 0.0005 | 0.0002 | 0.005 | No | 22 | 0.0004268 | 0.0001394 | 77.27 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | HGWC-8 | 0.0003 | 0.00017 | 0.005 | No | 21 | 0.0002924 | 0.0003358 | 4.762 | None | No | 0.01 | NP (normality) |
| Cadmium (mg/L) | HGWC-9 | 0.0005 | 0.0002 | 0.005 | No | 21 | 0.0004462 | 0.0001368 | 85.71 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | MW-19 | 0.0003417 | 0.0001502 | 0.005 | No | 12 | 0.0003508 | 0.0002735 | 25 | Kaplan-Meier | ln(x) | 0.01 | Param. |
| Chromium (mg/L) | HGWC-10 | 0.02 | 0.0012 | 0.1 | No | 21 | 0.005348 | 0.00355 | 85.71 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-11 | 0.005 | 0.0012 | 0.1 | No | 21 | 0.004386 | 0.001547 | 85.71 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-12 | 0.005 | 0.0025 | 0.1 | No | 21 | 0.004467 | 0.001382 | 85.71 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-13 | 0.005 | 0.00059 | 0.1 | No | 21 | 0.00436 | 0.001608 | 85.71 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-7 | 0.005 | 0.0021 | 0.1 | No | 22 | 0.006984 | 0.0144 | 68.18 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-8 | 0.005 | 0.0015 | 0.1 | No | 21 | 0.004215 | 0.001666 | 80.95 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-9 | 0.005 | 0.0013 | 0.1 | No | 21 | 0.004219 | 0.001657 | 80.95 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-19 | 0.005 | 0.00059 | 0.1 | No | 12 | 0.003035 | 0.002099 | 50 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | MW-20 | 0.005 | 0.00068 | 0.1 | No | 12 | 0.003908 | 0.001975 | 75 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-24D | 0.005 | 0.0017 | 0.1 | No | 12 | 0.004343 | 0.001558 | 83.33 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-25D | 0.005 | 0.0012 | 0.1 | No | 12 | 0.004317 | 0.001599 | 83.33 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-26D | 0.005 | 0.001 | 0.1 | No | 12 | 0.003505 | 0.001913 | 58.33 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-27D | 0.005 | 0.00082 | 0.1 | No | 12 | 0.004293 | 0.001651 | 83.33 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-28D | 0.005 | 0.00081 | 0.1 | No | 12 | 0.003137 | 0.002009 | 50 | None | No | 0.01 | NP (normality) |
| Chromium (mg/L) | MW-29 | 0.005 | 0.001 | 0.1 | No | 12 | 0.004667 | 0.001155 | 91.67 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-5 | 0.003948 | 0.002236 | 0.1 | No | 12 | 0.003092 | 0.001091 | 0 | None | No | 0.01 | Param. |
| Chromium (mg/L) | MW-6 | 0.005 | 0.00059 | 0.1 | No | 12 | 0.003952 | 0.001908 | 75 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-7 | 0.005 | 0.0015 | 0.1 | No | 12 | 0.002292 | 0.001295 | 16.67 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | HGWC-10 | 0.005 | 0.0009 | 0.038 | No | 21 | 0.00379 | 0.001963 | 71.43 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | HGWC-11 | 0.005 | 0.0014 | 0.038 | No | 21 | 0.003103 | 0.001799 | 42.86 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | HGWC-12 | 0.0018 | 0.0012 | 0.038 | No | 21 | 0.00151 | 0.0004265 | 9.524 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | HGWC-13 | 0.004201 | 0.002611 | 0.038 | No | 21 | 0.003686 | 0.002213 | 4.762 | None | ln(x) | 0.01 | Param. |
| Cobalt (mg/L) | HGWC-7 | 0.00147 | 0.0007471 | 0.038 | No | 22 | 0.001179 | 0.0007416 | 13.64 | None | sqrt(x) | 0.01 | Param. |
| Cobalt (mg/L) | HGWC-8 | 0.002242 | 0.001945 | 0.038 | No | 21 | 0.002094 | 0.0002693 | 9.524 | None | No | 0.01 | Param. |
| Cobalt (mg/L) | HGWC-9 | 0.0007 | 0.00051 | 0.038 | No | 21 | 0.0008643 | 0.0006357 | 9.524 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | MW-19 | 0.04167 | 0.0295 | 0.038 | No | 12 | 0.03558 | 0.007751 | 0 | None | No | 0.01 | Param. |
| Cobalt (mg/L) | MW-20 | 0.005 | 0.0011 | 0.038 | No | 12 | 0.004675 | 0.001126 | 91.67 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MW-24D | 0.005 | 0.00056 | 0.038 | No | 12 | 0.003909 | 0.001982 | 75 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MW-26D | 0.005 | 0.00044 | 0.038 | No | 12 | 0.001979 | 0.002232 | 33.33 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | MW-27D | 0.005 | 0.0004 | 0.038 | No | 12 | 0.003828 | 0.002121 | 75 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MW-28D | 0.005 | 0.00093 | 0.038 | No | 12 | 0.004661 | 0.001175 | 91.67 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MW-29 | 0.001228 | 0.0007098 | 0.038 | No | 12 | 0.0009692 | 0.0003305 | 0 | None | No | 0.01 | Param. |
| Cobalt (mg/L) | MW-6 | 0.005 | 0.00041 | 0.038 | No | 12 | 0.001263 | 0.001752 | 16.67 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | HGWC-10 | 1.067 | 0.604 | 5 | No | 23 | 0.8353 | 0.4423 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-11 | 1.134 | 0.6526 | 5 | No | 23 | 0.8934 | 0.4603 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-12 | 1.031 | 0.5721 | 5 | No | 23 | 0.8014 | 0.4385 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-13 | 0.9792 | 0.5965 | 5 | No | 23 | 0.7879 | 0.3658 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-7 | 0.8409 | 0.4167 | 5 | No | 24 | 0.6782 | 0.4762 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-8 | 0.9538 | 0.656 | 5 | No | 23 | 0.8049 | 0.2847 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-9 | 0.8913 | 0.5289 | 5 | No | 23 | 0.7101 | 0.3464 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-19 | 0.9587 | 0.412 | 5 | No | 12 | 0.6853 | 0.3484 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-20 | 1.002 | 0.3888 | 5 | No | 12 | 0.6953 | 0.3906 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-24D | 0.5788 | 0.1374 | 5 | No | 12 | 0.3767 | 0.3495 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-25D | 1.279 | 0.8145 | 5 | No | 12 | 1.047 | 0.296 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-26D | 0.9284 | 0.1186 | 5 | No | 12 | 0.5235 | 0.516 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-27D | 1.544 | 0.8213 | 5 | No | 12 | 1.196 | 0.5082 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-28D | 1.385 | 0.6077 | 5 | No | 12 | 0.9962 | 0.4951 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-29 | 0.9393 | 0.3837 | 5 | No | 12 | 0.6615 | 0.354 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-5 | 0.9737 | 0.5478 | 5 | No | 12 | 0.7608 | 0.2714 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-6 | 1.015 | 0.4421 | 5 | No | 12 | 0.7613 | 0.4499 | 0 | None | ln(x) | 0.01 | Param. |

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 1:13 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|---------|------------|------------|------------|------|----|-----------|------------|-------|--------------|-----------|-------|----------------|
| Combined Radium 226 + 228 (pCi/L) | MW-7 | 1.18 | 0.5086 | 5 | No | 12 | 0.8444 | 0.428 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-10 | 0.1861 | 0.08031 | 4 | No | 24 | 0.174 | 0.1317 | 16.67 | Kaplan-Meier | x^(1/3) | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-11 | 0.3995 | 0.2471 | 4 | No | 24 | 0.3355 | 0.1595 | 0 | None | sqrt(x) | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-12 | 0.34 | 0.17 | 4 | No | 24 | 0.3084 | 0.2332 | 4.167 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | HGWC-13 | 0.687 | 0.5004 | 4 | No | 24 | 0.5937 | 0.1829 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-7 | 0.15 | 0.084 | 4 | No | 26 | 0.145 | 0.1052 | 7.692 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | HGWC-8 | 0.63 | 0.45 | 4 | No | 25 | 0.556 | 0.1706 | 0 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | HGWC-9 | 0.2386 | 0.1022 | 4 | No | 24 | 0.1895 | 0.1498 | 8.333 | None | sqrt(x) | 0.01 | Param. |
| Fluoride (mg/L) | MW-19 | 0.2612 | 0.1025 | 4 | No | 12 | 0.1892 | 0.1289 | 0 | None | x^(1/3) | 0.01 | Param. |
| Fluoride (mg/L) | MW-20 | 0.1 | 0.074 | 4 | No | 12 | 0.09392 | 0.01119 | 75 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | MW-24D | 0.09451 | 0.04923 | 4 | No | 12 | 0.0855 | 0.03602 | 33.33 | Kaplan-Meier | sqrt(x) | 0.01 | Param. |
| Fluoride (mg/L) | MW-25D | 1.7 | 1.4 | 4 | No | 12 | 1.625 | 0.2006 | 0 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | MW-26D | 0.1259 | 0.05694 | 4 | No | 12 | 0.09142 | 0.04394 | 8.333 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | MW-27D | 0.3 | 0.22 | 4 | No | 12 | 0.2683 | 0.05219 | 0 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | MW-28D | 0.2415 | 0.1635 | 4 | No | 12 | 0.2025 | 0.04975 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | MW-29 | 0.18 | 0.068 | 4 | No | 12 | 0.09433 | 0.03293 | 58.33 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | MW-5 | 0.0865 | 0.05882 | 4 | No | 12 | 0.0795 | 0.01968 | 16.67 | Kaplan-Meier | No | 0.01 | Param. |
| Fluoride (mg/L) | MW-6 | 0.1052 | 0.05616 | 4 | No | 12 | 0.09983 | 0.05 | 16.67 | Kaplan-Meier | ln(x) | 0.01 | Param. |
| Fluoride (mg/L) | MW-7 | 0.17 | 0.069 | 4 | No | 12 | 0.09808 | 0.0268 | 66.67 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-10 | 0.001 | 0.00005 | 0.015 | No | 19 | 0.00095 | 0.0002179 | 94.74 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-11 | 0.001 | 0.00021 | 0.015 | No | 19 | 0.0007399 | 0.0003974 | 68.42 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-12 | 0.001 | 0.000096 | 0.015 | No | 19 | 0.0007757 | 0.0003928 | 73.68 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-13 | 0.001 | 0.00015 | 0.015 | No | 19 | 0.0007258 | 0.0004152 | 68.42 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-7 | 0.001 | 0.0001 | 0.015 | No | 20 | 0.0006997 | 0.0004322 | 55 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-8 | 0.001 | 0.0002 | 0.015 | No | 19 | 0.0008172 | 0.0003643 | 78.95 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-9 | 0.001 | 0.00014 | 0.015 | No | 19 | 0.0006481 | 0.000426 | 57.89 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | MW-19 | 0.001 | 0.000071 | 0.015 | No | 10 | 0.0006304 | 0.0004775 | 60 | None | No | 0.011 | NP (NDs) |
| Lead (mg/L) | MW-20 | 0.001 | 0.0001 | 0.015 | No | 10 | 0.0006439 | 0.0004608 | 60 | None | No | 0.011 | NP (NDs) |
| Lead (mg/L) | MW-24D | 0.001 | 0.000042 | 0.015 | No | 10 | 0.0005456 | 0.0004809 | 50 | None | No | 0.011 | NP (normality) |
| Lead (mg/L) | MW-26D | 0.001 | 0.0001 | 0.015 | No | 10 | 0.000818 | 0.0003837 | 80 | None | No | 0.011 | NP (NDs) |
| Lead (mg/L) | MW-27D | 0.001 | 0.00043 | 0.015 | No | 10 | 0.000856 | 0.0003117 | 80 | None | No | 0.011 | NP (NDs) |
| Lead (mg/L) | MW-28D | 0.001 | 0.00018 | 0.015 | No | 10 | 0.0007022 | 0.0003965 | 50 | None | No | 0.011 | NP (normality) |
| Lead (mg/L) | MW-29 | 0.001 | 0.00009 | 0.015 | No | 10 | 0.0007252 | 0.0004427 | 70 | None | No | 0.011 | NP (NDs) |
| Lead (mg/L) | MW-5 | 0.001 | 0.0001 | 0.015 | No | 10 | 0.0009047 | 0.0003014 | 90 | None | No | 0.011 | NP (NDs) |
| Lead (mg/L) | MW-6 | 0.001 | 0.000084 | 0.015 | No | 10 | 0.000651 | 0.000454 | 60 | None | No | 0.011 | NP (NDs) |
| Lead (mg/L) | MW-7 | 0.001 | 0.0001 | 0.015 | No | 10 | 0.0009062 | 0.0002966 | 90 | None | No | 0.011 | NP (NDs) |
| Lithium (mg/L) | HGWC-12 | 0.01048 | 0.008019 | 0.064 | No | 23 | 0.009248 | 0.00235 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | HGWC-13 | 0.03735 | 0.03093 | 0.064 | No | 23 | 0.03414 | 0.006137 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | HGWC-7 | 0.0026 | 0.002 | 0.064 | No | 24 | 0.002958 | 0.002614 | 4.167 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | HGWC-8 | 0.0029 | 0.0025 | 0.064 | No | 23 | 0.003196 | 0.002599 | 4.348 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | HGWC-9 | 0.0044 | 0.004 | 0.064 | No | 23 | 0.004596 | 0.002319 | 4.348 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | MW-19 | 0.01297 | 0.008428 | 0.064 | No | 12 | 0.01046 | 0.003347 | 0 | None | x^2 | 0.01 | Param. |
| Lithium (mg/L) | MW-20 | 0.03 | 0.00082 | 0.064 | No | 12 | 0.008322 | 0.01307 | 25 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | MW-24D | 0.002843 | 0.00254 | 0.064 | No | 12 | 0.002692 | 0.0001929 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MW-25D | 0.0502 | 0.0428 | 0.064 | No | 12 | 0.0465 | 0.004719 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MW-26D | 0.0041 | 0.0032 | 0.064 | No | 12 | 0.005775 | 0.007636 | 0 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | MW-27D | 0.008546 | 0.006254 | 0.064 | No | 12 | 0.0074 | 0.00146 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MW-28D | 0.01282 | 0.007277 | 0.064 | No | 12 | 0.01005 | 0.003534 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MW-29 | 0.002354 | 0.00203 | 0.064 | No | 12 | 0.002192 | 0.0002065 | 0 | None | No | 0.01 | Param. |
| Mercury (mg/L) | HGWC-10 | 0.0002 | 0.00005 | 0.002 | No | 15 | 0.00019 | 0.00003873 | 93.33 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | HGWC-11 | 0.0002 | 0.00005 | 0.002 | No | 15 | 0.00019 | 0.00003873 | 93.33 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | HGWC-13 | 0.0002 | 0.00005 | 0.002 | No | 15 | 0.0001793 | 0.00005457 | 86.67 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | HGWC-9 | 0.0002 | 0.00004 | 0.002 | No | 15 | 0.0001893 | 0.00004131 | 93.33 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | HGWC-10 | 0.01 | 0.0014 | 0.1 | No | 23 | 0.006591 | 0.004354 | 60.87 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | HGWC-11 | 0.02635 | 0.01705 | 0.1 | No | 23 | 0.0217 | 0.008891 | 0 | None | No | 0.01 | Param. |

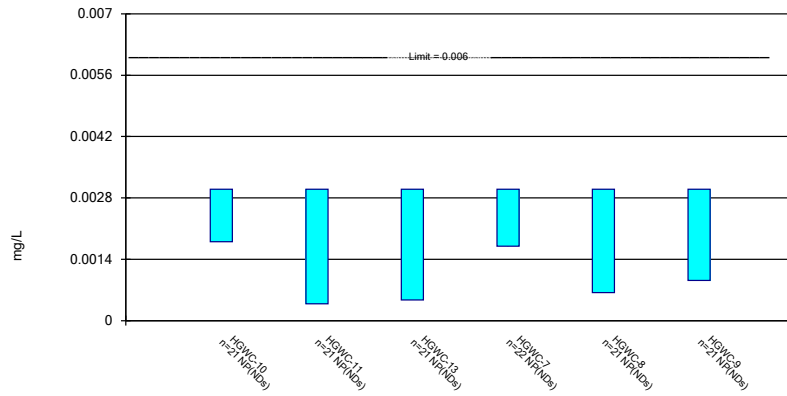
Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 1:13 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|--------------------------|---------------|---------------|---------------|------------|------------|-----------|---------------|----------------|----------|--------------|------------|-------------|----------------|
| Molybdenum (mg/L) | HGWC-12 | 0.04914 | 0.04557 | 0.1 | No | 23 | 0.04735 | 0.003411 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-13 | 0.03523 | 0.03001 | 0.1 | No | 23 | 0.03262 | 0.004987 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-7 | 0.04271 | 0.03586 | 0.1 | No | 25 | 0.03928 | 0.006866 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-8 | 0.4856 | 0.4241 | 0.1 | Yes | 24 | 0.4513 | 0.06596 | 0 | None | x^2 | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-9 | 0.033 | 0.0236 | 0.1 | No | 23 | 0.04746 | 0.09377 | 0 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | MW-19 | 0.05279 | 0.02587 | 0.1 | No | 12 | 0.03933 | 0.01715 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-24D | 0.01 | 0.0008 | 0.1 | No | 12 | 0.00392 | 0.004496 | 33.33 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | MW-25D | 0.01 | 0.0022 | 0.1 | No | 12 | 0.008595 | 0.003292 | 83.33 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | MW-26D | 0.02425 | 0.01175 | 0.1 | No | 13 | 0.018 | 0.008412 | 7.692 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-27D | 0.003636 | 0.001403 | 0.1 | No | 12 | 0.002583 | 0.001576 | 8.333 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum (mg/L) | MW-28D | 0.01969 | 0.007547 | 0.1 | No | 12 | 0.01362 | 0.007735 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-29 | 0.003287 | 0.002479 | 0.1 | No | 12 | 0.002883 | 0.0005149 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-6 | 0.002699 | 0.002284 | 0.1 | No | 12 | 0.002492 | 0.0002644 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-7 | 0.01 | 0.0014 | 0.1 | No | 12 | 0.005283 | 0.004211 | 41.67 | None | No | 0.01 | NP (normality) |
| Selenium (mg/L) | HGWC-10 | 0.005 | 0.0031 | 0.05 | No | 23 | 0.004174 | 0.001266 | 65.22 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-11 | 0.01395 | 0.006463 | 0.05 | No | 23 | 0.0102 | 0.007153 | 0 | None | No | 0.01 | Param. |
| Selenium (mg/L) | HGWC-12 | 0.005 | 0.0011 | 0.05 | No | 23 | 0.00483 | 0.0008132 | 95.65 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-13 | 0.005 | 0.0016 | 0.05 | No | 23 | 0.004643 | 0.001203 | 91.3 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-8 | 0.005 | 0.0024 | 0.05 | No | 23 | 0.004887 | 0.0005421 | 95.65 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-9 | 0.005 | 0.0037 | 0.05 | No | 23 | 0.004943 | 0.0002711 | 95.65 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MW-19 | 0.00488 | 0.002282 | 0.05 | No | 12 | 0.00395 | 0.001709 | 16.67 | Kaplan-Meier | No | 0.01 | Param. |
| Selenium (mg/L) | MW-27D | 0.005 | 0.00012 | 0.05 | No | 12 | 0.004593 | 0.001409 | 91.67 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MW-5 | 0.003736 | 0.002447 | 0.05 | No | 12 | 0.003092 | 0.0008218 | 0 | None | No | 0.01 | Param. |
| Selenium (mg/L) | MW-7 | 0.005 | 0.0014 | 0.05 | No | 12 | 0.003383 | 0.00172 | 50 | None | No | 0.01 | NP (normality) |
| Thallium (mg/L) | HGWC-11 | 0.001 | 0.00008 | 0.002 | No | 23 | 0.00092 | 0.0002651 | 91.3 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | HGWC-12 | 0.001 | 0.0002 | 0.002 | No | 23 | 0.0007663 | 0.0004029 | 73.91 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | HGWC-13 | 0.0004273 | 0.0003377 | 0.002 | No | 23 | 0.0003825 | 0.00008561 | 8.696 | None | No | 0.01 | Param. |
| Thallium (mg/L) | HGWC-8 | 0.001 | 0.00011 | 0.002 | No | 23 | 0.0007247 | 0.0004261 | 69.57 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | MW-19 | 0.001 | 0.00023 | 0.002 | No | 12 | 0.0005025 | 0.0003683 | 33.33 | None | No | 0.01 | NP (normality) |
| Thallium (mg/L) | MW-28D | 0.001 | 0.000092 | 0.002 | No | 12 | 0.0009243 | 0.0002621 | 91.67 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | MW-29 | 0.001 | 0.000064 | 0.002 | No | 12 | 0.000922 | 0.0002702 | 91.67 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | MW-6 | 0.001 | 0.000082 | 0.002 | No | 12 | 0.0009235 | 0.000265 | 91.67 | None | No | 0.01 | NP (NDs) |

Non-Parametric Confidence Interval

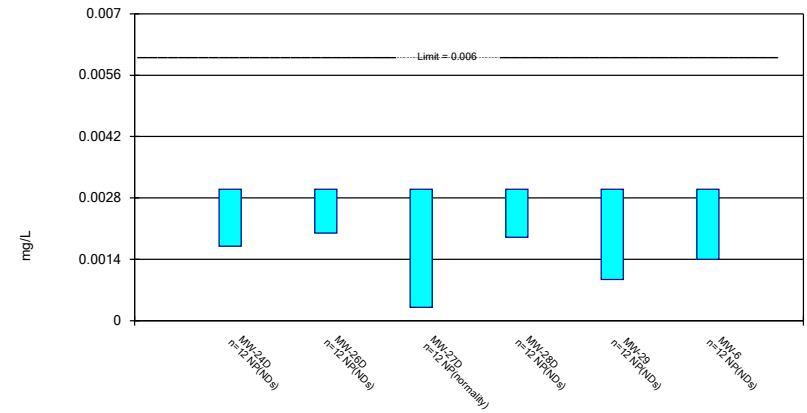
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 4/14/2023 1:07 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

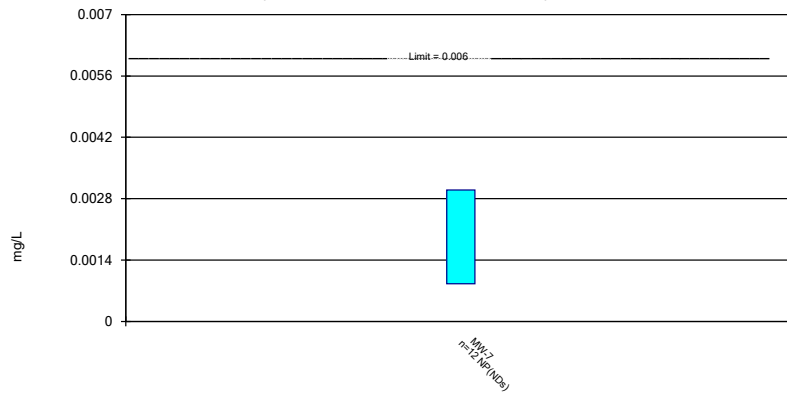
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 4/14/2023 1:07 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

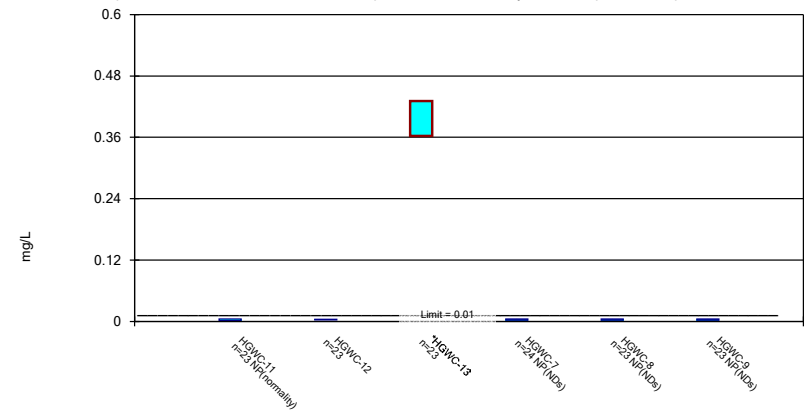
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 4/14/2023 1:07 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

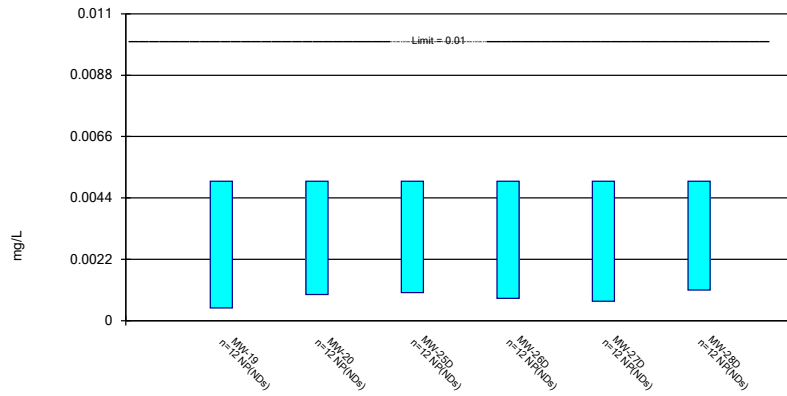
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 4/14/2023 1:07 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

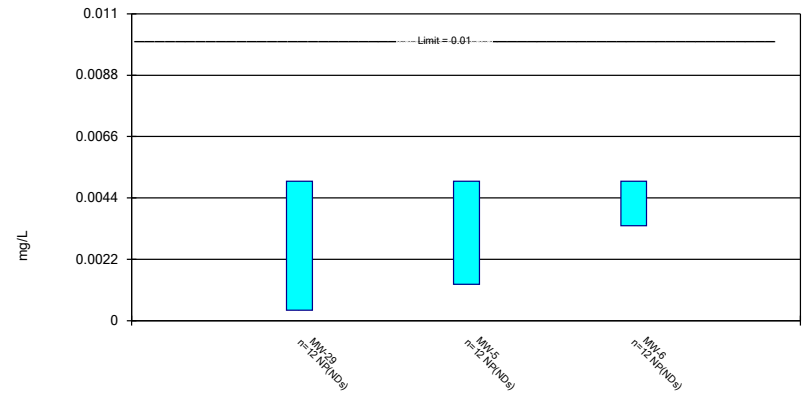
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 4/14/2023 1:07 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

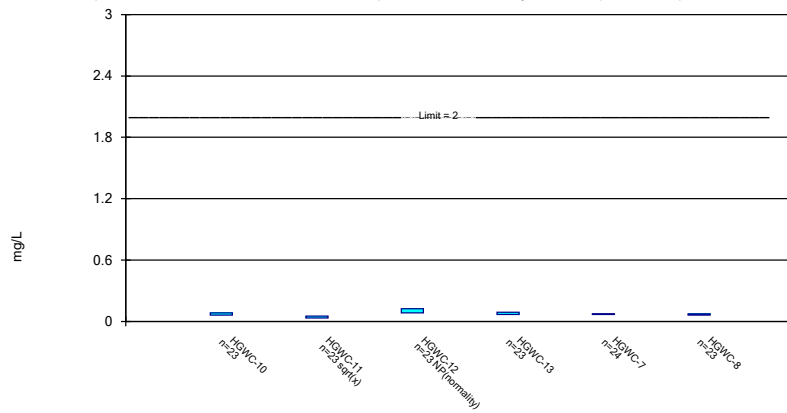
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 4/14/2023 1:07 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

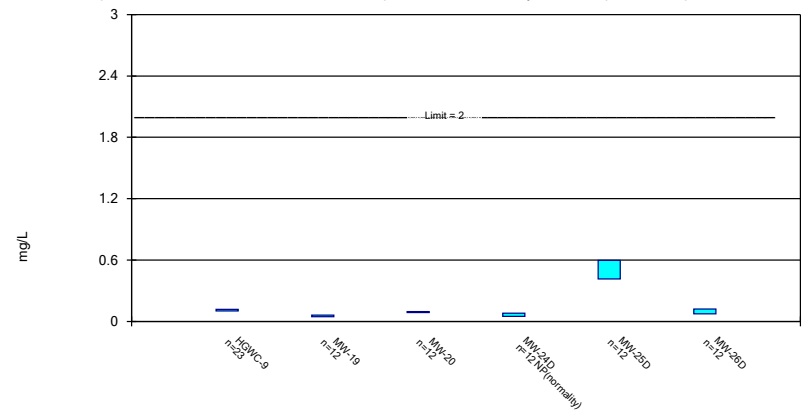
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/14/2023 1:07 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

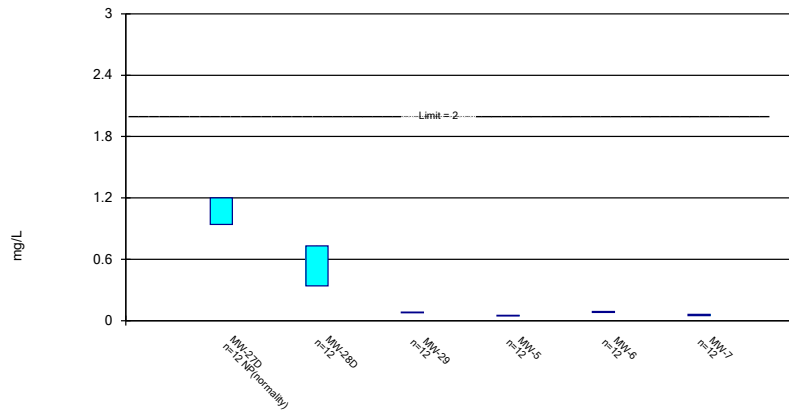
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/14/2023 1:07 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

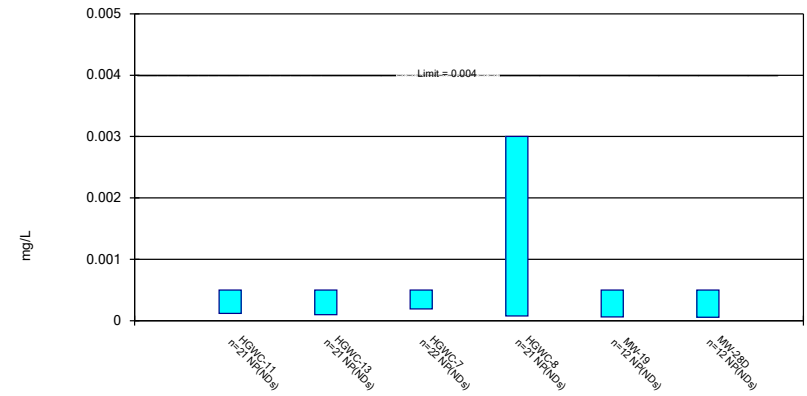
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/14/2023 1:07 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

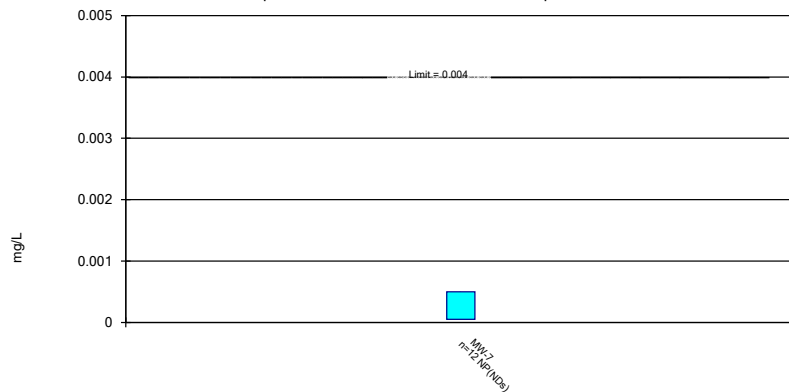
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 4/14/2023 1:07 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

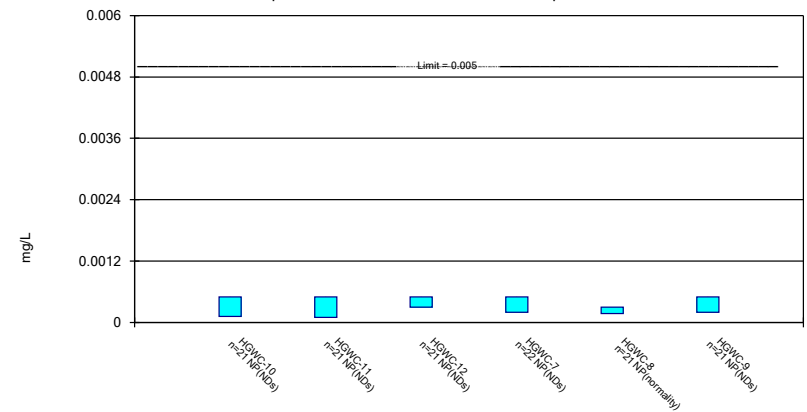
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 4/14/2023 1:07 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

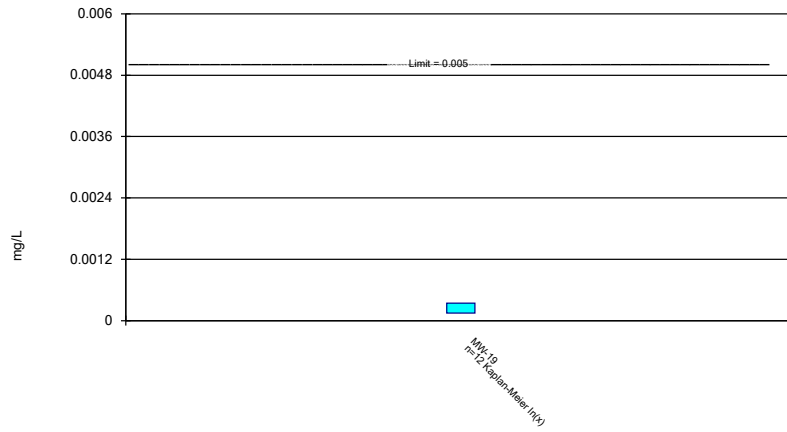
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 4/14/2023 1:07 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric Confidence Interval

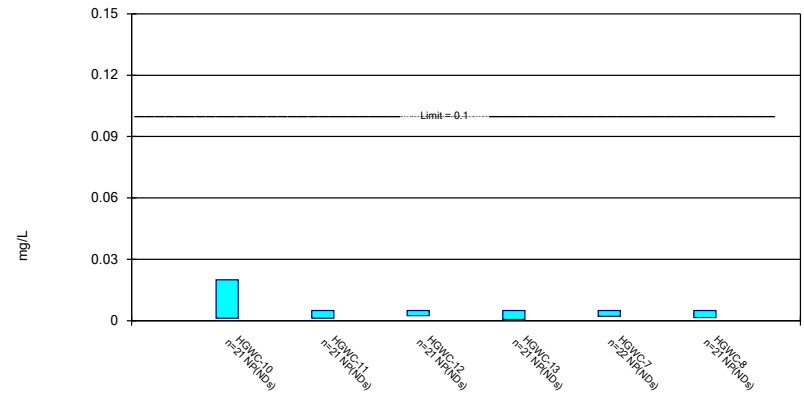
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 4/14/2023 1:07 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

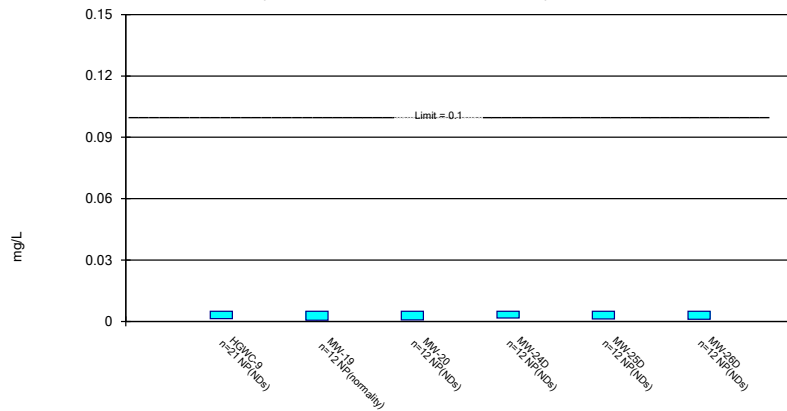
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 4/14/2023 1:07 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

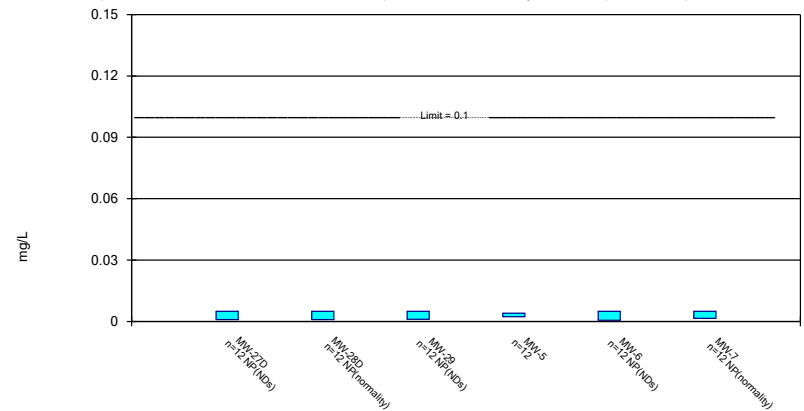
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 4/14/2023 1:07 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

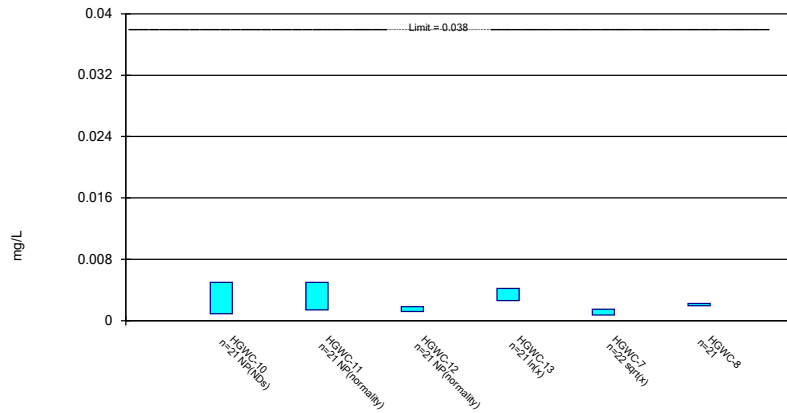
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 4/14/2023 1:07 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

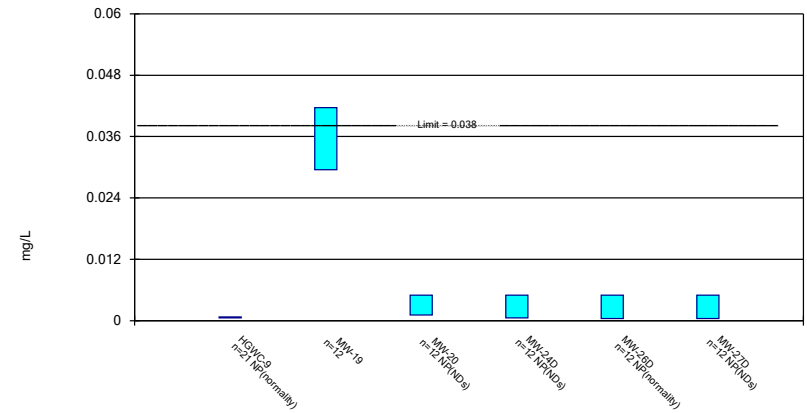
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/14/2023 1:07 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

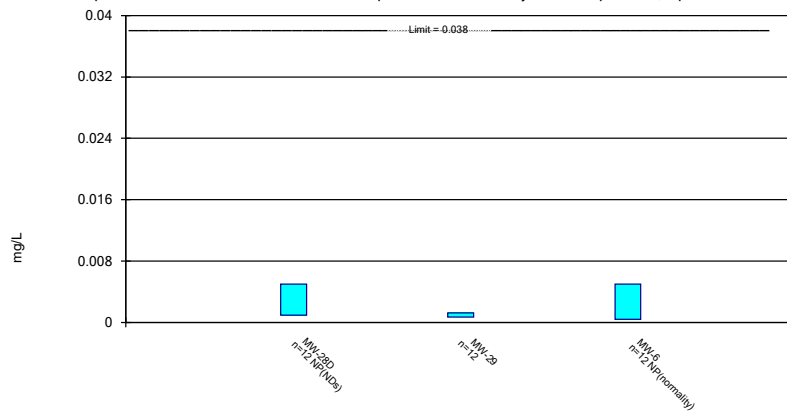
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/14/2023 1:07 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

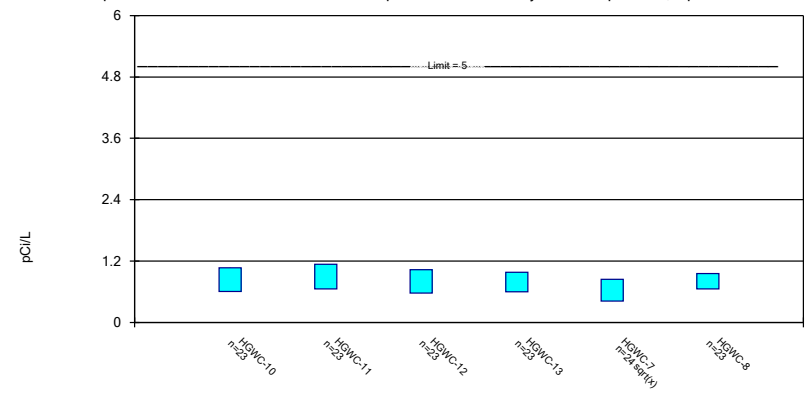
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/14/2023 1:07 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric Confidence Interval

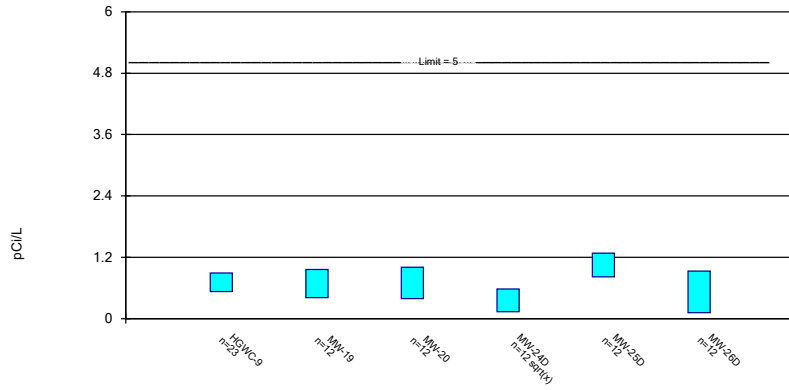
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/14/2023 1:08 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric Confidence Interval

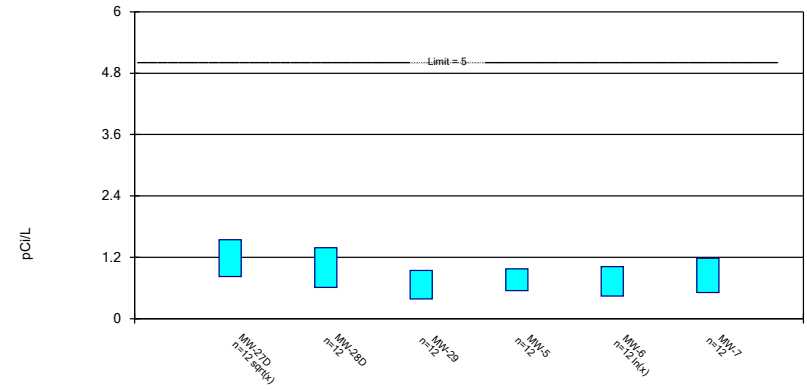
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/14/2023 1:08 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric Confidence Interval

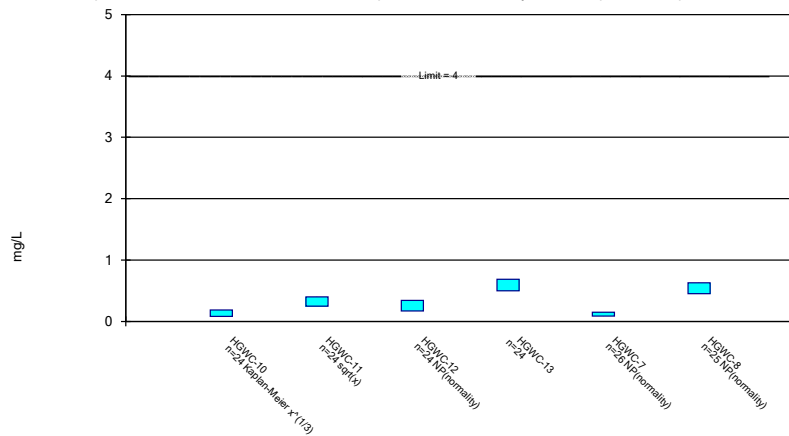
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Constituent: Combined Radium 226 + 228 Analysis Run 4/14/2023 1:08 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

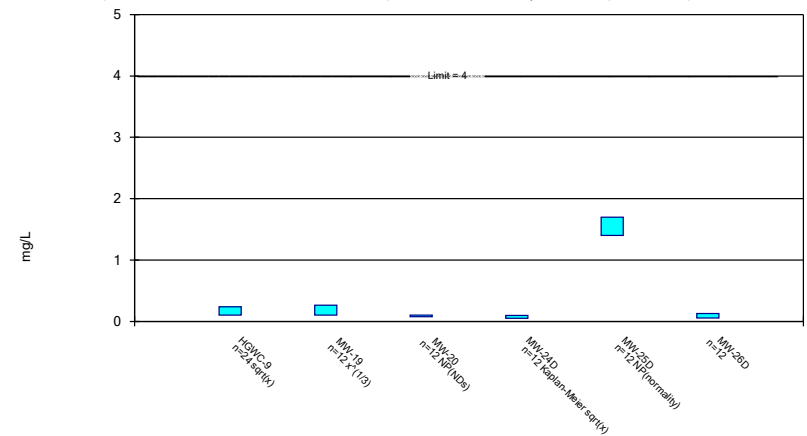
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/14/2023 1:08 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

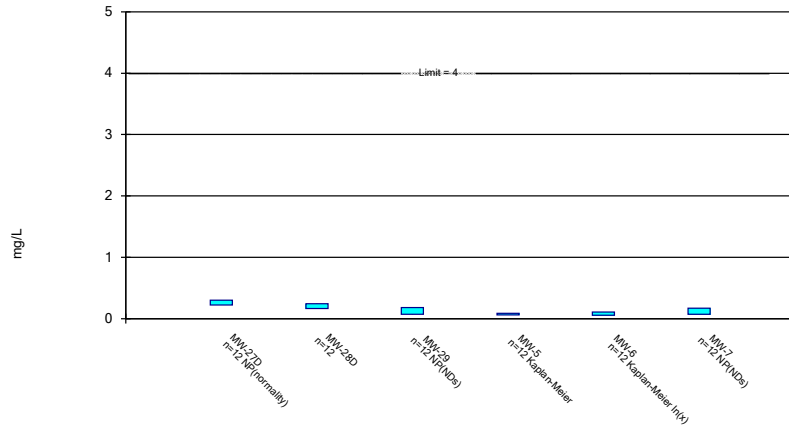
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/14/2023 1:08 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

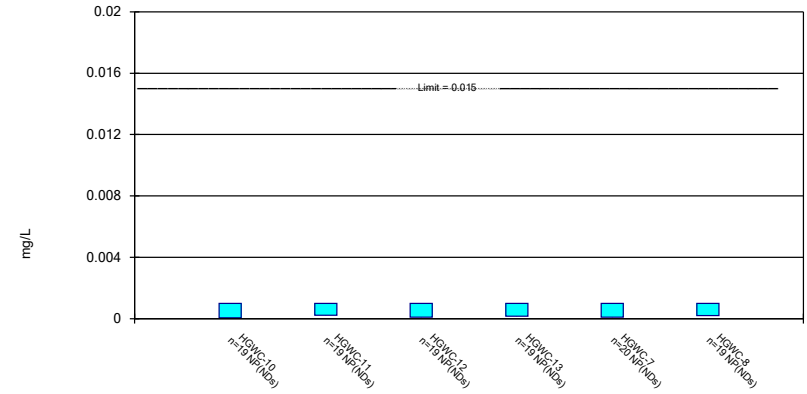
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/14/2023 1:08 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

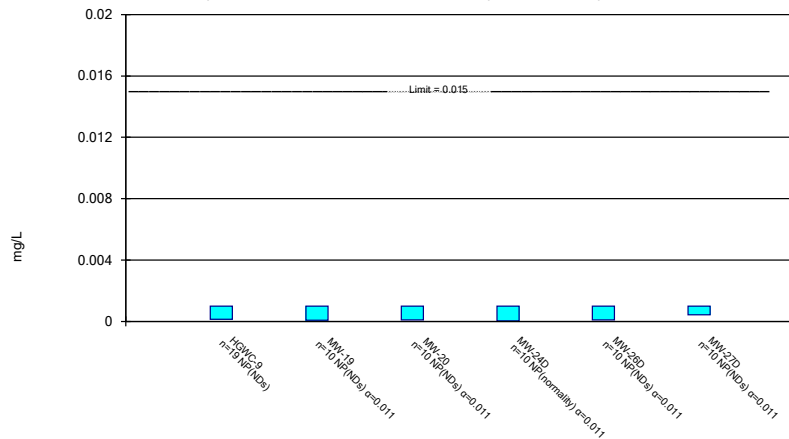
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 4/14/2023 1:08 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

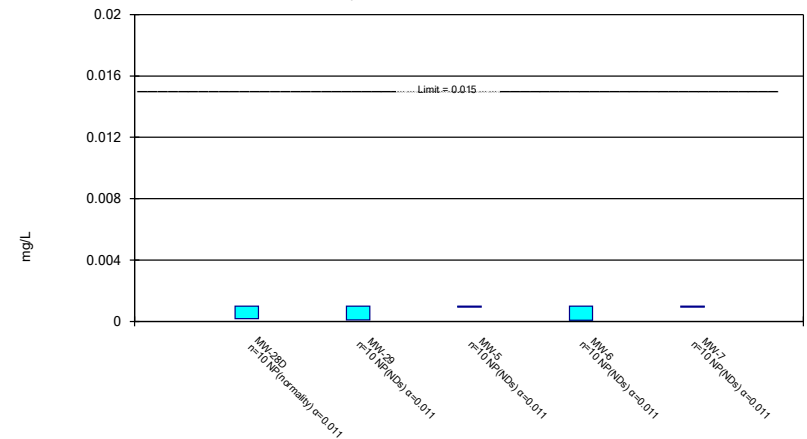
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 4/14/2023 1:08 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

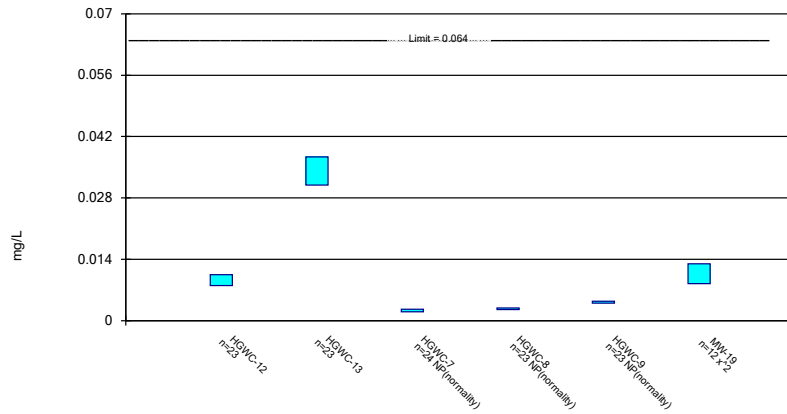
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 4/14/2023 1:08 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

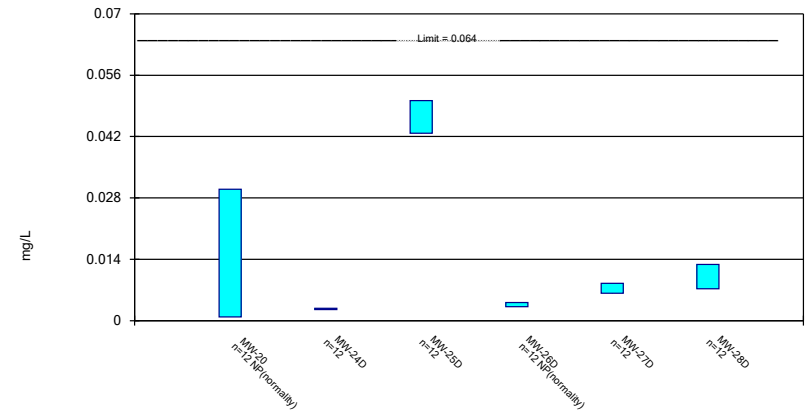
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Constituent: Lithium Analysis Run 4/14/2023 1:08 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

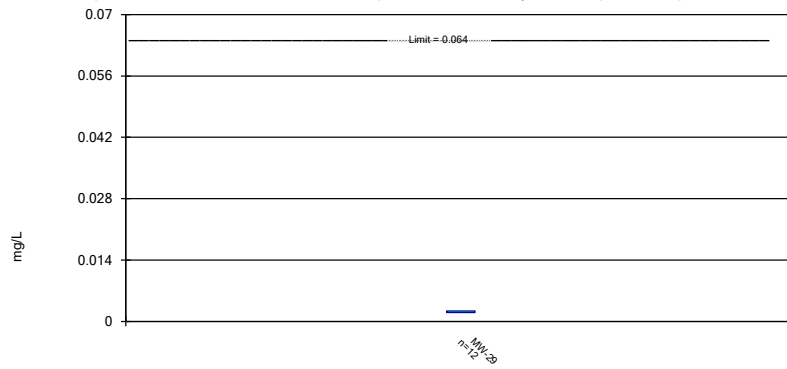
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/14/2023 1:08 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric Confidence Interval

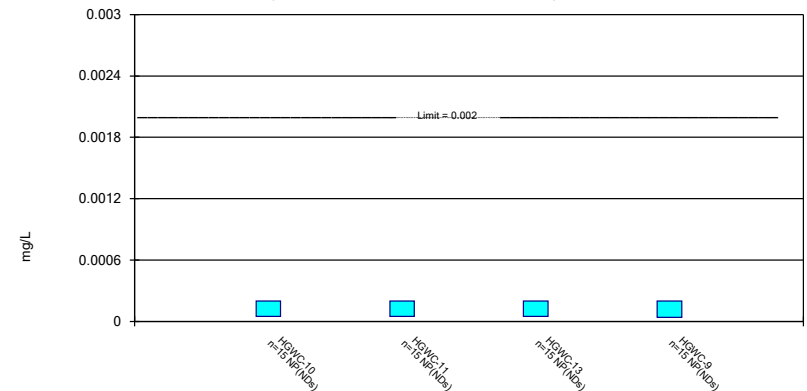
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/14/2023 1:08 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

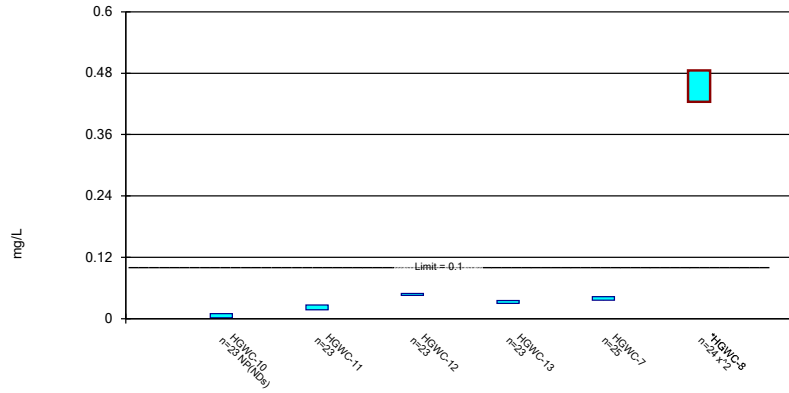
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 4/14/2023 1:08 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

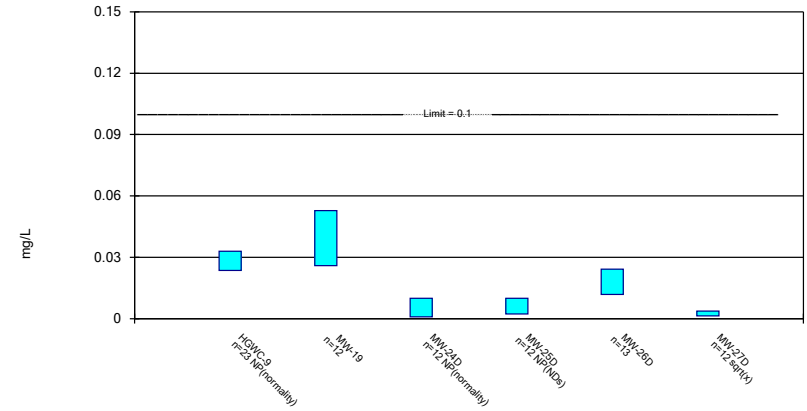
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/14/2023 1:08 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

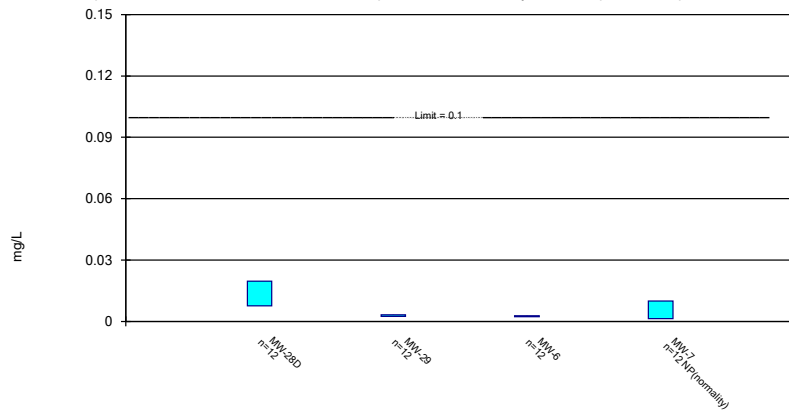
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/14/2023 1:08 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

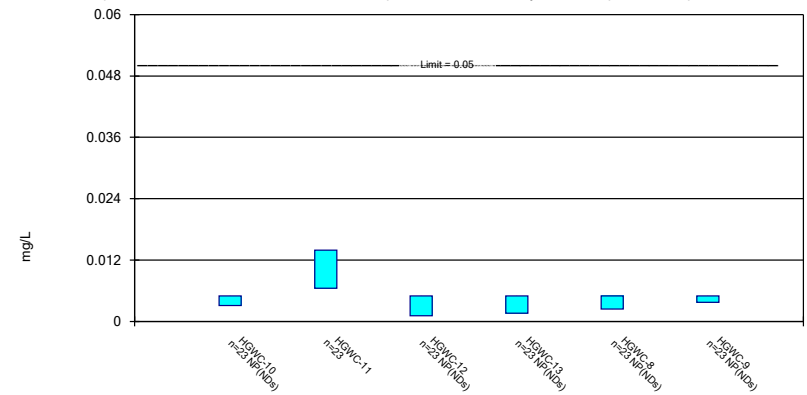
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/14/2023 1:08 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

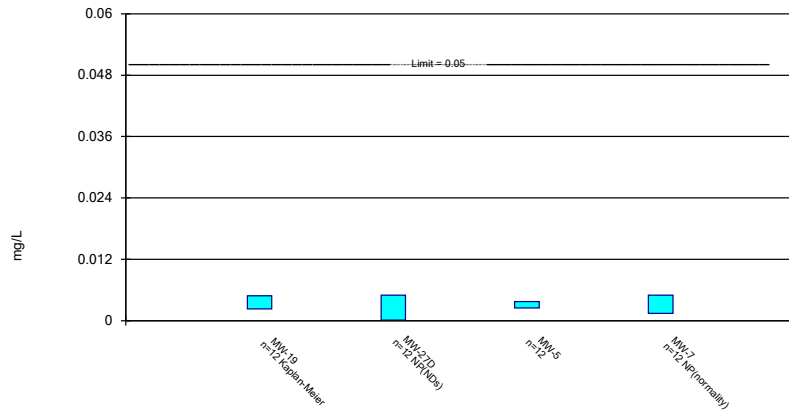
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/14/2023 1:08 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

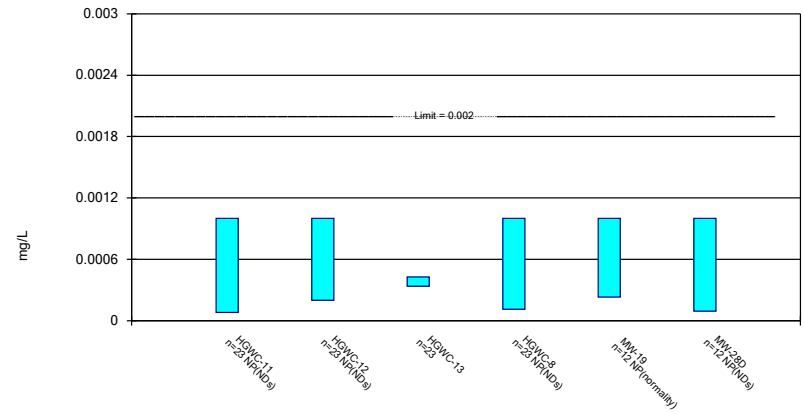
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/14/2023 1:08 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

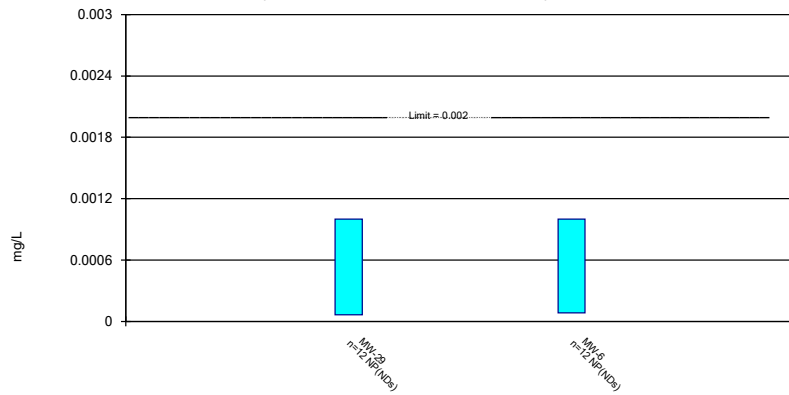
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 4/14/2023 1:08 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 4/14/2023 1:08 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 5/20/2016 | | | | <0.003 | <0.003 | |
| 5/23/2016 | <0.003 | <0.003 | <0.003 | | | <0.003 |
| 7/12/2016 | <0.003 | <0.003 | 0.0003 (J) | <0.003 | <0.003 | <0.003 |
| 9/1/2016 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 |
| 10/20/2016 | | | | <0.003 | <0.003 | <0.003 |
| 10/24/2016 | <0.003 | <0.003 | <0.003 | | | |
| 12/6/2016 | | | | <0.003 | <0.003 | <0.003 |
| 12/7/2016 | <0.003 | <0.003 | <0.003 | | | |
| 1/25/2017 | | | | <0.003 | <0.003 | |
| 1/26/2017 | <0.003 | <0.003 | <0.003 | | | <0.003 |
| 3/21/2017 | | | | <0.003 | <0.003 | |
| 3/22/2017 | <0.003 | <0.003 | <0.003 | | | <0.003 |
| 5/23/2017 | | | | <0.003 | <0.003 | <0.003 |
| 5/24/2017 | <0.003 | <0.003 | <0.003 | | | |
| 4/3/2018 | | | | <0.003 | <0.003 | <0.003 |
| 4/4/2018 | <0.003 | <0.003 | <0.003 | | | |
| 3/12/2019 | | | | | <0.003 | |
| 3/13/2019 | <0.003 | <0.003 | <0.003 | <0.003 | | <0.003 |
| 4/2/2019 | | | | <0.003 | | |
| 4/3/2019 | <0.003 | <0.003 | | | <0.003 | <0.003 |
| 4/5/2019 | | | 0.00021 (J) | | | |
| 9/24/2019 | | | | | <0.003 | |
| 9/25/2019 | | | | <0.003 | | |
| 9/26/2019 | | | <0.003 | | | |
| 9/27/2019 | <0.003 | <0.003 | | | | <0.003 |
| 3/3/2020 | <0.003 | <0.003 | | | <0.003 | |
| 3/4/2020 | | | 0.00061 (J) | <0.003 | | 0.00032 (J) |
| 3/27/2020 | | | | <0.003 | <0.003 | |
| 3/30/2020 | | | 0.00036 (J) | | | |
| 3/31/2020 | | <0.003 | | | | 0.00042 (J) |
| 4/1/2020 | <0.003 | | | | | |
| 9/16/2020 | <0.003 | | | 0.00034 (J) | <0.003 | |
| 9/17/2020 | | | | | | <0.003 |
| 9/18/2020 | | 0.00038 (J) | | | | |
| 9/21/2020 | | | 0.00029 (J) | | | |
| 2/10/2021 | | | | <0.003 | | |
| 2/12/2021 | | <0.003 | | | | |
| 2/15/2021 | 0.00065 (J) | | | | | |
| 2/16/2021 | | | | | 0.00064 (J) | 0.00043 (J) |
| 2/22/2021 | | | 0.00047 (J) | | | |
| 3/12/2021 | <0.003 | | | | | |
| 3/15/2021 | | | | <0.003 | <0.003 | |
| 3/16/2021 | | <0.003 | | | | <0.003 |
| 3/17/2021 | | | 0.00049 (J) | | | |
| 8/16/2021 | | | | 0.0017 (J) | | |
| 8/17/2021 | <0.003 | | | | | <0.003 |
| 8/18/2021 | | <0.003 | | | <0.003 | |
| 8/19/2021 | | | <0.003 | | | |
| 2/9/2022 | <0.003 | <0.003 | | | | <0.003 |
| 2/10/2022 | | | <0.003 | <0.003 | <0.003 | |
| 8/3/2022 | 0.0018 (J) | <0.003 | <0.003 | <0.003 | <0.003 | |
| 8/4/2022 | | | | | | <0.003 |

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|----------|-----------|----------|-----------|----------|-------------|
| 8/11/2022 | | | | <0.003 | | |
| 1/26/2023 | | <0.003 | <0.003 | | | 0.00092 (J) |
| 1/27/2023 | <0.003 | | | <0.003 | | |
| 2/1/2023 | | | | | <0.003 | |
| Mean | 0.002831 | 0.002875 | 0.00213 | 0.00282 | 0.002888 | 0.002528 |
| Std. Dev. | 0.000564 | 0.0005717 | 0.001263 | 0.0006192 | 0.000515 | 0.001002 |
| Upper Lim. | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Lower Lim. | 0.0018 | 0.00038 | 0.00047 | 0.0017 | 0.00064 | 0.00092 |

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-24D | MW-26D | MW-27D | MW-28D | MW-29 | MW-6 |
|------------|------------|------------|-------------|------------|-------------|------------|
| 3/12/2019 | | | | <0.003 | <0.003 | |
| 3/13/2019 | <0.003 | <0.003 | <0.003 | | | <0.003 |
| 4/2/2019 | | | | <0.003 | <0.003 | |
| 4/3/2019 | | <0.003 | | | | <0.003 |
| 4/4/2019 | | | 0.00016 (J) | | | |
| 4/8/2019 | <0.003 | | | | | |
| 9/24/2019 | | | | | <0.003 | |
| 9/26/2019 | <0.003 | <0.003 | 0.0003 (J) | <0.003 | | <0.003 |
| 3/2/2020 | | | | | <0.003 | |
| 3/3/2020 | | | | | | <0.003 |
| 3/4/2020 | 0.0017 (J) | 0.002 (J) | 0.00037 (J) | <0.003 | | |
| 3/27/2020 | | | | <0.003 | | <0.003 |
| 3/30/2020 | <0.003 | | | | <0.003 | |
| 3/31/2020 | | 0.0013 (J) | | | | |
| 4/2/2020 | | | 0.0003 (J) | | | |
| 9/16/2020 | | | | | <0.003 | |
| 9/17/2020 | | <0.003 | | | | |
| 9/18/2020 | | | 0.00031 (J) | | | |
| 9/21/2020 | <0.003 | | | <0.003 | | 0.0014 (J) |
| 2/10/2021 | | | | 0.0019 (J) | | |
| 2/15/2021 | | | | | 0.00094 (J) | |
| 2/16/2021 | <0.003 | <0.003 | 0.00038 (J) | | | <0.003 |
| 3/12/2021 | | | <0.003 | | | |
| 3/15/2021 | | | | <0.003 | <0.003 | |
| 3/16/2021 | | | | | | <0.003 |
| 3/17/2021 | <0.003 | <0.003 | | | | |
| 8/16/2021 | | | | | <0.003 | |
| 8/17/2021 | | <0.003 | <0.003 | | | <0.003 |
| 8/18/2021 | | | | <0.003 | | |
| 8/19/2021 | <0.003 | | | | | |
| 2/9/2022 | | <0.003 | | | | <0.003 |
| 2/10/2022 | <0.003 | | <0.003 | <0.003 | <0.003 | |
| 8/3/2022 | <0.003 | | <0.003 | | <0.003 | <0.003 |
| 8/4/2022 | | <0.003 | | <0.003 | | |
| 1/26/2023 | <0.003 | <0.003 | | <0.003 | <0.003 | <0.003 |
| 1/27/2023 | | | <0.003 | | | |
| Mean | 0.002892 | 0.002775 | 0.001652 | 0.002908 | 0.002828 | 0.002867 |
| Std. Dev. | 0.0003753 | 0.0005463 | 0.001409 | 0.0003175 | 0.0005947 | 0.0004619 |
| Upper Lim. | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Lower Lim. | 0.0017 | 0.002 | 0.0003 | 0.0019 | 0.00094 | 0.0014 |

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-7 |
|------------|-------------|
| 3/13/2019 | 0.00086 (J) |
| 4/3/2019 | <0.003 |
| 9/26/2019 | <0.003 |
| 3/3/2020 | 0.0013 (J) |
| 3/30/2020 | <0.003 |
| 9/21/2020 | 0.00051 (J) |
| 2/15/2021 | 0.0021 (J) |
| 3/15/2021 | <0.003 |
| 8/17/2021 | <0.003 |
| 2/8/2022 | <0.003 |
| 8/4/2022 | <0.003 |
| 1/26/2023 | <0.003 |
| Mean | 0.002398 |
| Std. Dev. | 0.0009593 |
| Upper Lim. | 0.003 |
| Lower Lim. | 0.00086 |

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-------------|------------|---------|------------|--------|-------------|
| 5/20/2016 | | | | <0.005 | <0.005 | |
| 5/23/2016 | <0.005 | 0.0046 (J) | 0.329 | | | <0.005 |
| 7/12/2016 | 0.0015 (J) | 0.005 | 0.297 | <0.005 | <0.005 | <0.005 |
| 9/1/2016 | <0.005 | 0.0043 (J) | 0.314 | <0.005 | <0.005 | <0.005 |
| 10/20/2016 | | | | <0.005 | <0.005 | <0.005 |
| 10/24/2016 | <0.005 | 0.0049 (J) | 0.334 | | | |
| 12/6/2016 | | | | <0.005 | <0.005 | <0.005 |
| 12/7/2016 | <0.005 | 0.0046 (J) | 0.35 | | | |
| 1/25/2017 | | | | <0.005 | <0.005 | |
| 1/26/2017 | <0.005 | <0.005 | 0.424 | | | <0.005 |
| 3/21/2017 | | | | <0.005 | <0.005 | |
| 3/22/2017 | 0.0053 | 0.0019 (J) | 0.419 | | | 0.0008 (J) |
| 5/23/2017 | | | | <0.005 | <0.005 | <0.005 |
| 5/24/2017 | <0.005 | 0.0022 (J) | 0.393 | | | |
| 4/3/2018 | | | | <0.005 | <0.005 | <0.005 |
| 4/4/2018 | <0.005 | <0.005 | 0.49 | | | |
| 6/5/2018 | 0.0012 (J) | | 0.38 | <0.005 | | |
| 6/6/2018 | | 0.0048 (J) | | | <0.005 | <0.005 |
| 10/2/2018 | | | | 0.0019 (J) | <0.005 | <0.005 |
| 10/3/2018 | <0.005 | 0.0037 (J) | | | | |
| 10/5/2018 | | | 0.34 | | | |
| 3/12/2019 | | | | | <0.005 | |
| 3/13/2019 | 0.0024 (J) | | 0.42 | <0.005 | | 0.00075 (J) |
| 3/14/2019 | | 0.0026 (J) | | | | |
| 4/2/2019 | | | | <0.005 | | |
| 4/3/2019 | 0.00094 (J) | 0.0022 (J) | | | <0.005 | <0.005 |
| 4/5/2019 | | | 0.36 | | | |
| 9/24/2019 | | | | | <0.005 | |
| 9/25/2019 | | | | <0.005 | | |
| 9/26/2019 | | | 0.44 | | | |
| 9/27/2019 | 0.0018 (J) | 0.0061 | | | | 0.00037 (J) |
| 3/3/2020 | 0.0022 (J) | 0.0023 (J) | | | <0.005 | |
| 3/4/2020 | | | 0.52 | <0.005 | | <0.005 |
| 3/26/2020 | | 0.0028 (J) | | | | |
| 3/27/2020 | | | | <0.005 | <0.005 | |
| 3/30/2020 | | | 0.47 | | | |
| 3/31/2020 | 0.0022 (J) | | | | | <0.005 |
| 9/16/2020 | | | | <0.005 | <0.005 | |
| 9/17/2020 | | | | | | <0.005 |
| 9/18/2020 | 0.00081 (J) | 0.0031 (J) | | | | |
| 9/21/2020 | | | 0.39 | | | |
| 2/10/2021 | | | | <0.005 | | |
| 2/12/2021 | 0.002 (J) | 0.0045 (J) | | | | |
| 2/16/2021 | | | | | <0.005 | <0.005 |
| 2/22/2021 | | | 0.45 | | | |
| 3/15/2021 | | | | <0.005 | <0.005 | |
| 3/16/2021 | 0.0017 (J) | 0.0038 (J) | | | | <0.005 |
| 3/17/2021 | | | 0.39 | | | |
| 8/16/2021 | | | | <0.005 | | |
| 8/17/2021 | | | | | | <0.005 |
| 8/18/2021 | <0.005 | 0.0028 (J) | | | <0.005 | |
| 8/19/2021 | | | 0.31 | | | |

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|------------|------------|---------|-----------|-----------|------------|
| 2/9/2022 | 0.0047 (J) | 0.0053 | | | | 0.0021 (J) |
| 2/10/2022 | | | 0.38 | <0.005 | 0.002 (J) | |
| 8/3/2022 | <0.005 | 0.0023 (J) | 0.4 | <0.005 | <0.005 | |
| 8/4/2022 | | | | | | <0.005 |
| 8/11/2022 | | | | <0.005 | | |
| 1/26/2023 | <0.005 | 0.0025 (J) | 0.53 | | | <0.005 |
| 1/27/2023 | | | | <0.005 | | |
| 2/1/2023 | | | | | <0.005 | |
| Mean | 0.003554 | 0.003535 | 0.397 | 0.004871 | 0.00487 | 0.004305 |
| Std. Dev. | 0.001724 | 0.00124 | 0.06529 | 0.0006328 | 0.0006255 | 0.001573 |
| Upper Lim. | 0.005 | 0.004183 | 0.4311 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.0018 | 0.002886 | 0.3628 | 0.0019 | 0.002 | 0.0021 |

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-25D | MW-26D | MW-27D | MW-28D |
|------------|-------------|-------------|-------------|------------|-------------|------------|
| 3/12/2019 | | | | | | <0.005 |
| 3/13/2019 | | 0.0023 (J) | | <0.005 | <0.005 | |
| 3/14/2019 | <0.005 | | 0.0019 (J) | | | |
| 4/2/2019 | | <0.005 | | | | <0.005 |
| 4/3/2019 | <0.005 | | <0.005 | <0.005 | | |
| 4/4/2019 | | | | | 0.0002 (J) | |
| 9/25/2019 | | <0.005 | | | | |
| 9/26/2019 | | | | <0.005 | <0.005 | <0.005 |
| 9/27/2019 | <0.005 | | 0.0011 (J) | | | |
| 3/2/2020 | | 0.00038 (J) | | | | |
| 3/3/2020 | | | 0.001 (J) | | | |
| 3/4/2020 | 0.00045 (J) | | | 0.0006 (J) | 0.00069 (J) | <0.005 |
| 3/26/2020 | <0.005 | | 0.00075 (J) | | | |
| 3/27/2020 | | <0.005 | | | | <0.005 |
| 3/31/2020 | | | | <0.005 | | |
| 4/2/2020 | | | | | <0.005 | |
| 9/17/2020 | | <0.005 | | <0.005 | | |
| 9/18/2020 | | | <0.005 | | <0.005 | |
| 9/21/2020 | <0.005 | | | | | <0.005 |
| 2/10/2021 | | | | | | 0.0011 (J) |
| 2/11/2021 | | 0.00094 (J) | | | | |
| 2/12/2021 | <0.005 | | <0.005 | | | |
| 2/16/2021 | | | | 0.0008 (J) | 0.001 (J) | |
| 3/12/2021 | | | | | <0.005 | |
| 3/15/2021 | | <0.005 | | | | <0.005 |
| 3/16/2021 | | | <0.005 | | | |
| 3/17/2021 | <0.005 | | | <0.005 | | |
| 8/17/2021 | | <0.005 | | <0.005 | <0.005 | |
| 8/18/2021 | <0.005 | | | | | <0.005 |
| 8/19/2021 | | | <0.005 | | | |
| 2/9/2022 | <0.005 | | <0.005 | 0.0017 (J) | | |
| 2/10/2022 | | <0.005 | | | <0.005 | <0.005 |
| 8/3/2022 | | | | | <0.005 | |
| 8/4/2022 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 |
| 1/26/2023 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 |
| 1/27/2023 | | | | | <0.005 | |
| Mean | 0.004621 | 0.004052 | 0.003729 | 0.004008 | 0.003907 | 0.004675 |
| Std. Dev. | 0.001313 | 0.001767 | 0.001895 | 0.001811 | 0.001984 | 0.001126 |
| Upper Lim. | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.00045 | 0.00094 | 0.001 | 0.0008 | 0.00069 | 0.0011 |

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-29 | MW-5 | MW-6 |
|------------|-------------|------------|------------|
| 3/12/2019 | <0.005 | | |
| 3/13/2019 | | <0.005 | <0.005 |
| 4/2/2019 | <0.005 | | |
| 4/3/2019 | | <0.005 | <0.005 |
| 9/24/2019 | <0.005 | | |
| 9/25/2019 | | <0.005 | |
| 9/26/2019 | | | <0.005 |
| 3/2/2020 | <0.005 | <0.005 | |
| 3/3/2020 | | | <0.005 |
| 3/26/2020 | | <0.005 | |
| 3/27/2020 | | | <0.005 |
| 3/30/2020 | 0.00037 (J) | | |
| 9/16/2020 | <0.005 | | |
| 9/17/2020 | | <0.005 | |
| 9/21/2020 | | | <0.005 |
| 2/15/2021 | <0.005 | | |
| 2/16/2021 | | <0.005 | <0.005 |
| 3/15/2021 | <0.005 | | |
| 3/16/2021 | | <0.005 | <0.005 |
| 8/16/2021 | <0.005 | | |
| 8/17/2021 | | <0.005 | <0.005 |
| 2/9/2022 | | 0.0013 (J) | 0.0034 (J) |
| 2/10/2022 | <0.005 | | |
| 8/3/2022 | <0.005 | <0.005 | <0.005 |
| 1/26/2023 | <0.005 | <0.005 | <0.005 |
| Mean | 0.004614 | 0.004692 | 0.004867 |
| Std. Dev. | 0.001337 | 0.001068 | 0.0004619 |
| Upper Lim. | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.00037 | 0.0013 | 0.0034 |

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|---------|---------|---------|---------|--------|--------|
| 5/20/2016 | | | | | 0.0687 | 0.0808 |
| 5/23/2016 | 0.0877 | 0.0466 | 0.133 | 0.0779 | | |
| 7/12/2016 | 0.0926 | 0.0616 | 0.135 | 0.0697 | 0.0731 | 0.083 |
| 9/1/2016 | 0.0994 | 0.0497 | 0.123 | 0.07 | 0.0747 | 0.0829 |
| 10/20/2016 | | | | | 0.072 | 0.0811 |
| 10/24/2016 | 0.101 | 0.0794 | 0.135 | 0.0882 | | |
| 12/6/2016 | | | | | 0.0752 | 0.0845 |
| 12/7/2016 | 0.107 | 0.1 | 0.13 | 0.0798 | | |
| 1/25/2017 | | | | | 0.0747 | 0.078 |
| 1/26/2017 | 0.0538 | 0.0696 | 0.127 | 0.0738 | | |
| 3/21/2017 | | | | | 0.0722 | 0.0791 |
| 3/22/2017 | 0.0962 | 0.0346 | 0.112 | 0.0755 | | |
| 5/23/2017 | | | | | 0.0794 | 0.0846 |
| 5/24/2017 | 0.0996 | 0.0437 | 0.106 | 0.0627 | | |
| 4/3/2018 | | | | | 0.075 | 0.065 |
| 4/4/2018 | 0.084 | 0.029 | 0.083 | 0.099 | | |
| 6/5/2018 | 0.086 | 0.039 | | 0.13 | 0.071 | |
| 6/6/2018 | | | 0.09 | | | 0.063 |
| 10/2/2018 | 0.076 | | | | 0.078 | 0.061 |
| 10/3/2018 | | 0.033 | 0.087 | | | |
| 10/5/2018 | | | | 0.076 | | |
| 3/12/2019 | | | | | | 0.062 |
| 3/13/2019 | 0.044 | 0.024 | | 0.1 | 0.083 | |
| 3/14/2019 | | | 0.081 | | | |
| 4/2/2019 | | | | | 0.072 | |
| 4/3/2019 | 0.076 | 0.023 | 0.077 | | | 0.066 |
| 4/5/2019 | | | | 0.079 | | |
| 9/24/2019 | | | | | | 0.053 |
| 9/25/2019 | | | | | 0.061 | |
| 9/26/2019 | | | | 0.11 | | |
| 9/27/2019 | 0.078 | 0.033 | 0.096 | | | |
| 3/3/2020 | 0.048 | 0.022 | 0.092 | | | 0.052 |
| 3/4/2020 | | | | 0.1 | 0.068 | |
| 3/26/2020 | | | 0.089 | | | |
| 3/27/2020 | | | | | 0.059 | 0.059 |
| 3/30/2020 | | | | 0.08 | | |
| 3/31/2020 | | 0.026 | | | | |
| 4/1/2020 | 0.058 | | | | | |
| 9/16/2020 | 0.068 | | | | 0.068 | 0.06 |
| 9/18/2020 | | 0.043 | 0.086 | | | |
| 9/21/2020 | | | | 0.052 | | |
| 2/10/2021 | | | | | 0.069 | |
| 2/12/2021 | | 0.039 | 0.09 | | | |
| 2/15/2021 | 0.06 | | | | | |
| 2/16/2021 | | | | | | 0.069 |
| 2/22/2021 | | | | 0.061 | | |
| 3/12/2021 | 0.058 | | | | | |
| 3/15/2021 | | | | | 0.074 | 0.063 |
| 3/16/2021 | | 0.035 | 0.084 | | | |
| 3/17/2021 | | | | 0.056 | | |
| 8/16/2021 | | | | | 0.068 | |
| 8/17/2021 | 0.055 | | | | | |

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|---------|---------|---------|---------|----------|---------|
| 8/18/2021 | | 0.04 | 0.083 | | | 0.062 |
| 8/19/2021 | | | | 0.049 | | |
| 2/9/2022 | 0.042 | 0.042 | 0.075 | | | |
| 2/10/2022 | | | | 0.053 | 0.063 | 0.056 |
| 8/3/2022 | 0.069 | 0.041 | 0.086 | 0.07 | 0.066 | 0.06 |
| 8/11/2022 | | | | | 0.071 | |
| 1/26/2023 | | 0.031 | 0.076 | 0.079 | | |
| 1/27/2023 | 0.041 | | | | 0.065 | |
| 2/1/2023 | | | | | | 0.058 |
| Mean | 0.07306 | 0.04283 | 0.09896 | 0.0779 | 0.07088 | 0.06796 |
| Std. Dev. | 0.02091 | 0.01895 | 0.02104 | 0.0198 | 0.005696 | 0.01102 |
| Upper Lim. | 0.08399 | 0.05051 | 0.123 | 0.08825 | 0.07378 | 0.07372 |
| Lower Lim. | 0.06212 | 0.03278 | 0.083 | 0.06754 | 0.06797 | 0.06219 |

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D |
|------------|---------|---------|----------|---------|--------|---------|
| 5/23/2016 | 0.117 | | | | | |
| 7/12/2016 | 0.13 | | | | | |
| 9/1/2016 | 0.13 | | | | | |
| 10/20/2016 | 0.0806 | | | | | |
| 12/6/2016 | 0.128 | | | | | |
| 1/26/2017 | 0.142 | | | | | |
| 3/22/2017 | 0.122 | | | | | |
| 5/23/2017 | 0.127 | | | | | |
| 4/3/2018 | 0.1 | | | | | |
| 6/6/2018 | 0.11 | | | | | |
| 10/2/2018 | 0.11 | | | | | |
| 3/13/2019 | 0.1 | | 0.087 | 0.053 | | 0.099 |
| 3/14/2019 | | 0.06 | | | 0.44 | |
| 4/2/2019 | | | 0.08 | | | |
| 4/3/2019 | 0.12 | 0.05 | | | 0.38 | 0.12 |
| 4/8/2019 | | | | 0.043 | | |
| 9/25/2019 | | | 0.085 | | | |
| 9/26/2019 | | | | 0.12 | | 0.12 |
| 9/27/2019 | 0.11 | 0.068 | | | 0.39 | |
| 3/2/2020 | | | 0.099 | | | |
| 3/3/2020 | | | | | 0.42 | |
| 3/4/2020 | 0.11 | 0.069 | | 0.081 | | 0.17 |
| 3/26/2020 | | 0.067 | | | 0.45 | |
| 3/27/2020 | | | 0.093 | | | |
| 3/30/2020 | | | | 0.056 | | |
| 3/31/2020 | 0.11 | | | | | 0.11 |
| 9/17/2020 | 0.11 | | 0.096 | | | 0.099 |
| 9/18/2020 | | | | | 0.44 | |
| 9/21/2020 | | 0.056 | | 0.053 | | |
| 2/11/2021 | | | 0.093 | | | |
| 2/12/2021 | | 0.051 | | | 0.46 | |
| 2/16/2021 | 0.11 | | | 0.062 | | 0.093 |
| 3/15/2021 | | | 0.096 | | | |
| 3/16/2021 | 0.11 | | | | 0.51 | |
| 3/17/2021 | | 0.049 | | 0.055 | | 0.094 |
| 8/17/2021 | 0.095 | | 0.089 | | | 0.072 |
| 8/18/2021 | | 0.045 | | | | |
| 8/19/2021 | | | | 0.048 | 0.58 | |
| 2/9/2022 | 0.096 | 0.042 | | | 0.6 | 0.066 |
| 2/10/2022 | | | 0.082 | 0.048 | | |
| 8/3/2022 | | | | 0.053 | | |
| 8/4/2022 | 0.091 | 0.05 | 0.093 | | 0.75 | 0.062 |
| 1/26/2023 | 0.069 | 0.039 | 0.097 | 0.054 | 0.65 | 0.065 |
| Mean | 0.1099 | 0.05383 | 0.09083 | 0.0605 | 0.5058 | 0.0975 |
| Std. Dev. | 0.01686 | 0.01021 | 0.006177 | 0.02098 | 0.1149 | 0.03078 |
| Upper Lim. | 0.1187 | 0.06184 | 0.09568 | 0.081 | 0.596 | 0.1217 |
| Lower Lim. | 0.1011 | 0.04583 | 0.08599 | 0.048 | 0.4157 | 0.07335 |

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-27D | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|------------|--------|--------|---------|----------|----------|----------|
| 3/12/2019 | | 0.82 | 0.089 | | | |
| 3/13/2019 | 1.5 | | | 0.056 | 0.1 | 0.063 |
| 4/2/2019 | | 0.37 | 0.078 | | | |
| 4/3/2019 | | | | 0.049 | 0.09 | 0.058 |
| 4/4/2019 | 1.2 | | | | | |
| 9/24/2019 | | | 0.081 | | | |
| 9/25/2019 | | | | 0.046 | | |
| 9/26/2019 | 0.95 | 0.15 | | | 0.089 | 0.066 |
| 3/2/2020 | | | 0.088 | 0.049 | | |
| 3/3/2020 | | | | | 0.09 | 0.043 |
| 3/4/2020 | 0.95 | 0.77 | | | | |
| 3/26/2020 | | | | 0.046 | | |
| 3/27/2020 | | 0.64 | | | 0.086 | |
| 3/30/2020 | | | 0.08 | | | 0.05 |
| 4/2/2020 | 1 | | | | | |
| 9/16/2020 | | | 0.076 | | | |
| 9/17/2020 | | | | 0.043 | | |
| 9/18/2020 | 1 | | | | | |
| 9/21/2020 | | 0.18 | | | 0.083 | 0.065 |
| 2/10/2021 | | 0.26 | | | | |
| 2/15/2021 | | | 0.081 | | | 0.048 |
| 2/16/2021 | 1 | | | 0.05 | 0.085 | |
| 3/12/2021 | 1.1 | | | | | |
| 3/15/2021 | | 0.45 | 0.078 | | | 0.053 |
| 3/16/2021 | | | | 0.046 | 0.081 | |
| 8/16/2021 | | | 0.074 | | | |
| 8/17/2021 | 1.1 | | | 0.045 | 0.081 | 0.057 |
| 8/18/2021 | | 0.53 | | | | |
| 2/8/2022 | | | | | | 0.053 |
| 2/9/2022 | | | | 0.042 | 0.074 | |
| 2/10/2022 | 0.99 | 0.76 | 0.072 | | | |
| 8/3/2022 | 0.94 | | 0.081 | 0.058 | 0.084 | |
| 8/4/2022 | | 0.7 | | | | 0.064 |
| 1/26/2023 | | 0.8 | 0.076 | 0.05 | 0.079 | 0.044 |
| 1/27/2023 | 0.94 | | | | | |
| Mean | 1.056 | 0.5358 | 0.0795 | 0.04833 | 0.08517 | 0.05533 |
| Std. Dev. | 0.1609 | 0.2486 | 0.00509 | 0.004812 | 0.006645 | 0.008117 |
| Upper Lim. | 1.2 | 0.7309 | 0.08349 | 0.05211 | 0.09038 | 0.0617 |
| Lower Lim. | 0.94 | 0.3408 | 0.07551 | 0.04456 | 0.07995 | 0.04896 |

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-13 | HGWC-7 | HGWC-8 | MW-19 | MW-28D |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 5/20/2016 | | | <0.0005 | <0.003 | | |
| 5/23/2016 | <0.0005 | <0.0005 | | | | |
| 7/12/2016 | <0.0005 | <0.0005 | <0.0005 | <0.003 | | |
| 9/1/2016 | <0.0005 | <0.0005 | <0.0005 | <0.003 | | |
| 10/20/2016 | | | <0.0005 | <0.003 | | |
| 10/24/2016 | <0.0005 | <0.0005 | | | | |
| 12/6/2016 | | | <0.0005 | <0.003 | | |
| 12/7/2016 | <0.0005 | <0.0005 | | | | |
| 1/25/2017 | | | <0.0005 | <0.003 | | |
| 1/26/2017 | <0.0005 | <0.0005 | | | | |
| 3/21/2017 | | | <0.0005 | <0.003 | | |
| 3/22/2017 | 9E-05 (J) | <0.0005 | | | | |
| 5/23/2017 | | | <0.0005 | <0.003 | | |
| 5/24/2017 | <0.0005 | <0.0005 | | | | |
| 4/3/2018 | | | <0.0005 | <0.003 | | |
| 4/4/2018 | <0.0005 | <0.0005 | | | | |
| 3/12/2019 | | | | <0.003 | | <0.0005 |
| 3/13/2019 | 0.0001 (J) | 6.2E-05 (J) | <0.0005 | | | |
| 3/14/2019 | | | | <0.0005 | | |
| 4/2/2019 | | | <0.0005 | | | <0.0005 |
| 4/3/2019 | 0.00017 (J) | | | 7.4E-05 (J) | <0.0005 | |
| 4/5/2019 | | <0.0005 | | | | |
| 9/24/2019 | | | | <0.003 | | |
| 9/25/2019 | | | <0.0005 | | | |
| 9/26/2019 | | 0.00011 (J) | | | | <0.0005 |
| 9/27/2019 | 8.6E-05 (J) | | | | <0.0005 | |
| 3/3/2020 | 0.00012 (J) | | | <0.003 | | |
| 3/4/2020 | | 9.3E-05 (J) | 7.7E-05 (J) | | <0.0005 | 0.00014 (J) |
| 3/26/2020 | | | | | <0.0005 | |
| 3/27/2020 | | | <0.0005 | <0.003 | | <0.0005 |
| 3/30/2020 | | 9.9E-05 (J) | | | | |
| 3/31/2020 | 0.00015 (J) | | | | | |
| 9/16/2020 | | | <0.0005 | 0.0001 (J) | | |
| 9/18/2020 | <0.0005 | | | | | |
| 9/21/2020 | | 0.00011 (J) | | | <0.0005 | <0.0005 |
| 2/10/2021 | | | 8.1E-05 (J) | | | 5.4E-05 (J) |
| 2/12/2021 | <0.0005 | | | | <0.0005 | |
| 2/16/2021 | | | | 7.1E-05 (J) | | |
| 2/22/2021 | | 9.7E-05 (J) | | | | |
| 3/15/2021 | | | 0.00019 (J) | 7.8E-05 (J) | | 4.8E-05 (J) |
| 3/16/2021 | 8.1E-05 (J) | | | | | |
| 3/17/2021 | | 9E-05 (J) | | | <0.0005 | |
| 8/16/2021 | | | <0.0005 | | | |
| 8/18/2021 | <0.0005 | | | 8.7E-05 (J) | 5.8E-05 (J) | <0.0005 |
| 8/19/2021 | | 7.3E-05 (J) | | | | |
| 2/9/2022 | <0.0005 | | | | <0.0005 | |
| 2/10/2022 | | <0.0005 | <0.0005 | 7.1E-05 (J) | | <0.0005 |
| 8/3/2022 | <0.0005 | <0.0005 | <0.0005 | 5.6E-05 (J) | | |
| 8/4/2022 | | | | | <0.0005 | <0.0005 |
| 8/11/2022 | | | <0.0005 | | | |
| 1/26/2023 | <0.0005 | 9.9E-05 (J) | | | <0.0005 | <0.0005 |
| 1/27/2023 | | | <0.0005 | | | |

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-13 | HGWC-7 | HGWC-8 | MW-19 | MW-28D |
|------------|-----------|-----------|-----------|-------------|-----------|-----------|
| 2/1/2023 | | | | 5.6E-05 (J) | | |
| Mean | 0.0003713 | 0.0003254 | 0.0004476 | 0.001885 | 0.0004632 | 0.0003952 |
| Std. Dev. | 0.0001875 | 0.0002069 | 0.0001363 | 0.001456 | 0.0001276 | 0.0001909 |
| Upper Lim. | 0.0005 | 0.0005 | 0.0005 | 0.003 | 0.0005 | 0.0005 |
| Lower Lim. | 0.00012 | 9.7E-05 | 0.00019 | 7.4E-05 | 5.8E-05 | 5.4E-05 |

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-7 |
|------------|-------------|
| 3/13/2019 | <0.0005 |
| 4/3/2019 | 5.1E-05 (J) |
| 9/26/2019 | <0.0005 |
| 3/3/2020 | <0.0005 |
| 3/30/2020 | <0.0005 |
| 9/21/2020 | <0.0005 |
| 2/15/2021 | <0.0005 |
| 3/15/2021 | <0.0005 |
| 8/17/2021 | <0.0005 |
| 2/8/2022 | <0.0005 |
| 8/4/2022 | <0.0005 |
| 1/26/2023 | <0.0005 |
| Mean | 0.0004626 |
| Std. Dev. | 0.0001296 |
| Upper Lim. | 0.0005 |
| Lower Lim. | 5.1E-05 |

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|--------------|-------------|-------------|-------------|-------------|------------|
| 5/20/2016 | | | | <0.0005 | 0.00024 (J) | |
| 5/23/2016 | 0.000115 (J) | <0.0005 | <0.0005 | | | <0.0005 |
| 7/12/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.0002 (J) | <0.0005 |
| 9/1/2016 | 0.0001 (J) | <0.0005 | <0.0005 | <0.0005 | 0.0001 (J) | <0.0005 |
| 10/20/2016 | | | | <0.0005 | 0.0001 (J) | 0.0002 (J) |
| 10/24/2016 | 0.0001 (J) | <0.0005 | <0.0005 | | | |
| 12/6/2016 | | | | 0.0002 (J) | 0.0017 | 0.0001 (J) |
| 12/7/2016 | 0.0001 (J) | 0.0001 (J) | 0.0002 (J) | | | |
| 1/25/2017 | | | | 0.0002 (J) | 0.0002 (J) | |
| 1/26/2017 | <0.0005 | <0.0005 | <0.0005 | | | <0.0005 |
| 3/21/2017 | | | | 0.0002 (J) | 0.0002 (J) | |
| 3/22/2017 | 0.0001 (J) | 0.0001 (J) | 0.0003 (J) | | | 7E-05 (J) |
| 5/23/2017 | | | | 0.0001 (J) | 0.0003 (J) | <0.0005 |
| 5/24/2017 | 0.0002 (J) | <0.0005 | 9E-05 (J) | | | |
| 4/3/2018 | | | | <0.0005 | <0.001 | <0.0005 |
| 4/4/2018 | <0.0005 | <0.0005 | <0.0005 | | | |
| 3/12/2019 | | | | | 0.0002 (J) | |
| 3/13/2019 | <0.0005 | <0.0005 | | <0.0005 | | <0.0005 |
| 3/14/2019 | | | <0.0005 | | | |
| 4/2/2019 | | | | <0.0005 | | |
| 4/3/2019 | 0.0001 (J) | 9.6E-05 (J) | <0.0005 | | 0.00032 (J) | <0.0005 |
| 9/24/2019 | | | | | 0.0002 (J) | |
| 9/25/2019 | | | | <0.0005 | | |
| 9/27/2019 | <0.0005 | <0.0005 | <0.0005 | | | <0.0005 |
| 3/3/2020 | <0.0005 | <0.0005 | 0.00015 (J) | | 0.00017 (J) | |
| 3/4/2020 | | | | <0.0005 | | <0.0005 |
| 3/26/2020 | | | <0.0005 | | | |
| 3/27/2020 | | | | <0.0005 | 0.00014 (J) | |
| 3/31/2020 | | <0.0005 | | | | <0.0005 |
| 4/1/2020 | <0.0005 | | | | | |
| 9/16/2020 | <0.0005 | | | <0.0005 | 0.00023 (J) | |
| 9/17/2020 | | | | | | <0.0005 |
| 9/18/2020 | | <0.0005 | <0.0005 | | | |
| 2/10/2021 | | | | <0.0005 | | |
| 2/12/2021 | | <0.0005 | <0.0005 | | | |
| 2/15/2021 | <0.0005 | | | | | |
| 2/16/2021 | | | | | 0.00037 (J) | <0.0005 |
| 3/12/2021 | <0.0005 | | | | | |
| 3/15/2021 | | | | <0.0005 | 0.00017 (J) | |
| 3/16/2021 | | <0.0005 | <0.0005 | | | <0.0005 |
| 8/16/2021 | | | | <0.0005 | | |
| 8/17/2021 | <0.0005 | | | | | <0.0005 |
| 8/18/2021 | | <0.0005 | <0.0005 | | 0.0002 (J) | |
| 2/9/2022 | <0.0005 | <0.0005 | <0.0005 | | | <0.0005 |
| 2/10/2022 | | | | <0.0005 | 0.00029 (J) | |
| 8/3/2022 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.00017 (J) | |
| 8/4/2022 | | | | | | <0.0005 |
| 8/11/2022 | | | | <0.0005 | | |
| 1/26/2023 | | <0.0005 | <0.0005 | | | <0.0005 |
| 1/27/2023 | <0.0005 | | | 0.00019 (J) | | |
| 2/1/2023 | | | | | 0.00014 (J) | |
| Mean | 0.0003721 | 0.0004427 | 0.00044 | 0.0004268 | 0.0002924 | 0.0004462 |

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Std. Dev. | 0.0001864 | 0.0001439 | 0.0001313 | 0.0001394 | 0.0003358 | 0.0001368 |
| Upper Lim. | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0003 | 0.0005 |
| Lower Lim. | 0.000115 | 0.0001 | 0.0003 | 0.0002 | 0.00017 | 0.0002 |

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 |
|------------|-------------|
| 3/14/2019 | <0.0005 |
| 4/3/2019 | <0.0005 |
| 9/27/2019 | 0.00013 (J) |
| 3/4/2020 | 0.00026 (J) |
| 3/26/2020 | 0.00019 (J) |
| 9/21/2020 | 0.00018 (J) |
| 2/12/2021 | 0.0002 (J) |
| 3/17/2021 | 0.00016 (J) |
| 8/18/2021 | 0.00027 (J) |
| 2/9/2022 | 0.0011 |
| 8/4/2022 | 0.00022 (J) |
| 1/26/2023 | <0.0005 |
| Mean | 0.0003508 |
| Std. Dev. | 0.0002735 |
| Upper Lim. | 0.0003417 |
| Lower Lim. | 0.0001502 |

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|------------|-------------|-------------|-------------|-------------|-------------|
| 5/20/2016 | | | | | <0.005 | <0.005 |
| 5/23/2016 | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 7/12/2016 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 9/1/2016 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 10/20/2016 | | | | | <0.005 | <0.005 |
| 10/24/2016 | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 12/6/2016 | | | | | <0.005 | <0.005 |
| 12/7/2016 | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 1/25/2017 | | | | | <0.005 | <0.005 |
| 1/26/2017 | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 3/21/2017 | | | | | <0.005 | 0.0005 (J) |
| 3/22/2017 | <0.005 | 0.0003 (J) | 0.0004 (J) | 0.0004 (J) | | |
| 5/23/2017 | | | | | <0.005 | <0.005 |
| 5/24/2017 | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 4/3/2018 | | | | | <0.005 | <0.005 |
| 4/4/2018 | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 3/12/2019 | | | | | | <0.005 |
| 3/13/2019 | <0.005 | <0.005 | | <0.005 | <0.005 | |
| 3/14/2019 | | | 0.0025 (J) | | | |
| 4/2/2019 | | | | | <0.005 | |
| 4/3/2019 | 0.02 | <0.005 | <0.005 | | | <0.005 |
| 4/5/2019 | | | | <0.005 | | |
| 9/24/2019 | | | | | | <0.005 |
| 9/25/2019 | | | | | 0.071 | |
| 9/26/2019 | | | | <0.005 | | |
| 9/27/2019 | <0.005 | <0.005 | <0.005 | | | |
| 3/3/2020 | <0.005 | 0.00061 (J) | <0.005 | | | 0.0007 (J) |
| 3/4/2020 | | | | <0.005 | 0.0016 (J) | |
| 3/26/2020 | | | <0.005 | | | |
| 3/27/2020 | | | | | 0.0004 (J) | <0.005 |
| 3/30/2020 | | | | 0.00059 (J) | | |
| 3/31/2020 | | <0.005 | | | | |
| 4/1/2020 | <0.005 | | | | | |
| 9/16/2020 | <0.005 | | | | 0.00074 (J) | 0.0015 (J) |
| 9/18/2020 | | <0.005 | 0.00091 (J) | | | |
| 9/21/2020 | | | | 0.00056 (J) | | |
| 2/10/2021 | | | | | 0.0014 (J) | |
| 2/12/2021 | | <0.005 | <0.005 | | | |
| 2/15/2021 | <0.005 | | | | | |
| 2/16/2021 | | | | | | <0.005 |
| 2/22/2021 | | | | <0.005 | | |
| 3/12/2021 | <0.005 | | | | | |
| 3/15/2021 | | | | | 0.0021 (J) | 0.00082 (J) |
| 3/16/2021 | | <0.005 | <0.005 | | | |
| 3/17/2021 | | | | <0.005 | | |
| 8/16/2021 | | | | | <0.005 | |
| 8/17/2021 | <0.005 | | | | | |
| 8/18/2021 | | <0.005 | <0.005 | | | <0.005 |
| 8/19/2021 | | | | <0.005 | | |
| 2/9/2022 | 0.0011 (J) | <0.005 | <0.005 | | | |
| 2/10/2022 | | | | <0.005 | <0.005 | <0.005 |
| 8/3/2022 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|------------|------------|----------|----------|------------|----------|
| 8/11/2022 | | | | | <0.005 | |
| 1/26/2023 | | 0.0012 (J) | <0.005 | <0.005 | | |
| 1/27/2023 | 0.0012 (J) | | | | 0.0014 (J) | |
| 2/1/2023 | | | | | | <0.005 |
| Mean | 0.005348 | 0.004386 | 0.004467 | 0.00436 | 0.006984 | 0.004215 |
| Std. Dev. | 0.00355 | 0.001547 | 0.001382 | 0.001608 | 0.0144 | 0.001666 |
| Upper Lim. | 0.02 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.0012 | 0.0012 | 0.0025 | 0.00059 | 0.0021 | 0.0015 |

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 5/23/2016 | <0.005 | | | | | |
| 7/12/2016 | <0.005 | | | | | |
| 9/1/2016 | <0.005 | | | | | |
| 10/20/2016 | <0.005 | | | | | |
| 12/6/2016 | <0.005 | | | | | |
| 1/26/2017 | <0.005 | | | | | |
| 3/22/2017 | <0.005 | | | | | |
| 5/23/2017 | <0.005 | | | | | |
| 4/3/2018 | <0.005 | | | | | |
| 3/13/2019 | <0.005 | | <0.005 | <0.005 | | <0.005 |
| 3/14/2019 | | <0.005 | | | <0.005 | |
| 4/2/2019 | | | <0.005 | | | |
| 4/3/2019 | <0.005 | <0.005 | | | <0.005 | <0.005 |
| 4/8/2019 | | | | <0.005 | | |
| 9/25/2019 | | | <0.005 | | | |
| 9/26/2019 | | | | 0.00042 (J) | | 0.00076 (J) |
| 9/27/2019 | <0.005 | <0.005 | | | <0.005 | |
| 3/2/2020 | | | 0.00071 (J) | | | |
| 3/3/2020 | | | | | <0.005 | |
| 3/4/2020 | <0.005 | 0.00066 (J) | | <0.005 | | 0.0028 (J) |
| 3/26/2020 | | 0.00047 (J) | | | 0.00061 (J) | |
| 3/27/2020 | | | 0.00051 (J) | | | |
| 3/30/2020 | | | | <0.005 | | |
| 3/31/2020 | 0.00052 (J) | | | | | 0.001 (J) |
| 9/17/2020 | <0.005 | | <0.005 | | | <0.005 |
| 9/18/2020 | | | | | <0.005 | |
| 9/21/2020 | | 0.0014 (J) | | <0.005 | | |
| 2/11/2021 | | | <0.005 | | | |
| 2/12/2021 | | 0.00059 (J) | | | <0.005 | |
| 2/16/2021 | 0.00067 (J) | | | <0.005 | | 0.001 (J) |
| 3/15/2021 | | | 0.00068 (J) | | | |
| 3/16/2021 | <0.005 | | | | <0.005 | |
| 3/17/2021 | | 0.0022 (J) | | 0.0017 (J) | | 0.0015 (J) |
| 8/17/2021 | <0.005 | | <0.005 | | | <0.005 |
| 8/18/2021 | | <0.005 | | | | |
| 8/19/2021 | | | | <0.005 | <0.005 | |
| 2/9/2022 | 0.0011 (J) | <0.005 | | | <0.005 | <0.005 |
| 2/10/2022 | | | <0.005 | <0.005 | | |
| 8/3/2022 | | | | <0.005 | | |
| 8/4/2022 | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 |
| 1/26/2023 | 0.0013 (J) | 0.0011 (J) | <0.005 | <0.005 | 0.0012 (J) | <0.005 |
| Mean | 0.004219 | 0.003035 | 0.003908 | 0.004343 | 0.004317 | 0.003505 |
| Std. Dev. | 0.001657 | 0.002099 | 0.001975 | 0.001558 | 0.001599 | 0.001913 |
| Upper Lim. | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.0013 | 0.00059 | 0.00068 | 0.0017 | 0.0012 | 0.001 |

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-27D | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|------------|-------------|-------------|-----------|------------|-------------|------------|
| 3/12/2019 | | <0.005 | <0.005 | | | |
| 3/13/2019 | <0.005 | | | 0.003 (J) | <0.005 | <0.005 |
| 4/2/2019 | | <0.005 | <0.005 | | | |
| 4/3/2019 | | | | 0.003 (J) | <0.005 | 0.0023 (J) |
| 4/4/2019 | <0.005 | | | | | |
| 9/24/2019 | | | <0.005 | | | |
| 9/25/2019 | | | | 0.0052 (J) | | |
| 9/26/2019 | <0.005 | 0.00081 (J) | | | <0.005 | 0.0013 (J) |
| 3/2/2020 | | | <0.005 | 0.0042 (J) | | |
| 3/3/2020 | | | | | 0.00044 (J) | 0.0015 (J) |
| 3/4/2020 | <0.005 | 0.0027 (J) | | | | |
| 3/26/2020 | | | | 0.0044 (J) | | |
| 3/27/2020 | | <0.005 | | | 0.00059 (J) | |
| 3/30/2020 | | | 0.001 (J) | | | 0.0021 (J) |
| 4/2/2020 | <0.005 | | | | | |
| 9/16/2020 | | | <0.005 | | | |
| 9/17/2020 | | | | 0.0021 (J) | | |
| 9/18/2020 | 0.0007 (J) | | | | | |
| 9/21/2020 | | 0.00085 (J) | | | <0.005 | 0.0017 (J) |
| 2/10/2021 | | 0.0014 (J) | | | | |
| 2/15/2021 | | | <0.005 | | | 0.0015 (J) |
| 2/16/2021 | 0.00082 (J) | | | 0.0032 (J) | <0.005 | |
| 3/12/2021 | <0.005 | | | | | |
| 3/15/2021 | | 0.00078 (J) | <0.005 | | | 0.0018 (J) |
| 3/16/2021 | | | | 0.0024 (J) | <0.005 | |
| 8/16/2021 | | | <0.005 | | | |
| 8/17/2021 | <0.005 | | | 0.0018 (J) | <0.005 | <0.005 |
| 8/18/2021 | | <0.005 | | | | |
| 2/8/2022 | | | | | | 0.0016 (J) |
| 2/9/2022 | | | | 0.0031 (J) | <0.005 | |
| 2/10/2022 | <0.005 | 0.0011 (J) | <0.005 | | | |
| 8/3/2022 | <0.005 | | <0.005 | 0.0015 (J) | <0.005 | |
| 8/4/2022 | | <0.005 | | | | 0.002 (J) |
| 1/26/2023 | | <0.005 | <0.005 | 0.0032 (J) | 0.0014 (J) | 0.0017 (J) |
| 1/27/2023 | <0.005 | | | | | |
| Mean | 0.004293 | 0.003137 | 0.004667 | 0.003092 | 0.003952 | 0.002292 |
| Std. Dev. | 0.001651 | 0.002009 | 0.001155 | 0.001091 | 0.001908 | 0.001295 |
| Upper Lim. | 0.005 | 0.005 | 0.005 | 0.003948 | 0.005 | 0.005 |
| Lower Lim. | 0.00082 | 0.00081 | 0.001 | 0.002236 | 0.00059 | 0.0015 |

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|------------|-------------|------------|-------------|-------------|-------------|
| 5/20/2016 | | | | | <0.005 | 0.00207 (J) |
| 5/23/2016 | <0.005 | <0.005 | <0.005 | 0.00361 (J) | | |
| 7/12/2016 | 0.0006 (J) | 0.0021 (J) | 0.0018 (J) | 0.0032 (J) | 0.0003 (J) | 0.0019 (J) |
| 9/1/2016 | 0.0007 (J) | 0.0025 (J) | 0.0016 (J) | 0.0033 (J) | <0.005 | 0.0023 (J) |
| 10/20/2016 | | | | | 0.0008 (J) | 0.002 (J) |
| 10/24/2016 | 0.0009 (J) | 0.0032 (J) | 0.0017 (J) | 0.004 (J) | | |
| 12/6/2016 | | | | | 0.0009 (J) | 0.0026 (J) |
| 12/7/2016 | 0.0012 (J) | 0.003 (J) | 0.0021 (J) | 0.0034 (J) | | |
| 1/25/2017 | | | | | 0.0005 (J) | 0.002 (J) |
| 1/26/2017 | <0.005 | 0.0014 (J) | 0.0016 (J) | 0.0024 (J) | | |
| 3/21/2017 | | | | | 0.0005 (J) | 0.0023 (J) |
| 3/22/2017 | 0.0006 (J) | 0.0014 (J) | 0.0018 (J) | 0.0026 (J) | | |
| 5/23/2017 | | | | | 0.0005 (J) | 0.0023 (J) |
| 5/24/2017 | 0.0006 (J) | 0.0008 (J) | 0.0015 (J) | 0.0022 (J) | | |
| 4/3/2018 | | | | | <0.005 | <0.005 |
| 4/4/2018 | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 3/12/2019 | | | | | | 0.002 (J) |
| 3/13/2019 | <0.005 | 0.00098 (J) | | 0.0022 (J) | 0.00067 (J) | |
| 3/14/2019 | | | 0.0011 (J) | | | |
| 4/2/2019 | | | | | 0.00069 (J) | |
| 4/3/2019 | <0.005 | 0.0018 (J) | 0.0011 (J) | | | 0.0019 (J) |
| 4/5/2019 | | | | 0.0017 (J) | | |
| 9/24/2019 | | | | | | 0.0015 (J) |
| 9/25/2019 | | | | | 0.0026 (J) | |
| 9/26/2019 | | | | 0.0042 (J) | | |
| 9/27/2019 | <0.005 | 0.00071 (J) | 0.0012 (J) | | | |
| 3/3/2020 | <0.005 | 0.00087 (J) | 0.0013 (J) | | | 0.002 (J) |
| 3/4/2020 | | | | 0.0066 | 0.0011 (J) | |
| 3/26/2020 | | | 0.0012 (J) | | | |
| 3/27/2020 | | | | | 0.00074 (J) | 0.0018 (J) |
| 3/30/2020 | | | | 0.0053 | | |
| 3/31/2020 | | 0.0014 (J) | | | | |
| 4/1/2020 | <0.005 | | | | | |
| 9/16/2020 | <0.005 | | | | 0.00065 (J) | 0.0019 (J) |
| 9/18/2020 | | <0.005 | 0.0014 (J) | | | |
| 9/21/2020 | | | | 0.0032 (J) | | |
| 2/10/2021 | | | | | 0.00081 (J) | |
| 2/12/2021 | | <0.005 | 0.0012 (J) | | | |
| 2/15/2021 | <0.005 | | | | | |
| 2/16/2021 | | | | | | 0.002 (J) |
| 2/22/2021 | | | | 0.003 (J) | | |
| 3/12/2021 | <0.005 | | | | | |
| 3/15/2021 | | | | | 0.0014 (J) | 0.0019 (J) |
| 3/16/2021 | | <0.005 | 0.0012 (J) | | | |
| 3/17/2021 | | | | 0.0029 (J) | | |
| 8/16/2021 | | | | | 0.0012 (J) | |
| 8/17/2021 | <0.005 | | | | | |
| 8/18/2021 | | <0.005 | 0.0012 (J) | | | 0.002 (J) |
| 8/19/2021 | | | | 0.0024 (J) | | |
| 2/9/2022 | <0.005 | <0.005 | 0.0013 (J) | | | |
| 2/10/2022 | | | | 0.0026 (J) | 0.0011 (J) | 0.0021 (J) |
| 8/3/2022 | <0.005 | <0.005 | 0.0012 (J) | 0.0041 (J) | 0.0015 (J) | 0.0024 (J) |

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|----------|----------|------------|----------|-------------|-----------|
| 8/11/2022 | | | | | 0.0018 (J) | |
| 1/26/2023 | | <0.005 | 0.0012 (J) | 0.012 | | |
| 1/27/2023 | <0.005 | | | | 0.00067 (J) | |
| 2/1/2023 | | | | | | <0.005 |
| Mean | 0.00379 | 0.003103 | 0.00151 | 0.003686 | 0.001179 | 0.002094 |
| Std. Dev. | 0.001963 | 0.001799 | 0.0004265 | 0.002213 | 0.0007416 | 0.0002693 |
| Upper Lim. | 0.005 | 0.005 | 0.0018 | 0.004201 | 0.00147 | 0.002242 |
| Lower Lim. | 0.0009 | 0.0014 | 0.0012 | 0.002611 | 0.0007471 | 0.001945 |

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | MW-19 | MW-20 | MW-24D | MW-26D | MW-27D |
|------------|-------------|----------|------------|-------------|-------------|-------------|
| 5/23/2016 | <0.005 | | | | | |
| 7/12/2016 | 0.0006 (J) | | | | | |
| 9/1/2016 | 0.0007 (J) | | | | | |
| 10/20/2016 | 0.002 (J) | | | | | |
| 12/6/2016 | 0.0011 (J) | | | | | |
| 1/26/2017 | 0.0006 (J) | | | | | |
| 3/22/2017 | 0.0005 (J) | | | | | |
| 5/23/2017 | 0.0006 (J) | | | | | |
| 4/3/2018 | <0.005 | | | | | |
| 3/13/2019 | 0.00065 (J) | | 0.0011 (J) | <0.005 | <0.005 | <0.005 |
| 3/14/2019 | | 0.025 | | | | |
| 4/2/2019 | | | <0.005 | | | |
| 4/3/2019 | 0.00069 (J) | 0.036 | | | <0.005 | |
| 4/4/2019 | | | | | | 9.1E-05 (J) |
| 4/8/2019 | | | | 0.00025 (J) | | |
| 9/25/2019 | | | <0.005 | | | |
| 9/26/2019 | | | | 0.0011 (J) | 0.00053 (J) | <0.005 |
| 9/27/2019 | 0.00057 (J) | 0.033 | | | | |
| 3/2/2020 | | | <0.005 | | | |
| 3/4/2020 | 0.00053 (J) | 0.048 | | 0.00056 (J) | <0.005 | 0.00045 (J) |
| 3/26/2020 | | 0.045 | | | | |
| 3/27/2020 | | | <0.005 | | | |
| 3/30/2020 | | | | <0.005 | | |
| 3/31/2020 | 0.00051 (J) | | | | 0.0003 (J) | |
| 4/2/2020 | | | | | | <0.005 |
| 9/17/2020 | 0.0007 (J) | | <0.005 | | <0.005 | |
| 9/18/2020 | | | | | | <0.005 |
| 9/21/2020 | | 0.032 | | <0.005 | | |
| 2/11/2021 | | | <0.005 | | | |
| 2/12/2021 | | 0.037 | | | | |
| 2/16/2021 | 0.00061 (J) | | | <0.005 | 0.00045 (J) | 0.0004 (J) |
| 3/12/2021 | | | | | | <0.005 |
| 3/15/2021 | | | <0.005 | | | |
| 3/16/2021 | 0.00069 (J) | | | | | |
| 3/17/2021 | | 0.037 | | <0.005 | 0.00044 (J) | |
| 8/17/2021 | 0.00045 (J) | | <0.005 | | 0.00045 (J) | <0.005 |
| 8/18/2021 | | 0.039 | | | | |
| 8/19/2021 | | | | <0.005 | | |
| 2/9/2022 | 0.00051 (J) | 0.03 | | | 0.00059 (J) | |
| 2/10/2022 | | | <0.005 | <0.005 | | <0.005 |
| 8/3/2022 | | | | <0.005 | | <0.005 |
| 8/4/2022 | 0.00046 (J) | 0.043 | <0.005 | | 0.00048 (J) | |
| 1/26/2023 | 0.00068 (J) | 0.022 | <0.005 | <0.005 | 0.00051 (J) | |
| 1/27/2023 | | | | | | <0.005 |
| Mean | 0.0008643 | 0.03558 | 0.004675 | 0.003909 | 0.001979 | 0.003828 |
| Std. Dev. | 0.0006357 | 0.007751 | 0.001126 | 0.001982 | 0.002232 | 0.002121 |
| Upper Lim. | 0.0007 | 0.04167 | 0.005 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.00051 | 0.0295 | 0.0011 | 0.00056 | 0.00044 | 0.0004 |

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-6 |
|------------|-------------|-------------|-------------|
| 3/12/2019 | <0.005 | 0.00057 (J) | |
| 3/13/2019 | | | 0.00055 (J) |
| 4/2/2019 | <0.005 | 0.00084 (J) | |
| 4/3/2019 | | | <0.005 |
| 9/24/2019 | | 0.0015 (J) | |
| 9/26/2019 | <0.005 | | 0.00036 (J) |
| 3/2/2020 | | 0.00067 (J) | |
| 3/3/2020 | | | 0.00094 (J) |
| 3/4/2020 | 0.00093 (J) | | |
| 3/27/2020 | <0.005 | | 0.00059 (J) |
| 3/30/2020 | | 0.00063 (J) | |
| 9/16/2020 | | 0.0013 (J) | |
| 9/21/2020 | <0.005 | | 0.00041 (J) |
| 2/10/2021 | <0.005 | | |
| 2/15/2021 | | 0.00097 (J) | |
| 2/16/2021 | | | 0.00045 (J) |
| 3/15/2021 | <0.005 | 0.0011 (J) | |
| 3/16/2021 | | | 0.00042 (J) |
| 8/16/2021 | | 0.0014 (J) | |
| 8/17/2021 | | | <0.005 |
| 8/18/2021 | <0.005 | | |
| 2/9/2022 | | | 0.00059 (J) |
| 2/10/2022 | <0.005 | 0.00089 (J) | |
| 8/3/2022 | | 0.0012 (J) | 0.00041 (J) |
| 8/4/2022 | <0.005 | | |
| 1/26/2023 | <0.005 | 0.00056 (J) | 0.00044 (J) |
| Mean | 0.004661 | 0.0009692 | 0.001263 |
| Std. Dev. | 0.001175 | 0.0003305 | 0.001752 |
| Upper Lim. | 0.005 | 0.001228 | 0.005 |
| Lower Lim. | 0.00093 | 0.0007098 | 0.00041 |

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 5/20/2016 | | | | | 0.62 (U) | 0.56 (U) |
| 5/23/2016 | 0.419 (U) | 0.509 (U) | 1.12 | 0.625 (U) | | |
| 7/12/2016 | 0.855 | 0.784 (U) | 1.61 | 0.478 (U) | 0.283 (U) | 0.636 (U) |
| 9/1/2016 | 0.844 (U) | 0.261 (U) | 1.23 | 0.595 (U) | 0.703 (U) | 0.818 (U) |
| 10/20/2016 | | | | | 1.97 | 1.04 (U) |
| 10/24/2016 | 0.917 (U) | 1.42 | 1.98 | 1.54 | | |
| 12/6/2016 | | | | | 2 | 0.771 (U) |
| 12/7/2016 | 0.558 (U) | 0.781 (U) | 0.319 (U) | 0.657 (U) | | |
| 1/25/2017 | | | | | 1.06 (U) | 0.859 (U) |
| 1/26/2017 | 0.922 (U) | 0.842 (U) | 0.54 (U) | 1.22 | | |
| 3/21/2017 | | | | | 0.668 (U) | 0.851 (U) |
| 3/22/2017 | 0.751 (U) | 0.318 (U) | 0.635 (U) | 0.285 (U) | | |
| 5/23/2017 | | | | | 0.621 (U) | 0.705 (U) |
| 5/24/2017 | 0.725 (U) | 0.687 (U) | 1.01 | 0.655 (U) | | |
| 4/3/2018 | | | | | 0.538 (U) | 0.311 (U) |
| 4/4/2018 | 0.715 (U) | 1.5 | 0.956 | 0.882 (U) | | |
| 6/5/2018 | 0.718 (U) | 0.549 (U) | | 1.1 (U) | 0.985 (U) | |
| 6/6/2018 | | | 0.424 (U) | | | 0.896 (U) |
| 10/2/2018 | 0.948 | | | | 0.837 (U) | 1.21 |
| 10/3/2018 | | 1.48 | 0.57 (U) | | | |
| 10/5/2018 | | | | 0.558 (U) | | |
| 3/12/2019 | | | | | | 0.544 (U) |
| 3/13/2019 | 1.19 (U) | 0.584 (U) | | 0.39 (U) | 0.403 (U) | |
| 3/14/2019 | | | 0.992 (U) | | | |
| 4/2/2019 | | | | | 0.865 (U) | |
| 4/3/2019 | 1.82 (U) | 0.36 (U) | 0.734 (U) | | | 0.885 (U) |
| 4/5/2019 | | | | 0.422 (U) | | |
| 9/24/2019 | | | | | | 1.3 |
| 9/25/2019 | | | | | 0.884 (U) | |
| 9/26/2019 | | | | 0.939 (U) | | |
| 9/27/2019 | 1.16 (U) | 1.78 | 0.958 (U) | | | |
| 3/3/2020 | 0.667 (U) | 0.716 (U) | 0.971 (U) | | | 0.835 (U) |
| 3/4/2020 | | | | 0.708 (U) | 0.624 (U) | |
| 3/26/2020 | | | 0.209 (U) | | | |
| 3/27/2020 | | | | | 0.485 (U) | 1.04 (U) |
| 3/30/2020 | | | | 0.602 (U) | | |
| 3/31/2020 | | 1.3 (U) | | | | |
| 4/1/2020 | 0.235 (U) | | | | | |
| 9/16/2020 | 0 (U) | | | | 0.135 (U) | 0.526 (U) |
| 9/18/2020 | | 1.24 (U) | 0.916 (U) | | | |
| 9/21/2020 | | | | 1.53 | | |
| 2/10/2021 | | | | | 0.281 (U) | |
| 2/12/2021 | | 1.1 | 0.236 (U) | | | |
| 2/15/2021 | 1.91 | | | | | |
| 2/16/2021 | | | | | | 0.764 (U) |
| 2/22/2021 | | | | 1.02 | | |
| 3/12/2021 | 1.12 (U) | | | | | |
| 3/15/2021 | | | | | 0.666 (U) | 1.3 (U) |
| 3/16/2021 | | 1.71 | 0.245 (U) | | | |
| 3/17/2021 | | | | 1.45 (U) | | |
| 8/16/2021 | | | | | 0.143 (U) | |
| 8/17/2021 | 0.595 (U) | | | | | |

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 8/18/2021 | | 0.919 (U) | 0.919 (U) | | | 1.02 (U) |
| 8/19/2021 | | | | 0.764 (U) | | |
| 2/9/2022 | 0.49 (U) | 0.444 (U) | 0.564 (U) | | | |
| 2/10/2022 | | | | 0.442 (U) | 0.175 (U) | 0.945 (U) |
| 8/3/2022 | 0.454 (U) | 0.823 (U) | 0.418 (U) | 0.54 (U) | 0.42 (U) | 0.455 (U) |
| 8/11/2022 | | | | | 0.461 (U) | |
| 1/26/2023 | | 0.441 (U) | 0.877 | 0.719 | | |
| 1/27/2023 | 1.2 | | | | 0.45 (U) | |
| 2/1/2023 | | | | | | 0.241 (U) |
| Mean | 0.8353 | 0.8934 | 0.8014 | 0.7879 | 0.6782 | 0.8049 |
| Std. Dev. | 0.4423 | 0.4603 | 0.4385 | 0.3658 | 0.4762 | 0.2847 |
| Upper Lim. | 1.067 | 1.134 | 1.031 | 0.9792 | 0.8409 | 0.9538 |
| Lower Lim. | 0.604 | 0.6526 | 0.5721 | 0.5965 | 0.4167 | 0.656 |

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D |
|------------|-----------|-----------|-----------|------------|-----------|------------|
| 5/23/2016 | 0.826 (U) | | | | | |
| 7/12/2016 | 0.511 (U) | | | | | |
| 9/1/2016 | 0.762 (U) | | | | | |
| 10/20/2016 | 1.17 | | | | | |
| 12/6/2016 | 0.126 (U) | | | | | |
| 1/26/2017 | 0.515 (U) | | | | | |
| 3/22/2017 | 0.451 (U) | | | | | |
| 5/23/2017 | 0.924 (U) | | | | | |
| 4/3/2018 | 0.732 (U) | | | | | |
| 6/6/2018 | 0.813 (U) | | | | | |
| 10/2/2018 | 0.61 (U) | | | | | |
| 3/13/2019 | 1 (U) | | 0.538 (U) | 0.311 (U) | | 0.627 (U) |
| 3/14/2019 | | 0.347 (U) | | | 1.28 (U) | |
| 4/2/2019 | | | 1.02 (U) | | | |
| 4/3/2019 | 0.156 (U) | 0.884 (U) | | | 0.662 (U) | 0.205 (U) |
| 4/8/2019 | | | | 0.573 (U) | | |
| 9/25/2019 | | | 1.35 (U) | | | |
| 9/26/2019 | | | | 0.878 (U) | | 0.912 (U) |
| 9/27/2019 | 0.428 (U) | 0.534 (U) | | | 0.945 (U) | |
| 3/2/2020 | | | 0.653 (U) | | | |
| 3/3/2020 | | | | | 1.36 | |
| 3/4/2020 | 1.03 | 1.04 | | 0.333 (U) | | 1.27 (U) |
| 3/26/2020 | | 1.1 (U) | | | 0.793 (U) | |
| 3/27/2020 | | | 0.1 (U) | | | |
| 3/30/2020 | | | | 0.107 (U) | | |
| 3/31/2020 | 1.2 (U) | | | | | 1.65 |
| 9/17/2020 | 1.38 (U) | | 0.469 (U) | | | 0.42 (U) |
| 9/18/2020 | | | | | 1.17 (U) | |
| 9/21/2020 | | 1.36 (U) | | 1.23 (U) | | |
| 2/11/2021 | | | 0.334 (U) | | | |
| 2/12/2021 | | 0.764 (U) | | | 1.17 | |
| 2/16/2021 | 1.17 (U) | | | 0.156 (U) | | 0.505 (U) |
| 3/15/2021 | | | 1.24 (U) | | | |
| 3/16/2021 | 0.446 (U) | | | | 0.742 (U) | |
| 3/17/2021 | | 0.466 (U) | | 0.174 (U) | | 0.165 (U) |
| 8/17/2021 | 0.771 (U) | | 0.709 (U) | | | 0.0468 (U) |
| 8/18/2021 | | 0.642 (U) | | | | |
| 8/19/2021 | | | | 0.227 (U) | 0.935 (U) | |
| 2/9/2022 | 0.198 (U) | 0.245 (U) | | | 0.754 (U) | 0.0677 (U) |
| 2/10/2022 | | | 0.32 (U) | 0.178 (U) | | |
| 8/3/2022 | | | | 0.263 (U) | | |
| 8/4/2022 | 0.597 (U) | 0.509 (U) | 1.05 (U) | | 1.65 | 0.0273 (U) |
| 1/26/2023 | 0.516 (U) | 0.333 (U) | 0.561 (U) | 0.0906 (U) | 1.1 | 0.386 (U) |
| Mean | 0.7101 | 0.6853 | 0.6953 | 0.3767 | 1.047 | 0.5235 |
| Std. Dev. | 0.3464 | 0.3484 | 0.3906 | 0.3495 | 0.296 | 0.516 |
| Upper Lim. | 0.8913 | 0.9587 | 1.002 | 0.5788 | 1.279 | 0.9284 |
| Lower Lim. | 0.5289 | 0.412 | 0.3888 | 0.1374 | 0.8145 | 0.1186 |

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-27D | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 3/12/2019 | | 0.926 (U) | 1.37 | | | |
| 3/13/2019 | 1.81 | | | 0.621 (U) | 2.07 | 1.23 |
| 4/2/2019 | | 0.479 (U) | 0.62 (U) | | | |
| 4/3/2019 | | | | 0.932 (U) | 0.872 (U) | 1.05 (U) |
| 4/4/2019 | 1.33 | | | | | |
| 9/24/2019 | | | 0.675 (U) | | | |
| 9/25/2019 | | | | 0.798 (U) | | |
| 9/26/2019 | 0.974 (U) | 0.997 (U) | | | 0.745 (U) | 0.947 (U) |
| 3/2/2020 | | | 0.413 (U) | 0.964 (U) | | |
| 3/3/2020 | | | | | 0.757 (U) | 1.15 |
| 3/4/2020 | 1.12 | 1.31 | | | | |
| 3/26/2020 | | | | 1.1 | | |
| 3/27/2020 | | 1.59 | | | 0.758 (U) | |
| 3/30/2020 | | | 0.885 (U) | | | 0.83 (U) |
| 4/2/2020 | 2.48 | | | | | |
| 9/16/2020 | | | 0.193 (U) | | | |
| 9/17/2020 | | | | 0.618 (U) | | |
| 9/18/2020 | 1.13 (U) | | | | | |
| 9/21/2020 | | 1.39 (U) | | | 0.796 (U) | 1.55 (U) |
| 2/10/2021 | | 0.201 (U) | | | | |
| 2/15/2021 | | | 1.17 (U) | | | 0.892 (U) |
| 2/16/2021 | 1.21 | | | 0.466 (U) | 0.198 (U) | |
| 3/12/2021 | 0.649 (U) | | | | | |
| 3/15/2021 | | 0.564 (U) | 0.436 (U) | | | 0.386 (U) |
| 3/16/2021 | | | | 1.22 | 0.727 (U) | |
| 8/16/2021 | | | 0.208 (U) | | | |
| 8/17/2021 | 1.06 (U) | | | 0.304 (U) | 0.557 (U) | 0.183 (U) |
| 8/18/2021 | | 0.876 (U) | | | | |
| 2/8/2022 | | | | | | 0.417 (U) |
| 2/9/2022 | | | | 0.567 (U) | 0.619 (U) | |
| 2/10/2022 | 0.809 (U) | 1.96 (U) | 0.594 (U) | | | |
| 8/3/2022 | 0.685 (U) | | 0.581 (U) | 0.63 (U) | 0.543 (U) | |
| 8/4/2022 | | 0.84 (U) | | | | 1.18 (U) |
| 1/26/2023 | | 0.821 | 0.793 (U) | 0.909 | 0.493 (U) | 0.318 (U) |
| 1/27/2023 | 1.1 | | | | | |
| Mean | 1.196 | 0.9962 | 0.6615 | 0.7608 | 0.7613 | 0.8444 |
| Std. Dev. | 0.5082 | 0.4951 | 0.354 | 0.2714 | 0.4499 | 0.428 |
| Upper Lim. | 1.544 | 1.385 | 0.9393 | 0.9737 | 1.015 | 1.18 |
| Lower Lim. | 0.8213 | 0.6077 | 0.3837 | 0.5478 | 0.4421 | 0.5086 |

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|------------|-----------|-----------|------------|------------|--------|
| 5/20/2016 | | | | | 0.0828 (J) | 0.499 |
| 5/23/2016 | 0.0394 (J) | 0.203 (J) | 0.212 (J) | 0.2587 (J) | | |
| 7/12/2016 | 0.15 (J) | 0.44 | 0.31 | 0.53 | 0.2 (J) | 0.67 |
| 9/1/2016 | 0.5 | 0.67 | 0.62 | 0.74 | 0.51 | 0.94 |
| 10/20/2016 | | | | | 0.4 | 0.56 |
| 10/24/2016 | 0.06 (J) | 0.26 (J) | 0.19 (J) | 0.31 | | |
| 12/6/2016 | | | | | 0.26 (J) | 0.76 |
| 12/7/2016 | 0.44 | 0.55 | 0.73 | 1 | | |
| 1/25/2017 | | | | | 0.24 (J) | 1.1 |
| 1/26/2017 | 0.29 (J) | 0.27 (J) | 0.12 (J) | 0.68 | | |
| 3/21/2017 | | | | | 0.13 (J) | 0.46 |
| 3/22/2017 | 0.34 | 0.66 | 0.44 | 0.76 | | |
| 5/23/2017 | | | | | 0.11 (J) | 0.65 |
| 5/24/2017 | 0.13 (J) | 0.35 | 0.34 | 0.54 | | |
| 10/3/2017 | 0.46 | 0.56 | 0.58 | 0.83 | 0.17 (J) | 0.66 |
| 4/3/2018 | | | | | <0.3 | 0.39 |
| 4/4/2018 | <0.1 | 0.39 | <0.3 | 0.65 | | |
| 6/5/2018 | <0.1 | 0.24 (J) | | 0.47 | 0.099 (J) | |
| 6/6/2018 | | | 0.21 (J) | | | 0.46 |
| 10/2/2018 | 0.17 (J) | | | | <0.3 | 0.51 |
| 10/3/2018 | | 0.31 | 0.15 (J) | | | |
| 10/5/2018 | | | | 0.77 | | |
| 3/12/2019 | | | | | | 0.58 |
| 3/13/2019 | 0.17 (J) | 0.51 | | 0.78 | 0.12 (J) | |
| 3/14/2019 | | | 1.1 | | | |
| 4/2/2019 | | | | | 0.097 (J) | |
| 4/3/2019 | 0.082 (J) | 0.43 | 0.3 (J) | | | 0.63 |
| 4/5/2019 | | | | 0.83 | | |
| 9/24/2019 | | | | | | 0.49 |
| 9/25/2019 | | | | | 0.1 (J) | |
| 9/26/2019 | | | | 0.64 | | |
| 9/27/2019 | 0.17 (J) | 0.42 | 0.26 (J) | | | |
| 3/3/2020 | 0.11 (J) | 0.24 (J) | 0.21 (J) | | | 0.45 |
| 3/4/2020 | | | | 0.37 | 0.077 (J) | |
| 3/26/2020 | | | 0.17 (J) | | | |
| 3/27/2020 | | | | | 0.059 (J) | 0.46 |
| 3/30/2020 | | | | 0.44 | | |
| 3/31/2020 | | 0.19 (J) | | | | |
| 4/1/2020 | 0.12 (J) | | | | | |
| 6/16/2020 | | | | | | 0.45 |
| 6/17/2020 | | | | | 0.077 (J) | |
| 9/16/2020 | <0.1 | | | | 0.081 (J) | 0.53 |
| 9/18/2020 | | 0.15 | 0.15 | | | |
| 9/21/2020 | | | | 0.44 | | |
| 2/10/2021 | | | | | 0.085 (J) | |
| 2/12/2021 | | 0.17 | 0.19 | | | |
| 2/15/2021 | 0.08 (J) | | | | | |
| 2/16/2021 | | | | | | 0.47 |
| 2/22/2021 | | | | 0.55 | | |
| 3/12/2021 | 0.054 (J) | | | | | |
| 3/15/2021 | | | | | 0.086 (J) | 0.51 |
| 3/16/2021 | | 0.21 | 0.2 | | | |

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|---------|---------|---------|---------|-----------|--------|
| 3/17/2021 | | | | 0.65 | | |
| 8/16/2021 | | | | | 0.084 (J) | |
| 8/17/2021 | <0.1 | | | | | |
| 8/18/2021 | | 0.21 | 0.15 | | | 0.41 |
| 8/19/2021 | | | | 0.53 | | |
| 2/9/2022 | 0.12 | 0.2 | 0.2 | | | |
| 2/10/2022 | | | | 0.53 | 0.083 (J) | 0.42 |
| 8/3/2022 | 0.13 | 0.22 | 0.21 | 0.55 | 0.11 | 0.44 |
| 8/11/2022 | | | | | 0.11 | |
| 1/26/2023 | | 0.2 | 0.21 | 0.4 | | |
| 1/27/2023 | 0.16 | | | | 0.1 | |
| 2/1/2023 | | | | | | 0.4 |
| Mean | 0.174 | 0.3355 | 0.3084 | 0.5937 | 0.145 | 0.556 |
| Std. Dev. | 0.1317 | 0.1595 | 0.2332 | 0.1829 | 0.1052 | 0.1706 |
| Upper Lim. | 0.1861 | 0.3995 | 0.34 | 0.687 | 0.15 | 0.63 |
| Lower Lim. | 0.08031 | 0.2471 | 0.17 | 0.5004 | 0.084 | 0.45 |

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D |
|------------|-----------|-----------|-----------|-----------|--------|-----------|
| 5/23/2016 | <0.3 | | | | | |
| 7/12/2016 | 0.24 (J) | | | | | |
| 9/1/2016 | 0.46 | | | | | |
| 10/20/2016 | 0.56 | | | | | |
| 12/6/2016 | 0.31 | | | | | |
| 1/26/2017 | 0.004 (J) | | | | | |
| 3/22/2017 | 0.28 (J) | | | | | |
| 5/23/2017 | 0.29 (J) | | | | | |
| 10/3/2017 | 0.53 | | | | | |
| 4/3/2018 | <0.3 | | | | | |
| 6/6/2018 | 0.12 (J) | | | | | |
| 10/2/2018 | 0.031 (J) | | | | | |
| 3/13/2019 | 0.14 (J) | | 0.072 (J) | 0.074 (J) | | 0.052 (J) |
| 3/14/2019 | | 0.35 | | | 2.2 | |
| 4/2/2019 | | | <0.1 | | | |
| 4/3/2019 | 0.14 (J) | 0.19 (J) | | | 1.6 | 0.044 (J) |
| 4/8/2019 | | | | 0.048 (J) | | |
| 9/25/2019 | | | <0.1 | | | |
| 9/26/2019 | | | | 0.18 (J) | | 0.19 (J) |
| 9/27/2019 | 0.26 (J) | 0.53 | | | 1.5 | |
| 3/2/2020 | | | <0.1 | | | |
| 3/3/2020 | | | | | 1.4 | |
| 3/4/2020 | 0.08 (J) | 0.096 (J) | | 0.051 (J) | | 0.052 (J) |
| 3/26/2020 | | 0.12 (J) | | | 1.6 | |
| 3/27/2020 | | | <0.1 | | | |
| 3/30/2020 | | | | 0.064 (J) | | |
| 3/31/2020 | 0.074 (J) | | | | | <0.3 |
| 9/17/2020 | 0.1 | | <0.1 | | | 0.069 (J) |
| 9/18/2020 | | | | | 1.6 | |
| 9/21/2020 | | 0.17 | | <0.1 | | |
| 2/11/2021 | | | <0.1 | | | |
| 2/12/2021 | | 0.16 | | | 1.6 | |
| 2/16/2021 | 0.096 (J) | | | <0.1 | | 0.071 (J) |
| 3/15/2021 | | | <0.1 | | | |
| 3/16/2021 | 0.098 (J) | | | | 1.7 | |
| 3/17/2021 | | 0.18 | | <0.1 | | 0.072 (J) |
| 8/17/2021 | 0.095 (J) | | <0.1 | | | 0.075 (J) |
| 8/18/2021 | | 0.12 | | | | |
| 8/19/2021 | | | | <0.1 | 1.5 | |
| 2/9/2022 | 0.1 | 0.076 (J) | | | 1.7 | 0.092 (J) |
| 2/10/2022 | | | <0.1 | 0.051 (J) | | |
| 8/3/2022 | | | | 0.075 (J) | | |
| 8/4/2022 | 0.13 | 0.18 | 0.074 (J) | | 1.5 | 0.12 |
| 1/26/2023 | 0.11 | 0.098 (J) | 0.081 (J) | 0.083 (J) | 1.6 | 0.11 |
| Mean | 0.1895 | 0.1892 | 0.09392 | 0.0855 | 1.625 | 0.09142 |
| Std. Dev. | 0.1498 | 0.1289 | 0.01119 | 0.03602 | 0.2006 | 0.04394 |
| Upper Lim. | 0.2386 | 0.2612 | 0.1 | 0.09451 | 1.7 | 0.1259 |
| Lower Lim. | 0.1022 | 0.1025 | 0.074 | 0.04923 | 1.4 | 0.05694 |

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-27D | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|------------|----------|----------|-----------|-----------|-----------|-----------|
| 3/12/2019 | | 0.24 (J) | 0.07 (J) | | | |
| 3/13/2019 | 0.28 (J) | | | 0.1 (J) | 0.19 (J) | 0.069 (J) |
| 4/2/2019 | | 0.18 (J) | 0.045 (J) | | | |
| 4/3/2019 | | | | 0.049 (J) | 0.15 (J) | <0.1 |
| 4/4/2019 | 0.26 (J) | | | | | |
| 9/24/2019 | | | 0.18 (J) | | | |
| 9/25/2019 | | | | 0.076 (J) | | |
| 9/26/2019 | 0.42 | 0.22 (J) | | | 0.19 (J) | 0.17 (J) |
| 3/2/2020 | | | <0.1 | 0.065 (J) | | |
| 3/3/2020 | | | | | 0.062 (J) | <0.1 |
| 3/4/2020 | 0.25 (J) | 0.26 (J) | | | | |
| 3/26/2020 | | | | 0.082 (J) | | |
| 3/27/2020 | | 0.26 (J) | | | <0.1 | |
| 3/30/2020 | | | <0.1 | | | <0.1 |
| 4/2/2020 | 0.24 (J) | | | | | |
| 9/16/2020 | | | <0.1 | | | |
| 9/17/2020 | | | | 0.094 (J) | | |
| 9/18/2020 | 0.22 | | | | | |
| 9/21/2020 | | 0.1 | | | <0.1 | <0.1 |
| 2/10/2021 | | 0.16 | | | | |
| 2/15/2021 | | | <0.1 | | | <0.1 |
| 2/16/2021 | 0.25 | | | 0.051 (J) | 0.059 (J) | |
| 3/12/2021 | 0.24 | | | | | |
| 3/15/2021 | | 0.24 | <0.1 | | | <0.1 |
| 3/16/2021 | | | | <0.1 | 0.06 (J) | |
| 8/16/2021 | | | <0.1 | | | |
| 8/17/2021 | 0.24 | | | <0.1 | 0.055 (J) | <0.1 |
| 8/18/2021 | | 0.14 | | | | |
| 2/8/2022 | | | | | | <0.1 |
| 2/9/2022 | | | | 0.056 (J) | 0.059 (J) | |
| 2/10/2022 | 0.25 | 0.22 | <0.1 | | | |
| 8/3/2022 | 0.27 | | 0.069 (J) | 0.094 (J) | 0.085 (J) | |
| 8/4/2022 | | 0.19 | | | | 0.078 (J) |
| 1/26/2023 | | 0.22 | 0.068 (J) | 0.087 (J) | 0.088 (J) | 0.06 (J) |
| 1/27/2023 | 0.3 | | | | | |
| Mean | 0.2683 | 0.2025 | 0.09433 | 0.0795 | 0.09983 | 0.09808 |
| Std. Dev. | 0.05219 | 0.04975 | 0.03293 | 0.01968 | 0.05 | 0.0268 |
| Upper Lim. | 0.3 | 0.2415 | 0.18 | 0.0865 | 0.1052 | 0.17 |
| Lower Lim. | 0.22 | 0.1635 | 0.068 | 0.05882 | 0.05616 | 0.069 |

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|-----------|-------------|-------------|-------------|-------------|-------------|
| 5/20/2016 | | | | | <0.001 | <0.001 |
| 5/23/2016 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| 7/12/2016 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 9/1/2016 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 10/20/2016 | | | | | <0.001 | <0.001 |
| 10/24/2016 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| 12/6/2016 | | | | | 0.0001 (J) | <0.001 |
| 12/7/2016 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| 1/25/2017 | | | | | 0.0001 (J) | <0.001 |
| 1/26/2017 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| 3/21/2017 | | | | | 9E-05 (J) | <0.001 |
| 3/22/2017 | <0.001 | 0.0003 (J) | <0.001 | 7E-05 (J) | | |
| 5/23/2017 | | | | | 8E-05 (J) | <0.001 |
| 5/24/2017 | <0.001 | 9E-05 (J) | <0.001 | <0.001 | | |
| 4/3/2018 | | | | | <0.001 | <0.001 |
| 4/4/2018 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| 3/12/2019 | | | | | | <0.001 |
| 3/13/2019 | <0.001 | <0.001 | | <0.001 | <0.001 | |
| 3/14/2019 | | | <0.001 | | | |
| 3/3/2020 | <0.001 | 0.00021 (J) | 5.6E-05 (J) | | | 0.00013 (J) |
| 3/4/2020 | | | | 0.00014 (J) | 0.00051 (J) | |
| 3/26/2020 | | | 0.00043 (J) | | | |
| 3/27/2020 | | | | | 5.4E-05 (J) | <0.001 |
| 3/30/2020 | | | | 0.0001 (J) | | |
| 3/31/2020 | | 0.0003 (J) | | | | |
| 4/1/2020 | 5E-05 (J) | | | | | |
| 9/16/2020 | <0.001 | | | | 0.0002 (J) | 0.0002 (J) |
| 9/18/2020 | | 6E-05 (J) | 9.6E-05 (J) | | | |
| 9/21/2020 | | | | 0.00015 (J) | | |
| 2/10/2021 | | | | | 0.00056 (J) | |
| 2/12/2021 | | <0.001 | 6.7E-05 (J) | | | |
| 2/15/2021 | <0.001 | | | | | |
| 2/16/2021 | | | | | | 8.6E-05 (J) |
| 2/22/2021 | | | | 0.00018 (J) | | |
| 3/12/2021 | <0.001 | | | | | |
| 3/15/2021 | | | | | 0.0013 | 0.00011 (J) |
| 3/16/2021 | | 9.9E-05 (J) | 8.9E-05 (J) | | | |
| 3/17/2021 | | | | 0.00015 (J) | | |
| 8/16/2021 | | | | | <0.001 | |
| 8/17/2021 | <0.001 | | | | | |
| 8/18/2021 | | <0.001 | <0.001 | | | <0.001 |
| 8/19/2021 | | | | <0.001 | | |
| 2/9/2022 | <0.001 | <0.001 | <0.001 | | | |
| 2/10/2022 | | | | <0.001 | <0.001 | <0.001 |
| 8/3/2022 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 8/11/2022 | | | | | <0.001 | |
| 1/26/2023 | | <0.001 | <0.001 | <0.001 | | |
| 1/27/2023 | <0.001 | | | | <0.001 | |
| 2/1/2023 | | | | | | <0.001 |
| Mean | 0.00095 | 0.0007399 | 0.0007757 | 0.0007258 | 0.0006997 | 0.0008172 |
| Std. Dev. | 0.0002179 | 0.0003974 | 0.0003928 | 0.0004152 | 0.0004322 | 0.0003643 |
| Upper Lim. | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|---------|---------|---------|---------|--------|--------|
| Lower Lim. | 5E-05 | 0.00021 | 9.6E-05 | 0.00015 | 0.0001 | 0.0002 |

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | MW-19 | MW-20 | MW-24D | MW-26D | MW-27D |
|------------|-------------|-------------|-------------|-------------|------------|-------------|
| 5/23/2016 | <0.001 | | | | | |
| 7/12/2016 | <0.001 | | | | | |
| 9/1/2016 | <0.001 | | | | | |
| 10/20/2016 | <0.001 | | | | | |
| 12/6/2016 | 0.0002 (J) | | | | | |
| 1/26/2017 | 0.0001 (J) | | | | | |
| 3/22/2017 | <0.001 | | | | | |
| 5/23/2017 | 0.0001 (J) | | | | | |
| 4/3/2018 | <0.001 | | | | | |
| 3/13/2019 | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 3/14/2019 | | <0.001 | | | | |
| 3/2/2020 | | | 0.00017 (J) | | | |
| 3/4/2020 | 8.4E-05 (J) | 0.00011 (J) | | 0.00019 (J) | <0.001 | <0.001 |
| 3/26/2020 | | <0.001 | | | | |
| 3/27/2020 | | | 0.00013 (J) | | | |
| 3/30/2020 | | | | 6.4E-05 (J) | | |
| 3/31/2020 | 0.00014 (J) | | | | 0.0001 (J) | |
| 4/2/2020 | | | | | | 0.00013 (J) |
| 9/17/2020 | 0.00022 (J) | | <0.001 | | <0.001 | |
| 9/18/2020 | | | | | | <0.001 |
| 9/21/2020 | | 8.5E-05 (J) | | 4.2E-05 (J) | | |
| 2/11/2021 | | | 3.9E-05 (J) | | | |
| 2/12/2021 | | 7.1E-05 (J) | | | | |
| 2/16/2021 | 0.0002 (J) | | | 0.00012 (J) | 8E-05 (J) | 0.00043 (J) |
| 3/12/2021 | | | | | | <0.001 |
| 3/15/2021 | | | 0.0001 (J) | | | |
| 3/16/2021 | 0.00027 (J) | | | | | |
| 3/17/2021 | | 3.8E-05 (J) | | 4E-05 (J) | <0.001 | |
| 8/17/2021 | <0.001 | | <0.001 | | <0.001 | <0.001 |
| 8/18/2021 | | <0.001 | | | | |
| 8/19/2021 | | | | <0.001 | | |
| 2/9/2022 | <0.001 | <0.001 | | | <0.001 | |
| 2/10/2022 | | | <0.001 | <0.001 | | <0.001 |
| 8/3/2022 | | | | <0.001 | | <0.001 |
| 8/4/2022 | <0.001 | <0.001 | <0.001 | | <0.001 | |
| 1/26/2023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 1/27/2023 | | | | | | <0.001 |
| Mean | 0.0006481 | 0.0006304 | 0.0006439 | 0.0005456 | 0.000818 | 0.000856 |
| Std. Dev. | 0.000426 | 0.0004775 | 0.0004608 | 0.0004809 | 0.0003837 | 0.0003117 |
| Upper Lim. | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Lower Lim. | 0.00014 | 7.1E-05 | 0.0001 | 4.2E-05 | 0.0001 | 0.00043 |

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|------------|-------------|-------------|-------------|-------------|-------------|
| 3/12/2019 | <0.001 | <0.001 | | | |
| 3/13/2019 | | | <0.001 | <0.001 | <0.001 |
| 3/2/2020 | | 9E-05 (J) | 4.7E-05 (J) | | |
| 3/3/2020 | | | | 0.00013 (J) | 6.2E-05 (J) |
| 3/4/2020 | 0.001 (J) | | | | |
| 3/26/2020 | | | <0.001 | | |
| 3/27/2020 | 6.2E-05 (J) | | | <0.001 | |
| 3/30/2020 | | 0.00011 (J) | | | <0.001 |
| 9/16/2020 | | <0.001 | | | |
| 9/17/2020 | | | <0.001 | | |
| 9/21/2020 | 0.00018 (J) | | | 0.00026 (J) | <0.001 |
| 2/10/2021 | 0.00044 (J) | | | | |
| 2/15/2021 | | 5.2E-05 (J) | | | <0.001 |
| 2/16/2021 | | | <0.001 | 8.4E-05 (J) | |
| 3/15/2021 | 0.00034 (J) | <0.001 | | | <0.001 |
| 3/16/2021 | | | <0.001 | 3.6E-05 (J) | |
| 8/16/2021 | | <0.001 | | | |
| 8/17/2021 | | | <0.001 | <0.001 | <0.001 |
| 8/18/2021 | <0.001 | | | | |
| 2/8/2022 | | | | | <0.001 |
| 2/9/2022 | | | <0.001 | <0.001 | |
| 2/10/2022 | <0.001 | <0.001 | | | |
| 8/3/2022 | | <0.001 | <0.001 | <0.001 | |
| 8/4/2022 | <0.001 | | | | <0.001 |
| 1/26/2023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Mean | 0.0007022 | 0.0007252 | 0.0009047 | 0.000651 | 0.0009062 |
| Std. Dev. | 0.0003965 | 0.0004427 | 0.0003014 | 0.000454 | 0.0002966 |
| Upper Lim. | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Lower Lim. | 0.00018 | 9E-05 | 0.001 | 8.4E-05 | 0.001 |

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 | MW-19 |
|------------|------------|------------|------------|------------|------------|------------|
| 5/20/2016 | | | <0.03 | <0.03 | | |
| 5/23/2016 | 0.0107 (J) | 0.0422 (J) | | | <0.03 | |
| 7/12/2016 | 0.0113 (J) | 0.0366 (J) | 0.0021 (J) | 0.0023 (J) | 0.004 (J) | |
| 9/1/2016 | 0.0118 (J) | 0.04 (J) | 0.0025 (J) | 0.0029 (J) | 0.0044 (J) | |
| 10/20/2016 | | | 0.0021 (J) | 0.0027 (J) | 0.0027 (J) | |
| 10/24/2016 | 0.0114 (J) | 0.0435 (J) | | | | |
| 12/6/2016 | | | 0.0026 (J) | 0.0032 (J) | 0.005 (J) | |
| 12/7/2016 | 0.0155 (J) | 0.0477 (J) | | | | |
| 1/25/2017 | | | 0.0024 (J) | 0.0026 (J) | | |
| 1/26/2017 | 0.0099 (J) | 0.0342 (J) | | | 0.0042 (J) | |
| 3/21/2017 | | | 0.0026 (J) | 0.0029 (J) | | |
| 3/22/2017 | 0.0098 (J) | 0.0353 (J) | | | 0.0043 (J) | |
| 5/23/2017 | | | 0.0026 (J) | 0.0029 (J) | 0.0048 (J) | |
| 5/24/2017 | 0.0105 (J) | 0.0317 (J) | | | | |
| 4/3/2018 | | | 0.0023 (J) | 0.0025 (J) | 0.0043 (J) | |
| 4/4/2018 | 0.008 (J) | 0.031 (J) | | | | |
| 6/5/2018 | | 0.031 (J) | 0.0022 (J) | | | |
| 6/6/2018 | 0.0095 (J) | | | 0.0023 (J) | 0.0043 (J) | |
| 10/2/2018 | | | 0.003 (J) | 0.0025 (J) | 0.004 (J) | |
| 10/3/2018 | 0.0083 (J) | | | | | |
| 10/5/2018 | | 0.027 (J) | | | | |
| 3/12/2019 | | | | 0.0025 (J) | | |
| 3/13/2019 | | 0.029 (J) | 0.0024 (J) | | 0.004 (J) | |
| 3/14/2019 | 0.0058 (J) | | | | | 0.0089 (J) |
| 4/2/2019 | | | 0.002 (J) | | | |
| 4/3/2019 | 0.0066 (J) | | | 0.0025 (J) | 0.004 (J) | 0.0061 (J) |
| 4/5/2019 | | 0.023 (J) | | | | |
| 9/24/2019 | | | | 0.0024 (J) | | |
| 9/25/2019 | | | 0.0019 (J) | | | |
| 9/26/2019 | | 0.035 | | | | |
| 9/27/2019 | 0.011 (J) | | | | 0.0044 (J) | 0.013 (J) |
| 3/3/2020 | 0.0063 (J) | | | 0.0028 (J) | | |
| 3/4/2020 | | 0.041 | 0.0034 (J) | | 0.004 (J) | 0.01 (J) |
| 3/26/2020 | 0.0063 (J) | | | | | 0.013 (J) |
| 3/27/2020 | | | 0.002 (J) | 0.0026 (J) | | |
| 3/30/2020 | | 0.038 | | | | |
| 3/31/2020 | | | | | 0.0043 (J) | |
| 9/16/2020 | | | 0.0026 (J) | 0.0033 (J) | | |
| 9/17/2020 | | | | | 0.004 (J) | |
| 9/18/2020 | 0.01 (J) | | | | | |
| 9/21/2020 | | 0.028 (J) | | | | 0.013 (J) |
| 2/10/2021 | | | 0.0032 (J) | | | |
| 2/12/2021 | 0.0094 (J) | | | | | 0.012 (J) |
| 2/16/2021 | | | | 0.0027 (J) | 0.0045 (J) | |
| 2/22/2021 | | 0.032 | | | | |
| 3/15/2021 | | | 0.0038 (J) | 0.0029 (J) | | |
| 3/16/2021 | 0.0081 (J) | | | | 0.0046 (J) | |
| 3/17/2021 | | 0.031 | | | | 0.012 (J) |
| 8/16/2021 | | | 0.0025 (J) | | | |
| 8/17/2021 | | | | | 0.004 (J) | |
| 8/18/2021 | 0.0099 (J) | | | 0.0029 (J) | | 0.014 (J) |
| 8/19/2021 | | 0.028 (J) | | | | |

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 | MW-19 |
|------------|------------|-----------|------------|------------|------------|------------|
| 2/9/2022 | 0.01 (J) | | | | 0.0041 (J) | 0.0067 (J) |
| 2/10/2022 | | 0.031 | 0.0022 (J) | 0.003 (J) | | |
| 8/3/2022 | 0.0068 (J) | 0.029 (J) | 0.0019 (J) | 0.0026 (J) | | |
| 8/4/2022 | | | | | 0.0036 (J) | 0.013 (J) |
| 8/11/2022 | | | 0.0019 (J) | | | |
| 1/26/2023 | 0.0058 (J) | 0.04 | | | 0.0032 (J) | 0.0038 (J) |
| 1/27/2023 | | | 0.0018 (J) | | | |
| 2/1/2023 | | | | 0.0015 (J) | | |
| Mean | 0.009248 | 0.03414 | 0.002958 | 0.003196 | 0.004596 | 0.01046 |
| Std. Dev. | 0.00235 | 0.006137 | 0.002614 | 0.002599 | 0.002319 | 0.003347 |
| Upper Lim. | 0.01048 | 0.03735 | 0.0026 | 0.0029 | 0.0044 | 0.01297 |
| Lower Lim. | 0.008019 | 0.03093 | 0.002 | 0.0025 | 0.004 | 0.008428 |

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D | MW-28D |
|------------|-------------|------------|-----------|------------|------------|------------|
| 3/12/2019 | | | | | | 0.011 (J) |
| 3/13/2019 | 0.0016 (J) | 0.0029 (J) | | 0.0033 (J) | 0.0097 (J) | |
| 3/14/2019 | | | 0.05 | | | |
| 4/2/2019 | 0.0015 (J) | | | | | 0.0052 (J) |
| 4/3/2019 | | | 0.047 (J) | 0.0034 (J) | | |
| 4/4/2019 | | | | | 0.0069 (J) | |
| 4/8/2019 | | 0.0027 (J) | | | | |
| 9/25/2019 | <0.03 | | | | | |
| 9/26/2019 | | 0.003 (J) | | 0.0041 (J) | 0.0055 (J) | 0.0055 (J) |
| 9/27/2019 | | | 0.047 | | | |
| 3/2/2020 | 0.00082 (J) | | | | | |
| 3/3/2020 | | | 0.05 | | | |
| 3/4/2020 | | 0.0026 (J) | | 0.03 (J) | 0.0047 (J) | 0.015 (J) |
| 3/26/2020 | | | 0.054 | | | |
| 3/27/2020 | 0.0012 (J) | | | | | 0.014 (J) |
| 3/30/2020 | | 0.0027 (J) | | | | |
| 3/31/2020 | | | | 0.0036 (J) | | |
| 4/2/2020 | | | | | 0.0068 (J) | |
| 9/17/2020 | <0.03 | | | 0.0032 (J) | | |
| 9/18/2020 | | | 0.046 | | 0.0084 (J) | |
| 9/21/2020 | | 0.0024 (J) | | | | 0.0053 (J) |
| 2/10/2021 | | | | | | 0.0092 (J) |
| 2/11/2021 | 0.001 (J) | | | | | |
| 2/12/2021 | | | 0.045 | | | |
| 2/16/2021 | | 0.0028 (J) | | 0.0038 (J) | 0.0078 (J) | |
| 3/12/2021 | | | | | 0.009 (J) | |
| 3/15/2021 | 0.0011 (J) | | | | | 0.013 (J) |
| 3/16/2021 | | | 0.049 | | | |
| 3/17/2021 | | 0.0027 (J) | | 0.004 (J) | | |
| 8/17/2021 | 0.00091 (J) | | | 0.0036 (J) | 0.0079 (J) | |
| 8/18/2021 | | | | | | 0.0086 (J) |
| 8/19/2021 | | 0.0027 (J) | 0.046 | | | |
| 2/9/2022 | | | 0.048 | 0.0039 (J) | | |
| 2/10/2022 | 0.00099 (J) | 0.0029 (J) | | | 0.0086 (J) | 0.014 (J) |
| 8/3/2022 | | 0.0024 (J) | | | 0.0063 (J) | |
| 8/4/2022 | 0.00075 (J) | | 0.04 | 0.0033 (J) | | 0.0088 (J) |
| 1/26/2023 | <0.03 | 0.0025 (J) | 0.036 | 0.0031 (J) | | 0.011 (J) |
| 1/27/2023 | | | | | 0.0072 (J) | |
| Mean | 0.008322 | 0.002692 | 0.0465 | 0.005775 | 0.0074 | 0.01005 |
| Std. Dev. | 0.01307 | 0.0001929 | 0.004719 | 0.007636 | 0.00146 | 0.003534 |
| Upper Lim. | 0.03 | 0.002843 | 0.0502 | 0.0041 | 0.008546 | 0.01282 |
| Lower Lim. | 0.00082 | 0.00254 | 0.0428 | 0.0032 | 0.006254 | 0.007277 |

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-29 |
|------------|------------|
| 3/12/2019 | 0.0024 (J) |
| 4/2/2019 | 0.0021 (J) |
| 9/24/2019 | 0.0022 (J) |
| 3/2/2020 | 0.0025 (J) |
| 3/30/2020 | 0.0023 (J) |
| 9/16/2020 | 0.0021 (J) |
| 2/15/2021 | 0.0024 (J) |
| 3/15/2021 | 0.0022 (J) |
| 8/16/2021 | 0.0021 (J) |
| 2/10/2022 | 0.0023 (J) |
| 8/3/2022 | 0.0018 (J) |
| 1/26/2023 | 0.0019 (J) |
| Mean | 0.002192 |
| Std. Dev. | 0.0002065 |
| Upper Lim. | 0.002354 |
| Lower Lim. | 0.00203 |

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-13 | HGWC-9 |
|------------|-----------|-----------|-----------|-----------|
| 5/23/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 7/12/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 9/1/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 10/20/2016 | | | | <0.0002 |
| 10/24/2016 | <0.0002 | <0.0002 | <0.0002 | |
| 12/6/2016 | | | | <0.0002 |
| 12/7/2016 | <0.0002 | <0.0002 | <0.0002 | |
| 1/26/2017 | 5E-05 (J) | 5E-05 (J) | 4E-05 (J) | 4E-05 (J) |
| 3/22/2017 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 5/23/2017 | | | | <0.0002 |
| 5/24/2017 | <0.0002 | <0.0002 | 5E-05 (J) | |
| 4/3/2018 | | | | <0.0002 |
| 4/4/2018 | <0.0002 | <0.0002 | <0.0002 | |
| 3/13/2019 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 3/3/2020 | <0.0002 | <0.0002 | | |
| 3/4/2020 | | | <0.0002 | <0.0002 |
| 2/12/2021 | | <0.0002 | | |
| 2/15/2021 | <0.0002 | | | |
| 2/16/2021 | | | | <0.0002 |
| 2/22/2021 | | | <0.0002 | |
| 2/9/2022 | <0.0002 | <0.0002 | | <0.0002 |
| 2/10/2022 | | | <0.0002 | |
| 8/3/2022 | <0.0002 | <0.0002 | <0.0002 | |
| 8/4/2022 | | | | <0.0002 |
| 1/26/2023 | | <0.0002 | <0.0002 | <0.0002 |
| 1/27/2023 | <0.0002 | | | |
| Mean | 0.00019 | 0.00019 | 0.0001793 | 0.0001893 |
| Std. Dev. | 3.873E-05 | 3.873E-05 | 5.457E-05 | 4.131E-05 |
| Upper Lim. | 0.0002 | 0.0002 | 0.0002 | 0.0002 |
| Lower Lim. | 5E-05 | 5E-05 | 5E-05 | 4E-05 |

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|------------|------------|------------|---------|--------|--------|
| 5/20/2016 | | | | | 0.028 | 0.446 |
| 5/23/2016 | <0.01 | 0.0164 | 0.0413 (J) | 0.027 | | |
| 7/12/2016 | 0.0013 (J) | 0.0251 | 0.0484 | 0.0316 | 0.0273 | 0.455 |
| 9/1/2016 | <0.01 | 0.0259 | 0.0474 | 0.0336 | 0.0274 | 0.481 |
| 10/20/2016 | | | | | 0.036 | 0.472 |
| 10/24/2016 | <0.01 | 0.0293 | 0.047 | 0.0352 | | |
| 12/6/2016 | | | | | 0.0365 | 0.52 |
| 12/7/2016 | <0.01 | 0.0209 | 0.0432 | 0.0383 | | |
| 1/25/2017 | | | | | 0.0317 | 0.478 |
| 1/26/2017 | <0.01 | 0.0277 | 0.0484 | 0.041 | | |
| 3/21/2017 | | | | | 0.0346 | 0.547 |
| 3/22/2017 | 0.0013 (J) | 0.011 | 0.0494 | 0.0426 | | |
| 5/23/2017 | | | | | 0.0336 | 0.482 |
| 5/24/2017 | 0.0014 (J) | 0.0373 | 0.047 | 0.04 | | |
| 4/3/2018 | | | | | 0.032 | 0.44 |
| 4/4/2018 | <0.01 | 0.013 | 0.052 | 0.027 | | |
| 6/5/2018 | <0.01 | 0.029 | | 0.027 | 0.036 | |
| 6/6/2018 | | | 0.054 | | | 0.49 |
| 10/2/2018 | <0.01 | | | | 0.039 | 0.47 |
| 10/3/2018 | | 0.02 | 0.054 | | | |
| 10/5/2018 | | | | 0.033 | | |
| 3/12/2019 | | | | | | 0.5 |
| 3/13/2019 | <0.01 | 0.012 | | 0.033 | 0.04 | |
| 3/14/2019 | | | 0.046 | | | |
| 4/2/2019 | | | | | 0.041 | |
| 4/3/2019 | 0.0021 (J) | 0.01 | 0.049 | | | 0.5 |
| 4/5/2019 | | | | 0.03 | | |
| 9/24/2019 | | | | | | 0.54 |
| 9/25/2019 | | | | | 0.047 | |
| 9/26/2019 | | | | 0.026 | | |
| 9/27/2019 | 0.0014 (J) | 0.016 | 0.052 | | | |
| 3/3/2020 | <0.01 | 0.011 | 0.045 | | | 0.44 |
| 3/4/2020 | | | | 0.03 | 0.045 | |
| 3/26/2020 | | | 0.045 | | | |
| 3/27/2020 | | | | | 0.044 | 0.42 |
| 3/30/2020 | | | | 0.029 | | |
| 3/31/2020 | | 0.0074 (J) | | | | |
| 4/1/2020 | <0.01 | | | | | |
| 6/16/2020 | | | | | | 0.45 |
| 6/17/2020 | | | | | 0.048 | |
| 9/16/2020 | 0.0014 (J) | | | | 0.046 | 0.43 |
| 9/18/2020 | | 0.032 | 0.046 | | | |
| 9/21/2020 | | | | 0.032 | | |
| 2/10/2021 | | | | | 0.051 | |
| 2/12/2021 | | 0.023 | 0.048 | | | |
| 2/15/2021 | <0.01 | | | | | |
| 2/16/2021 | | | | | | 0.46 |
| 2/22/2021 | | | | 0.036 | | |
| 3/12/2021 | 0.0007 (J) | | | | | |
| 3/15/2021 | | | | | 0.047 | 0.41 |
| 3/16/2021 | | 0.015 | 0.044 | | | |
| 3/17/2021 | | | | 0.035 | | |

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|-------------|----------|----------|----------|----------|---------|
| 8/16/2021 | | | | | 0.045 | |
| 8/17/2021 | 0.0012 (J) | | | | | |
| 8/18/2021 | | 0.038 | 0.045 | | | 0.48 |
| 8/19/2021 | | | | 0.032 | | |
| 2/9/2022 | <0.01 | 0.03 | 0.042 | | | |
| 2/10/2022 | | | | 0.033 | 0.045 | 0.34 |
| 8/3/2022 | 0.00079 (J) | 0.027 | 0.047 | 0.035 | 0.038 | 0.29 |
| 8/11/2022 | | | | | 0.044 | |
| 1/26/2023 | | 0.022 | 0.048 | 0.023 | | |
| 1/27/2023 | <0.01 | | | | 0.039 | |
| 2/1/2023 | | | | | | 0.29 |
| Mean | 0.006591 | 0.0217 | 0.04735 | 0.03262 | 0.03928 | 0.4513 |
| Std. Dev. | 0.004354 | 0.008891 | 0.003411 | 0.004987 | 0.006866 | 0.06596 |
| Upper Lim. | 0.01 | 0.02635 | 0.04914 | 0.03523 | 0.04271 | 0.4856 |
| Lower Lim. | 0.0014 | 0.01705 | 0.04557 | 0.03001 | 0.03586 | 0.4241 |

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | MW-19 | MW-24D | MW-25D | MW-26D | MW-27D |
|------------|---------|---------|-------------|-------------|------------|------------|
| 5/23/2016 | 0.0187 | | | | | |
| 7/12/2016 | 0.0229 | | | | | |
| 9/1/2016 | 0.0239 | | | | | |
| 10/20/2016 | 0.477 | | | | | |
| 12/6/2016 | 0.0236 | | | | | |
| 1/26/2017 | 0.0234 | | | | | |
| 3/22/2017 | 0.0219 | | | | | |
| 5/23/2017 | 0.0242 | | | | | |
| 4/3/2018 | 0.025 | | | | | |
| 6/6/2018 | 0.027 | | | | | |
| 10/2/2018 | 0.028 | | | | | |
| 3/13/2019 | 0.028 | | <0.01 | | <0.01 | <0.01 |
| 3/14/2019 | | 0.057 | | 0.0022 (J) | | |
| 4/3/2019 | 0.03 | 0.04 | | <0.01 | 0.0083 (J) | |
| 4/4/2019 | | | | | | 0.0018 (J) |
| 4/8/2019 | | | 0.00027 (J) | | | |
| 9/26/2019 | | | <0.01 | | 0.017 | 0.0042 (J) |
| 9/27/2019 | 0.033 | 0.063 | | <0.01 | | |
| 11/25/2019 | | | | | 0.02 | |
| 3/3/2020 | | | | <0.01 | | |
| 3/4/2020 | 0.031 | 0.032 | <0.01 | | 0.0074 (J) | 0.0058 (J) |
| 3/26/2020 | | 0.033 | | <0.01 | | |
| 3/30/2020 | | | <0.01 | | | |
| 3/31/2020 | 0.031 | | | | 0.0093 (J) | |
| 4/2/2020 | | | | | | 0.003 (J) |
| 9/17/2020 | 0.03 | | | | 0.014 | |
| 9/18/2020 | | | | 0.00094 (J) | | 0.0018 (J) |
| 9/21/2020 | | 0.064 | 0.00099 (J) | | | |
| 2/12/2021 | | 0.046 | | <0.01 | | |
| 2/16/2021 | 0.035 | | 0.00096 (J) | | 0.022 | 0.0019 (J) |
| 3/12/2021 | | | | | | 0.0008 (J) |
| 3/16/2021 | 0.035 | | | <0.01 | | |
| 3/17/2021 | | 0.043 | 0.001 (J) | | 0.023 | |
| 8/17/2021 | 0.035 | | | | 0.024 | 0.0016 (J) |
| 8/18/2021 | | 0.032 | | | | |
| 8/19/2021 | | | 0.00087 (J) | <0.01 | | |
| 2/9/2022 | 0.034 | 0.011 | | <0.01 | 0.028 | |
| 2/10/2022 | | | 0.0008 (J) | | | 0.0017 (J) |
| 8/3/2022 | | | 0.00095 (J) | | | 0.002 (J) |
| 8/4/2022 | 0.033 | 0.039 | | <0.01 | 0.028 | |
| 1/26/2023 | 0.021 | 0.012 | 0.0012 (J) | <0.01 | 0.028 | |
| 1/27/2023 | | | | | | 0.0014 (J) |
| Mean | 0.04746 | 0.03933 | 0.00392 | 0.008595 | 0.018 | 0.002583 |
| Std. Dev. | 0.09377 | 0.01715 | 0.004496 | 0.003292 | 0.008412 | 0.001576 |
| Upper Lim. | 0.033 | 0.05279 | 0.01 | 0.01 | 0.02425 | 0.003636 |
| Lower Lim. | 0.0236 | 0.02587 | 0.0008 | 0.0022 | 0.01175 | 0.001403 |

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-6 | MW-7 |
|------------|------------|------------|------------|------------|
| 3/12/2019 | 0.013 | 0.0038 (J) | | |
| 3/13/2019 | | | 0.0021 (J) | <0.01 |
| 4/2/2019 | 0.028 | 0.0028 (J) | | |
| 4/3/2019 | | | 0.0021 (J) | <0.01 |
| 9/24/2019 | | 0.0021 (J) | | |
| 9/26/2019 | 0.017 | | 0.0026 (J) | 0.0033 (J) |
| 3/2/2020 | | 0.0025 (J) | | |
| 3/3/2020 | | | 0.0022 (J) | <0.01 |
| 3/4/2020 | 0.009 (J) | | | |
| 3/27/2020 | 0.0068 (J) | | 0.0026 (J) | |
| 3/30/2020 | | 0.0029 (J) | | <0.01 |
| 9/16/2020 | | 0.0021 (J) | | |
| 9/21/2020 | 0.018 | | 0.0025 (J) | 0.0015 (J) |
| 2/10/2021 | 0.02 | | | |
| 2/15/2021 | | 0.0029 (J) | | 0.0015 (J) |
| 2/16/2021 | | | 0.0025 (J) | |
| 3/15/2021 | 0.013 | 0.0031 (J) | | 0.0015 (J) |
| 3/16/2021 | | | 0.0023 (J) | |
| 8/16/2021 | | 0.0027 (J) | | |
| 8/17/2021 | | | 0.0027 (J) | 0.003 (J) |
| 8/18/2021 | 0.022 | | | |
| 2/8/2022 | | | | 0.0012 (J) |
| 2/9/2022 | | | 0.0026 (J) | |
| 2/10/2022 | 0.0031 (J) | 0.0036 (J) | | |
| 8/3/2022 | | 0.0032 (J) | 0.0028 (J) | |
| 8/4/2022 | 0.011 | | | 0.0014 (J) |
| 1/26/2023 | 0.0025 (J) | 0.0029 (J) | 0.0029 (J) | <0.01 |
| Mean | 0.01362 | 0.002883 | 0.002492 | 0.005283 |
| Std. Dev. | 0.007735 | 0.0005149 | 0.0002644 | 0.004211 |
| Upper Lim. | 0.01969 | 0.003287 | 0.002699 | 0.01 |
| Lower Lim. | 0.007547 | 0.002479 | 0.002284 | 0.0014 |

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-8 | HGWC-9 |
|------------|------------|------------|------------|-------------|------------|------------|
| 5/20/2016 | | | | | <0.005 | |
| 5/23/2016 | <0.005 | 0.0106 | <0.005 | <0.005 | | <0.005 |
| 7/12/2016 | <0.005 | 0.0057 (J) | <0.005 | <0.005 | <0.005 | <0.005 |
| 9/1/2016 | <0.005 | 0.0057 (J) | <0.005 | <0.005 | <0.005 | <0.005 |
| 10/20/2016 | | | | | <0.005 | <0.005 |
| 10/24/2016 | <0.005 | 0.0021 (J) | <0.005 | <0.005 | | |
| 12/6/2016 | | | | | 0.0024 (J) | 0.0037 (J) |
| 12/7/2016 | <0.005 | 0.0015 (J) | 0.0011 (J) | <0.005 | | |
| 1/25/2017 | | | | | <0.005 | |
| 1/26/2017 | 0.0041 (J) | 0.0062 (J) | <0.005 | <0.005 | | <0.005 |
| 3/21/2017 | | | | | <0.005 | |
| 3/22/2017 | <0.005 | 0.0263 | <0.005 | <0.005 | | <0.005 |
| 5/23/2017 | | | | | <0.005 | <0.005 |
| 5/24/2017 | <0.005 | 0.0038 (J) | <0.005 | <0.005 | | |
| 4/3/2018 | | | | | <0.005 | <0.005 |
| 4/4/2018 | <0.005 | 0.021 | <0.005 | <0.005 | | |
| 6/5/2018 | <0.005 | 0.0062 (J) | | <0.005 | | |
| 6/6/2018 | | | <0.005 | | <0.005 | <0.005 |
| 10/2/2018 | 0.0023 (J) | | | | <0.005 | <0.005 |
| 10/3/2018 | | 0.009 (J) | <0.005 | | | |
| 10/5/2018 | | | | <0.005 | | |
| 3/12/2019 | | | | | <0.005 | |
| 3/13/2019 | 0.0015 (J) | 0.023 | | <0.005 | | <0.005 |
| 3/14/2019 | | | <0.005 | | | |
| 4/3/2019 | <0.005 | 0.016 | <0.005 | | <0.005 | <0.005 |
| 4/5/2019 | | | | 0.00018 (J) | | |
| 9/24/2019 | | | | | <0.005 | |
| 9/26/2019 | | | | <0.005 | | |
| 9/27/2019 | <0.005 | 0.013 | <0.005 | | | <0.005 |
| 3/3/2020 | <0.005 | 0.016 | <0.005 | | <0.005 | |
| 3/4/2020 | | | | <0.005 | | <0.005 |
| 3/26/2020 | | | <0.005 | | | |
| 3/27/2020 | | | | | <0.005 | |
| 3/30/2020 | | | | <0.005 | | |
| 3/31/2020 | | 0.019 | | | | <0.005 |
| 4/1/2020 | 0.002 (J) | | | | | |
| 9/16/2020 | <0.005 | | | | <0.005 | |
| 9/17/2020 | | | | | | <0.005 |
| 9/18/2020 | | 0.0042 (J) | <0.005 | | | |
| 9/21/2020 | | | | 0.0016 (J) | | |
| 2/12/2021 | | 0.0079 (J) | <0.005 | | | |
| 2/15/2021 | 0.0028 (J) | | | | | |
| 2/16/2021 | | | | | <0.005 | <0.005 |
| 2/22/2021 | | | | <0.005 | | |
| 3/12/2021 | <0.005 | | | | | |
| 3/15/2021 | | | | | <0.005 | |
| 3/16/2021 | | 0.015 | <0.005 | | | <0.005 |
| 3/17/2021 | | | | <0.005 | | |
| 8/17/2021 | <0.005 | | | | | <0.005 |
| 8/18/2021 | | 0.0033 (J) | <0.005 | | <0.005 | |
| 8/19/2021 | | | | <0.005 | | |
| 2/9/2022 | 0.0031 (J) | 0.0035 (J) | <0.005 | | | <0.005 |

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-8 | HGWC-9 |
|------------|------------|----------|-----------|----------|-----------|-----------|
| 2/10/2022 | | | | <0.005 | <0.005 | |
| 8/3/2022 | 0.0017 (J) | 0.0057 | <0.005 | <0.005 | <0.005 | |
| 8/4/2022 | | | | | | <0.005 |
| 1/26/2023 | | 0.01 | <0.005 | <0.005 | | <0.005 |
| 1/27/2023 | 0.0035 (J) | | | | | |
| 2/1/2023 | | | | | <0.005 | |
| Mean | 0.004174 | 0.0102 | 0.00483 | 0.004643 | 0.004887 | 0.004943 |
| Std. Dev. | 0.001266 | 0.007153 | 0.0008132 | 0.001203 | 0.0005421 | 0.0002711 |
| Upper Lim. | 0.005 | 0.01395 | 0.005 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.0031 | 0.006463 | 0.0011 | 0.0016 | 0.0024 | 0.0037 |

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-27D | MW-5 | MW-7 |
|------------|------------|-------------|------------|------------|
| 3/13/2019 | | <0.005 | 0.0033 (J) | 0.0016 (J) |
| 3/14/2019 | <0.005 | | | |
| 4/3/2019 | 0.007 (J) | | 0.0027 (J) | <0.005 |
| 4/4/2019 | | 0.00012 (J) | | |
| 9/25/2019 | | | 0.0021 (J) | |
| 9/26/2019 | | <0.005 | | 0.0014 (J) |
| 9/27/2019 | 0.0013 (J) | | | |
| 3/2/2020 | | | 0.0041 (J) | |
| 3/3/2020 | | | | <0.005 |
| 3/4/2020 | 0.0044 (J) | <0.005 | | |
| 3/26/2020 | 0.0053 (J) | | 0.0039 (J) | |
| 3/30/2020 | | | | 0.0014 (J) |
| 4/2/2020 | | <0.005 | | |
| 9/17/2020 | | | 0.0028 (J) | |
| 9/18/2020 | | <0.005 | | |
| 9/21/2020 | 0.0033 (J) | | | 0.0026 (J) |
| 2/12/2021 | 0.0021 (J) | | | |
| 2/15/2021 | | | | <0.005 |
| 2/16/2021 | | <0.005 | 0.0035 (J) | |
| 3/12/2021 | | <0.005 | | |
| 3/15/2021 | | | | 0.0021 (J) |
| 3/16/2021 | | | 0.0026 (J) | |
| 3/17/2021 | <0.005 | | | |
| 8/17/2021 | | <0.005 | 0.0017 (J) | <0.005 |
| 8/18/2021 | 0.0026 (J) | | | |
| 2/8/2022 | | | | 0.0015 (J) |
| 2/9/2022 | 0.0036 (J) | | 0.0027 (J) | |
| 2/10/2022 | | <0.005 | | |
| 8/3/2022 | | <0.005 | 0.0032 (J) | |
| 8/4/2022 | 0.0022 (J) | | | <0.005 |
| 1/26/2023 | 0.0056 | | 0.0045 (J) | <0.005 |
| 1/27/2023 | | <0.005 | | |
| Mean | 0.00395 | 0.004593 | 0.003092 | 0.003383 |
| Std. Dev. | 0.001709 | 0.001409 | 0.0008218 | 0.00172 |
| Upper Lim. | 0.00488 | 0.005 | 0.003736 | 0.005 |
| Lower Lim. | 0.002282 | 0.00012 | 0.002447 | 0.0014 |

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-8 | MW-19 | MW-28D |
|------------|-----------|-------------|--------------|-------------|-------------|-------------|
| 5/20/2016 | | | | <0.001 | | |
| 5/23/2016 | <0.001 | <0.001 | 0.000378 (J) | | | |
| 7/12/2016 | 8E-05 (J) | 0.0002 (J) | 0.0004 (J) | 7E-05 (J) | | |
| 9/1/2016 | <0.001 | <0.001 | 0.0004 (J) | <0.001 | | |
| 10/20/2016 | | | | <0.001 | | |
| 10/24/2016 | <0.001 | <0.001 | 0.0005 (J) | | | |
| 12/6/2016 | | | | <0.001 | | |
| 12/7/2016 | <0.001 | <0.001 | 0.0004 (J) | | | |
| 1/25/2017 | | | | <0.001 | | |
| 1/26/2017 | <0.001 | <0.001 | 0.0004 (J) | | | |
| 3/21/2017 | | | | 9E-05 (J) | | |
| 3/22/2017 | <0.001 | 0.0001 (J) | 0.0004 (J) | | | |
| 5/23/2017 | | | | 8E-05 (J) | | |
| 5/24/2017 | 8E-05 (J) | 9E-05 (J) | 0.0003 (J) | | | |
| 4/3/2018 | | | | <0.001 | | |
| 4/4/2018 | <0.001 | <0.001 | 0.00032 (J) | | | |
| 6/5/2018 | <0.001 | | 0.00035 (J) | | | |
| 6/6/2018 | | <0.001 | | <0.001 | | |
| 10/2/2018 | | | | <0.001 | | |
| 10/3/2018 | <0.001 | <0.001 | | | | |
| 10/5/2018 | | | 0.00025 (J) | | | |
| 3/12/2019 | | | | <0.001 | | <0.001 |
| 3/13/2019 | <0.001 | | 0.00039 (J) | | | |
| 3/14/2019 | | <0.001 | | | <0.001 | |
| 4/2/2019 | | | | | | <0.001 |
| 4/3/2019 | <0.001 | <0.001 | | <0.001 | <0.001 | |
| 4/5/2019 | | | 0.00034 (J) | | | |
| 9/24/2019 | | | | 0.00011 (J) | | |
| 9/26/2019 | | | 0.00039 (J) | | | <0.001 |
| 9/27/2019 | <0.001 | 8.8E-05 (J) | | | 0.00027 (J) | |
| 3/3/2020 | <0.001 | 6.6E-05 (J) | | 6.1E-05 (J) | | |
| 3/4/2020 | | | 0.00056 (J) | | 0.00026 (J) | 9.2E-05 (J) |
| 3/26/2020 | | 8E-05 (J) | | | 0.00026 (J) | |
| 3/27/2020 | | | | 7.7E-05 (J) | | <0.001 |
| 3/30/2020 | | | 0.00048 (J) | | | |
| 3/31/2020 | <0.001 | | | | | |
| 9/16/2020 | | | | <0.001 | | |
| 9/18/2020 | <0.001 | <0.001 | | | | |
| 9/21/2020 | | | 0.00036 (J) | | 0.0003 (J) | <0.001 |
| 2/10/2021 | | | | | | <0.001 |
| 2/12/2021 | <0.001 | <0.001 | | | 0.00019 (J) | |
| 2/16/2021 | | | | <0.001 | | |
| 2/22/2021 | | | 0.0003 (J) | | | |
| 3/15/2021 | | | | <0.001 | | <0.001 |
| 3/16/2021 | <0.001 | <0.001 | | | | |
| 3/17/2021 | | | 0.00037 (J) | | 0.00026 (J) | |
| 8/18/2021 | <0.001 | <0.001 | | <0.001 | 0.00023 (J) | <0.001 |
| 8/19/2021 | | | 0.0002 (J) | | | |
| 2/9/2022 | <0.001 | <0.001 | | | <0.001 | |
| 2/10/2022 | | | <0.001 | <0.001 | | <0.001 |
| 8/3/2022 | <0.001 | <0.001 | <0.001 | 0.00018 (J) | | |
| 8/4/2022 | | | | | 0.00026 (J) | <0.001 |

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-8 | MW-19 | MW-28D |
|------------|-----------|-----------|-------------|-----------|-----------|-----------|
| 1/26/2023 | <0.001 | <0.001 | 0.00031 (J) | | <0.001 | <0.001 |
| 2/1/2023 | | | | <0.001 | | |
| Mean | 0.00092 | 0.0007663 | 0.0003825 | 0.0007247 | 0.0005025 | 0.0009243 |
| Std. Dev. | 0.0002651 | 0.0004029 | 8.561E-05 | 0.0004261 | 0.0003683 | 0.0002621 |
| Upper Lim. | 0.001 | 0.001 | 0.0004273 | 0.001 | 0.001 | 0.001 |
| Lower Lim. | 8E-05 | 0.0002 | 0.0003377 | 0.00011 | 0.00023 | 9.2E-05 |

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/14/2023 1:13 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-29 | MW-6 |
|------------|-------------|-------------|
| 3/12/2019 | <0.001 | |
| 3/13/2019 | | <0.001 |
| 4/2/2019 | <0.001 | |
| 4/3/2019 | | <0.001 |
| 9/24/2019 | 6.4E-05 (J) | |
| 9/26/2019 | | <0.001 |
| 3/2/2020 | <0.001 | |
| 3/3/2020 | | 8.2E-05 (J) |
| 3/27/2020 | | <0.001 |
| 3/30/2020 | <0.001 | |
| 9/16/2020 | <0.001 | |
| 9/21/2020 | | <0.001 |
| 2/15/2021 | <0.001 | |
| 2/16/2021 | | <0.001 |
| 3/15/2021 | <0.001 | |
| 3/16/2021 | | <0.001 |
| 8/16/2021 | <0.001 | |
| 8/17/2021 | | <0.001 |
| 2/9/2022 | | <0.001 |
| 2/10/2022 | <0.001 | |
| 8/3/2022 | <0.001 | <0.001 |
| 1/26/2023 | <0.001 | <0.001 |
| Mean | 0.000922 | 0.0009235 |
| Std. Dev. | 0.0002702 | 0.000265 |
| Upper Lim. | 0.001 | 0.001 |
| Lower Lim. | 6.4E-05 | 8.2E-05 |

FIGURE I.

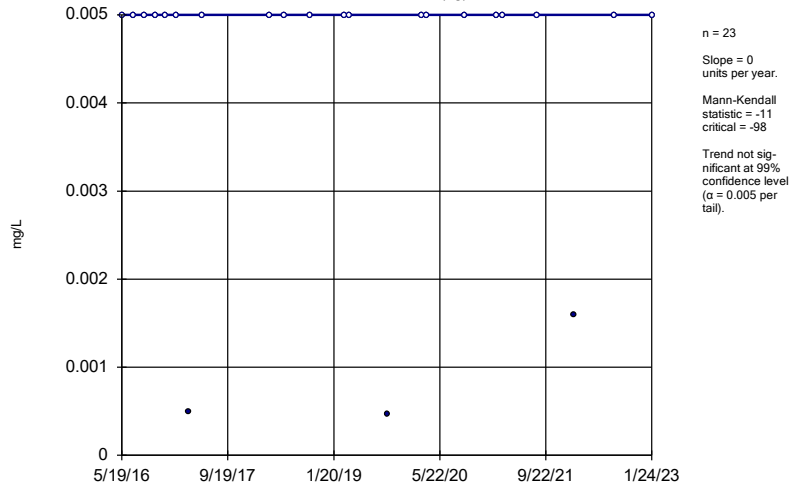
Appendix IV Trend Tests - All Results (No Significant)

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 1:16 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------|---------------|------------|-------|----------|------|----|-------|-----------|-------|-------|--------|
| Arsenic (mg/L) | HGWA-1 (bg) | 0 | -11 | -98 | No | 23 | 86.96 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | HGWA-2 (bg) | 0 | 34 | 98 | No | 23 | 60.87 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | HGWA-3 (bg) | 0 | 22 | 98 | No | 23 | 60.87 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | HGWA-43D (bg) | 0 | 5 | 30 | No | 10 | 40 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | HGWA-44D (bg) | 0 | -10 | -30 | No | 10 | 70 | n/a | n/a | 0.01 | NP |
| Arsenic (mg/L) | HGWC-13 | 0.01498 | 85 | 98 | No | 23 | 0 | n/a | n/a | 0.01 | NP |
| Molybdenum (mg/L) | HGWA-1 (bg) | 0 | 0 | 105 | No | 24 | 100 | n/a | n/a | 0.01 | NP |
| Molybdenum (mg/L) | HGWA-2 (bg) | 0 | 0 | 98 | No | 23 | 100 | n/a | n/a | 0.01 | NP |
| Molybdenum (mg/L) | HGWA-3 (bg) | 0 | 0 | 105 | No | 24 | 100 | n/a | n/a | 0.01 | NP |
| Molybdenum (mg/L) | HGWA-43D (bg) | -0.0007215 | -20 | -30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Molybdenum (mg/L) | HGWA-44D (bg) | 0.000373 | 20 | 30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Molybdenum (mg/L) | HGWC-8 | -0.01469 | -99 | -105 | No | 24 | 0 | n/a | n/a | 0.01 | NP |

Sen's Slope Estimator

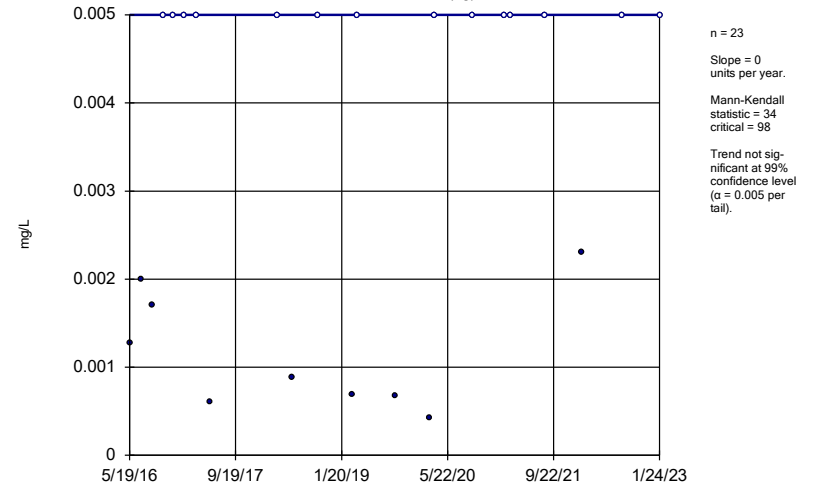
HGWA-1 (bg)



Constituent: Arsenic Analysis Run 4/14/2023 1:14 PM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

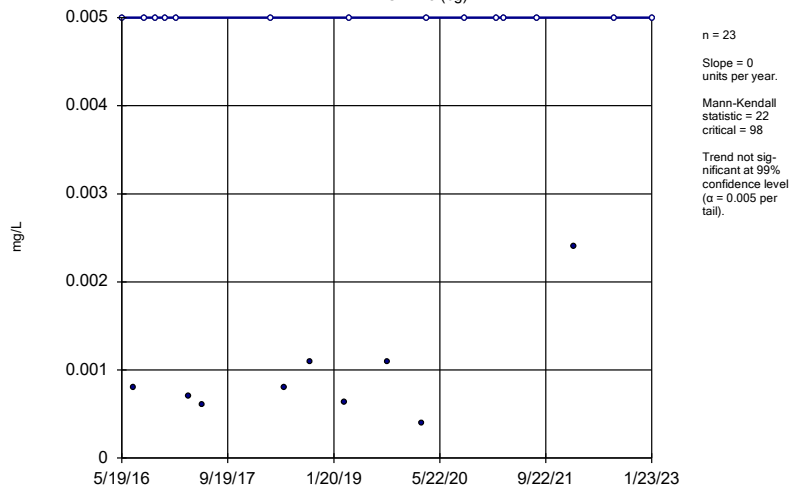
HGWA-2 (bg)



Constituent: Arsenic Analysis Run 4/14/2023 1:14 PM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

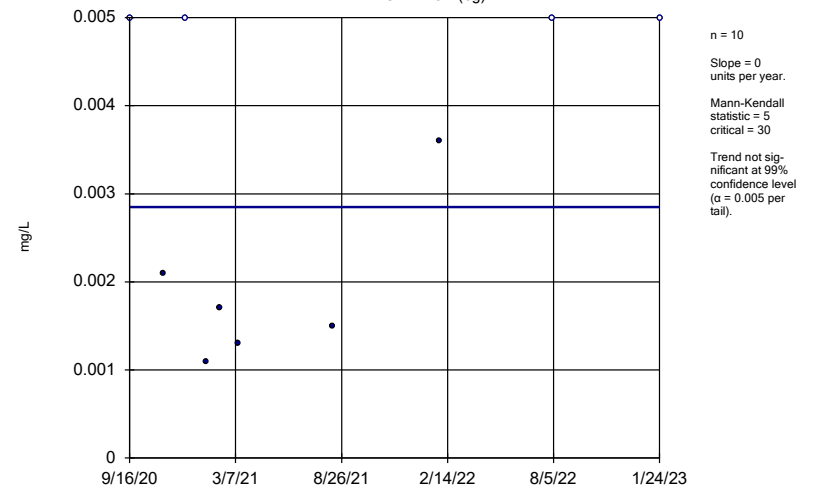
HGWA-3 (bg)



Constituent: Arsenic Analysis Run 4/14/2023 1:14 PM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

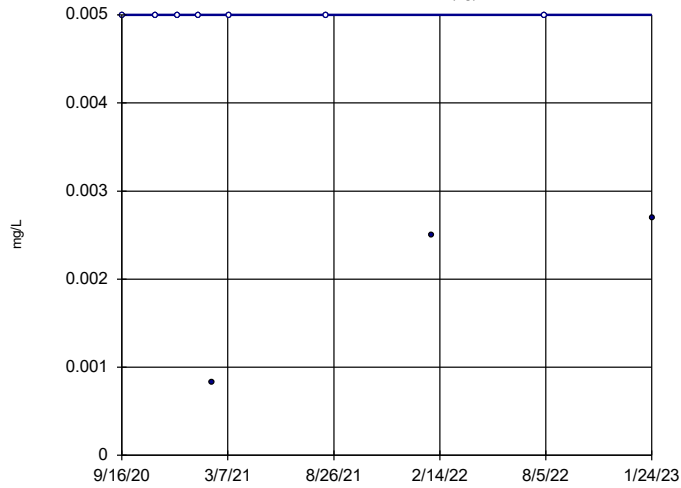
HGWA-43D (bg)



Constituent: Arsenic Analysis Run 4/14/2023 1:14 PM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-44D (bg)

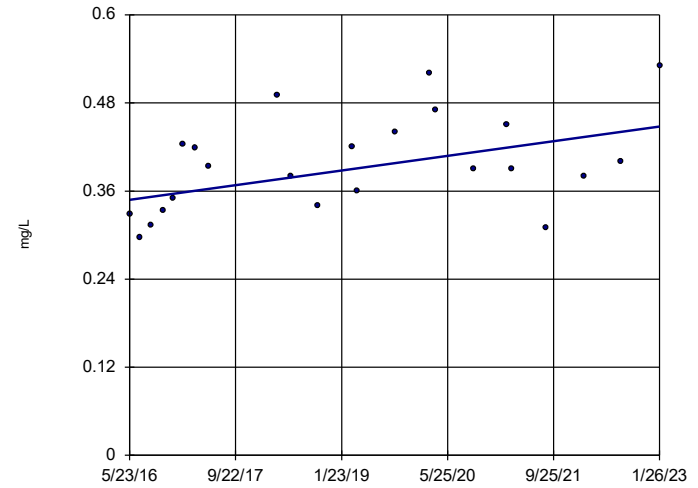


n = 10
Slope = 0
units per year.
Mann-Kendall
statistic = -10
critical = -30
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 4/14/2023 1:14 PM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-13

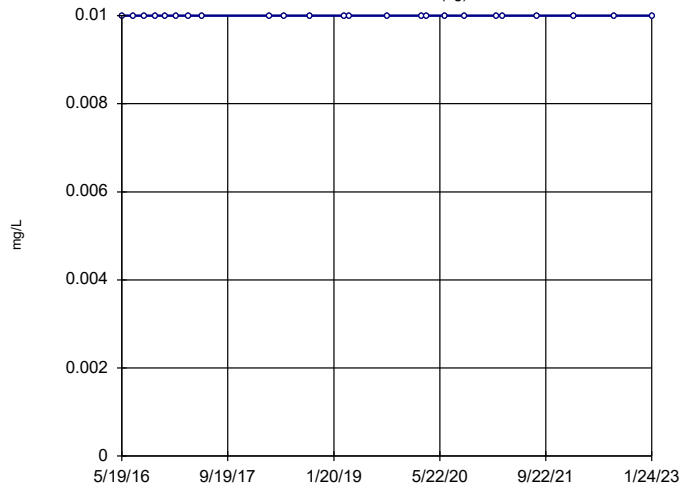


n = 23
Slope = 0.01498
units per year.
Mann-Kendall
statistic = 85
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Arsenic Analysis Run 4/14/2023 1:14 PM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-1 (bg)

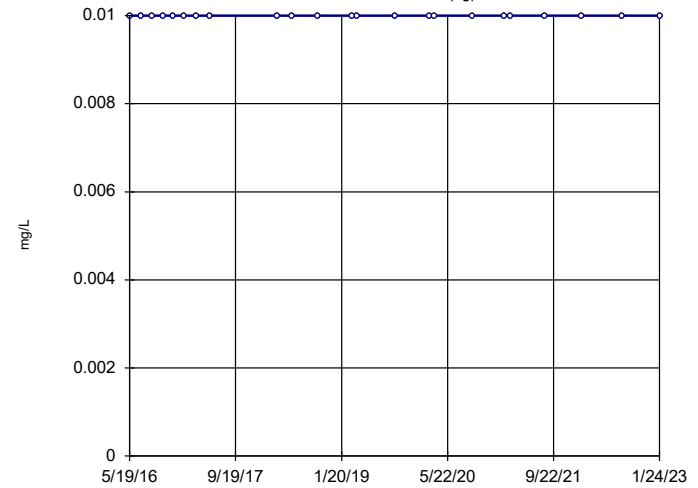


n = 24
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 105
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Molybdenum Analysis Run 4/14/2023 1:14 PM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-2 (bg)

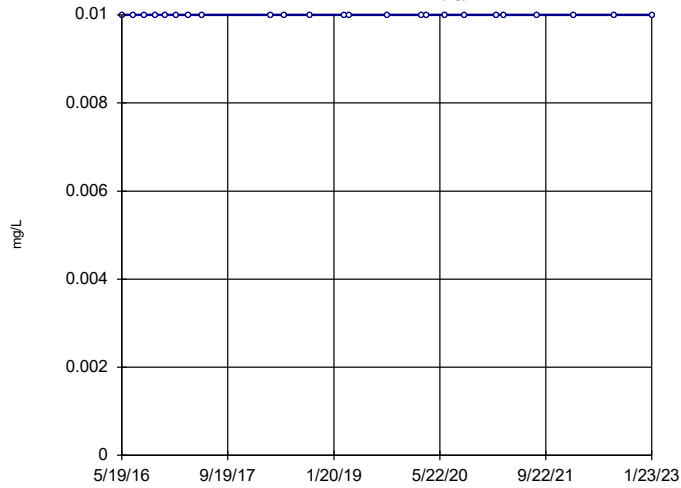


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Molybdenum Analysis Run 4/14/2023 1:14 PM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-3 (bg)

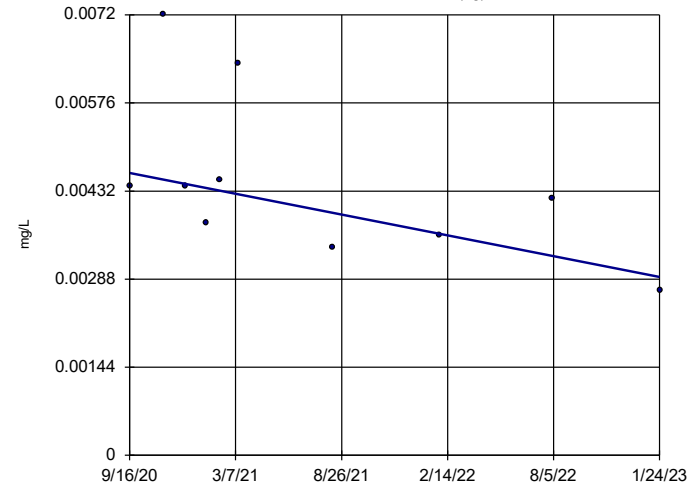


n = 24
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 105
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Molybdenum Analysis Run 4/14/2023 1:14 PM View: Appendix IV - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-43D (bg)

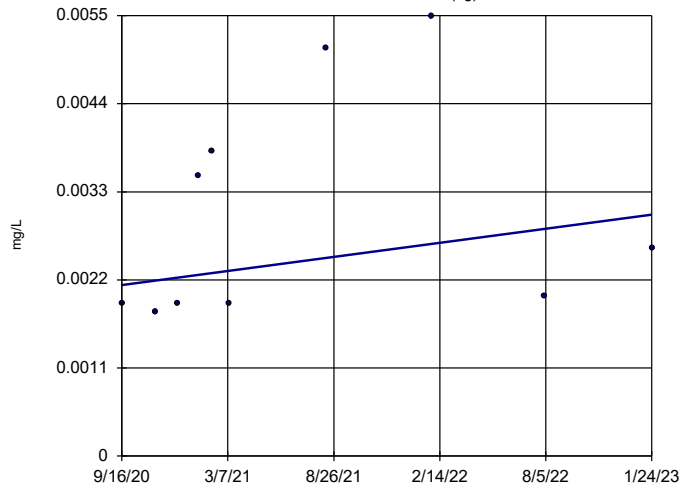


n = 10
 Slope = -0.0007215
 units per year.
 Mann-Kendall
 statistic = -20
 critical = -30
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Molybdenum Analysis Run 4/14/2023 1:14 PM View: Appendix IV - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-44D (bg)

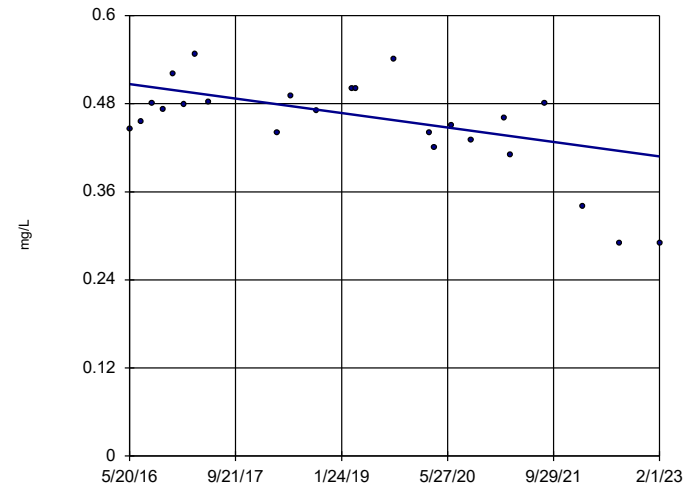


n = 10
 Slope = 0.000373
 units per year.
 Mann-Kendall
 statistic = 20
 critical = 30
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Molybdenum Analysis Run 4/14/2023 1:14 PM View: Appendix IV - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-8



n = 24
 Slope = -0.01469
 units per year.
 Mann-Kendall
 statistic = -99
 critical = -105
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

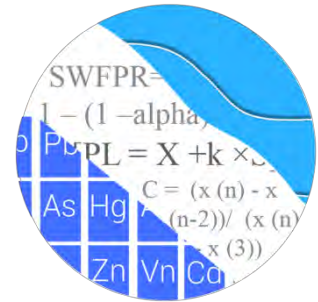
Constituent: Molybdenum Analysis Run 4/14/2023 1:14 PM View: Appendix IV - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

August 2023

GROUNDWATER STATS CONSULTING

January 31, 2024

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308



Re: Plant Hammond Ash Pond 1 (AP-1)
Statistical Analysis – August 2023 Sample Event

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2023 Semi-Annual Groundwater Detection and Assessment Monitoring statistical summary of groundwater data for Georgia Power Company's Plant Hammond AP-1. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began for the Coal Combustion Residuals (CCR) program in 2016, and at least 8 background samples have been collected at each of the upgradient and downgradient groundwater monitoring wells. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** HGWA-1, HGWA-2, HGWA-3, HGWA-43D, and HGWA-44D
- **Downgradient wells:** HGWC-7, HGWC-8, HGWC-9, HGWC-10, HGWC-11, HGWC-12, and HGWC-13
- **Assessment wells:** MW-5, MW-6, MW-7, MW-19, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D, and MW-29

Sampling at upgradient wells HGWA-43D and HGWA-44D began in September 2020 and all data from these wells are included in construction of interwell statistical limits.

Sampling at assessment wells began in March 2019 and data from these wells are plotted on the time series graphs and box plots, and are evaluated for Appendix IV constituents using confidence intervals which require a minimum sample size of n=4. Wells MW-30D and MW-40D were included as assessment wells during previous reporting periods, but were reclassified as "piezometers" based on the findings presented in the alternate source demonstration included as an appendix of the 2020 Annual Groundwater Monitoring & Corrective Action Report, submitted to Georgia EPD in January 2021. Because of this reclassification, data for wells MW-30D and MW-40D are not presented in this report.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting. The statistical analysis was performed according to the groundwater screening that was performed in April 2018 by GSC and approved by Dr. Cameron, PhD Statistician with MacStat Consulting and primary author of the USEPA Unified Guidance (2009).

The CCR program consists of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **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 and assessment 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 cases of lithium, historical reporting limits vary among the wells. Therefore, the reporting limits of 0.03 mg/L, respectively, were substituted across all wells, which is the most recent reporting limit provided by the laboratory. Note that the reporting limit for arsenic during this event increased to 0.01 mg/L; therefore, the historic reporting limit of 0.005 mg/L was substituted across all wells in order to maintain statistical limits that are conservative from a regulatory perspective.

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. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. No values were flagged as outliers (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Statistical Methods – Appendix III Parameters

The following Appendix III parameters are evaluated using interwell prediction limits combined with a 1-of-2 resample plan: boron, calcium, chloride, fluoride, pH, sulfate, 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 false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent 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.

- 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 for parametric limit. 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.

Note that values shown on data pages reflect raw data and any non-detects that have been substituted with one-half of the reporting limit will be shown as the original reporting limit.

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 interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, an earlier portion of data may require deselection prior to construction of limits to provide sensitive limits that will rapidly detect 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. When this step is required a summary of any adjusted records will be provided. No records were adjusted at this time.

Statistical Analysis of Appendix III Parameters – August 2023

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed for potential outliers during this analysis. No new values were flagged as shown in the outlier summary following this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed for Appendix III parameters using all historical upgradient well data through August 2023 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August 2023 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

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 a resample confirms the initial exceedance, a statistically significant increase (SSI) is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the

resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance.

When the August 2023 compliance data from downgradient wells were compared to interwell prediction limits, exceedances were identified for the following well/constituent pairs:

- Boron: HGWC-10, HGWC-12, HGWC-13, HGWC-7, HGWC-8, and HGWC-9
- Calcium: HGWC-10, HGWC-12, HGWC-13, and HGWC-9
- Chloride: HGWC-8 and HGWC-9
- Sulfate: HGWC-10, HGWC-11, HGWC-12, HGWC-13, HGWC-8, and HGWC-9
- TDS: HGWC-12, HGWC-13, and HGWC-9

A summary table of these findings is provided along with the prediction limits.

Trend Test Evaluation – Appendix III

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 E). Upgradient well data 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 variability in groundwater unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends:

- Boron: HGWA-2 (upgradient) and HGWC-7
- Calcium: HGWA-3 (upgradient)
- Chloride: HGWA-44D (upgradient)
- Sulfate: HGWA-2 (upgradient)

Decreasing trends:

- Boron: HGWA-43D (upgradient) HGWC-12, and HGWC-13
- Chloride: HGWA-3 (upgradient), HGWC-8, and HGWC-9
- Sulfate: HGWA-43D (upgradient) and HGWC-10
- TDS: HGWC-12

Statistical Methods – Appendix IV Parameters

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (Maximum Contaminant Limits (MCL) or CCR rule-specified limits) or site-specific limits that are based on upgradient background groundwater quality. Site-specific background limits are determined using tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals. The methods are described below.

Statistical Evaluation of Appendix IV Parameters – August 2023

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs containing 100% non-detects do not require analyses.

Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis. The highest value for lithium at upgradient well HGWA-44D was flagged in order to maintain conservative limits from a regulatory perspective. A summary of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell upper tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through August 2023 for Appendix IV constituents (Figure F). As mentioned above, a reporting limit of 0.005 mg/L was substituted for arsenic and a reporting limit of 0.03 mg/L was substituted for lithium. Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules

for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals using data through August 2023 were constructed for each of the Appendix IV constituents in each downgradient well and assessment wells with 4 or more samples.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals. 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 appropriate order statistics, depending on the sample size, 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. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Confidence intervals were compared to the GWPS prepared as described above (Figure H). Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of the confidence interval results, along with graphical comparison against GWPS follow this letter. Exceedances were noted for the following well/constituent pairs:

- Arsenic: HGWC-13
- Molybdenum: HGWC-8

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing trends:

- Arsenic: HGWC-13

Decreasing trends:

- Molybdenum: HGWA-43D (upgradient) and HGWC-8

Resample Reports – October 2023

Additional data was collected in October 2023 for barium at downgradient well MW-28D. A confidence interval was constructed for this well/constituent pair (Figure J). No exceedance was identified; therefore, no further action was required.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Hammond AP-1. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Abdul Diane
Groundwater Analyst



Andrew T. Collins
Project Manager

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 10/17/2023 1:17 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Antimony (mg/L)

HGWC-12, MW-19, MW-20, MW-25D, MW-5

Arsenic (mg/L)

HGWC-10, MW-24D, MW-7

Beryllium (mg/L)

HGWC-10, HGWC-12, HGWC-9, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-29, MW-5, MW-6

Cadmium (mg/L)

HGWC-13, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D, MW-29, MW-5, MW-6, MW-7

Cobalt (mg/L)

MW-25D, MW-5, MW-7

Lead (mg/L)

MW-25D

Lithium (mg/L)

HGWC-10, HGWC-11, MW-5, MW-6, MW-7

Mercury (mg/L)

HGWC-12, HGWC-7, HGWC-8, MW-19, MW-20, MW-24D, MW-26D, MW-27D, MW-28D, MW-5, MW-6, MW-7

Molybdenum (mg/L)

MW-20, MW-5

Selenium (mg/L)

HGWC-7, MW-20, MW-24D, MW-25D, MW-26D, MW-28D, MW-29, MW-6

Thallium (mg/L)

HGWC-10, HGWC-7, HGWC-9, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-5, MW-7

Appendix III Interwell Prediction Limits - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/17/2023, 12:59 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------------------|---------|------------|------------|-----------|---------|------|------|---------|-----------|-------|---------|-----------|-----------|-----------------------------|
| Boron (mg/L) | HGWC-10 | 0.55 | n/a | 8/10/2023 | 0.65 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-12 | 0.55 | n/a | 8/10/2023 | 1.4 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-13 | 0.55 | n/a | 8/12/2023 | 1 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-7 | 0.55 | n/a | 8/12/2023 | 0.82 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-8 | 0.55 | n/a | 8/12/2023 | 1.7 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-9 | 0.55 | n/a | 8/11/2023 | 2.1 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-10 | 138 | n/a | 8/10/2023 | 155 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-12 | 138 | n/a | 8/10/2023 | 156 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-13 | 138 | n/a | 8/12/2023 | 172 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-9 | 138 | n/a | 8/11/2023 | 168 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-8 | 44.8 | n/a | 8/12/2023 | 53.1 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-9 | 44.8 | n/a | 8/11/2023 | 78.9 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-10 | 89.9 | n/a | 8/10/2023 | 128 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-11 | 89.9 | n/a | 8/10/2023 | 190 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-12 | 89.9 | n/a | 8/10/2023 | 209 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-13 | 89.9 | n/a | 8/12/2023 | 347 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-8 | 89.9 | n/a | 8/12/2023 | 170 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-9 | 89.9 | n/a | 8/11/2023 | 197 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-12 | 632 | n/a | 8/10/2023 | 683 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-13 | 632 | n/a | 8/12/2023 | 803 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-9 | 632 | n/a | 8/11/2023 | 757 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |

Appendix III Interwell Prediction Limits - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/17/2023, 12:59 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|--------------------------------------|----------------|-------------|------------|------------------|-------------|------------|-----------|------------|------------|--------------|------------|------------|------------------|------------------------------------|
| Boron (mg/L) | HGWC-10 | 0.55 | n/a | 8/10/2023 | 0.65 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-11 | 0.55 | n/a | 8/10/2023 | 0.44 | No | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-12 | 0.55 | n/a | 8/10/2023 | 1.4 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-13 | 0.55 | n/a | 8/12/2023 | 1 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-7 | 0.55 | n/a | 8/12/2023 | 0.82 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-8 | 0.55 | n/a | 8/12/2023 | 1.7 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-9 | 0.55 | n/a | 8/11/2023 | 2.1 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-10 | 138 | n/a | 8/10/2023 | 155 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-11 | 138 | n/a | 8/10/2023 | 100 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-12 | 138 | n/a | 8/10/2023 | 156 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-13 | 138 | n/a | 8/12/2023 | 172 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-7 | 138 | n/a | 8/12/2023 | 101 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-8 | 138 | n/a | 8/12/2023 | 122 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-9 | 138 | n/a | 8/11/2023 | 168 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-10 | 44.8 | n/a | 8/10/2023 | 13.4 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-11 | 44.8 | n/a | 8/10/2023 | 6.5 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-12 | 44.8 | n/a | 8/10/2023 | 30.6 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-13 | 44.8 | n/a | 8/12/2023 | 15.3 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-7 | 44.8 | n/a | 8/12/2023 | 33.3 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-8 | 44.8 | n/a | 8/12/2023 | 53.1 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-9 | 44.8 | n/a | 8/11/2023 | 78.9 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-10 | 1.3 | n/a | 8/10/2023 | 0.05J | No | 99 | n/a | n/a | 27.27 | n/a | n/a | 0.0001973 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-11 | 1.3 | n/a | 8/10/2023 | 0.15 | No | 99 | n/a | n/a | 27.27 | n/a | n/a | 0.0001973 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-12 | 1.3 | n/a | 8/10/2023 | 0.17 | No | 99 | n/a | n/a | 27.27 | n/a | n/a | 0.0001973 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-13 | 1.3 | n/a | 8/12/2023 | 0.32 | No | 99 | n/a | n/a | 27.27 | n/a | n/a | 0.0001973 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-7 | 1.3 | n/a | 8/12/2023 | 0.071J | No | 99 | n/a | n/a | 27.27 | n/a | n/a | 0.0001973 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-8 | 1.3 | n/a | 8/12/2023 | 0.59 | No | 99 | n/a | n/a | 27.27 | n/a | n/a | 0.0001973 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-9 | 1.3 | n/a | 8/11/2023 | 0.12 | No | 99 | n/a | n/a | 27.27 | n/a | n/a | 0.0001973 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-10 | 8.25 | 4.9 | 8/10/2023 | 6.81 | No | 94 | n/a | n/a | 0 | n/a | n/a | 0.0004389 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-11 | 8.25 | 4.9 | 8/10/2023 | 5.9 | No | 94 | n/a | n/a | 0 | n/a | n/a | 0.0004389 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-12 | 8.25 | 4.9 | 8/10/2023 | 7.08 | No | 94 | n/a | n/a | 0 | n/a | n/a | 0.0004389 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-13 | 8.25 | 4.9 | 8/12/2023 | 6.89 | No | 94 | n/a | n/a | 0 | n/a | n/a | 0.0004389 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-7 | 8.25 | 4.9 | 8/12/2023 | 7.36 | No | 94 | n/a | n/a | 0 | n/a | n/a | 0.0004389 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-8 | 8.25 | 4.9 | 8/12/2023 | 6.84 | No | 94 | n/a | n/a | 0 | n/a | n/a | 0.0004389 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-9 | 8.25 | 4.9 | 8/11/2023 | 7.09 | No | 94 | n/a | n/a | 0 | n/a | n/a | 0.0004389 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-10 | 89.9 | n/a | 8/10/2023 | 128 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-11 | 89.9 | n/a | 8/10/2023 | 190 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-12 | 89.9 | n/a | 8/10/2023 | 209 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-13 | 89.9 | n/a | 8/12/2023 | 347 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-7 | 89.9 | n/a | 8/12/2023 | 84.2 | No | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-8 | 89.9 | n/a | 8/12/2023 | 170 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-9 | 89.9 | n/a | 8/11/2023 | 197 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-10 | 632 | n/a | 8/10/2023 | 504 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-11 | 632 | n/a | 8/10/2023 | 438 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-12 | 632 | n/a | 8/10/2023 | 683 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-13 | 632 | n/a | 8/12/2023 | 803 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-7 | 632 | n/a | 8/12/2023 | 378 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-8 | 632 | n/a | 8/12/2023 | 564 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-9 | 632 | n/a | 8/11/2023 | 757 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |

Appendix III Trend Tests - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/17/2023, 1:02 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------------------|---------------|-----------|-------|----------|------|----|------|-----------|-------|-------|--------|
| Boron (mg/L) | HGWA-2 (bg) | 0.002577 | 142 | 87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-43D (bg) | -0.007982 | -31 | -30 | Yes | 10 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-12 | -0.1831 | -117 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-13 | -0.2266 | -130 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-7 | 0.03451 | 105 | 98 | Yes | 23 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-3 (bg) | 1.995 | 116 | 92 | Yes | 22 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-3 (bg) | -0.1444 | -121 | -92 | Yes | 22 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-44D (bg) | 7.347 | 33 | 30 | Yes | 10 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWC-8 | -9.039 | -126 | -92 | Yes | 22 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWC-9 | -11.9 | -154 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-2 (bg) | 2.095 | 138 | 87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-43D (bg) | -3.197 | -35 | -30 | Yes | 10 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-10 | -10.13 | -97 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWC-12 | -46.96 | -98 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |

Appendix III Trend Tests - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/17/2023, 1:02 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|--------------------------------------|----------------------|------------------|-------------|------------|------------|-----------|----------|------------|------------|-------------|-----------|
| Boron (mg/L) | HGWA-1 (bg) | -0.0002605 | -21 | -92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-2 (bg) | 0.002577 | 142 | 87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-3 (bg) | 0.0003424 | 32 | 92 | No | 22 | 18.18 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-43D (bg) | -0.007982 | -31 | -30 | Yes | 10 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-44D (bg) | 0.08822 | 29 | 30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-10 | -0.03144 | -36 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-12 | -0.1831 | -117 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-13 | -0.2266 | -130 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-7 | 0.03451 | 105 | 98 | Yes | 23 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-8 | -0.003765 | -18 | -92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-9 | 0.05318 | 64 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-1 (bg) | 2.19 | 78 | 92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-2 (bg) | 1.082 | 82 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-3 (bg) | 1.995 | 116 | 92 | Yes | 22 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-43D (bg) | -3.038 | -25 | -30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-44D (bg) | -7.57 | -27 | -30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-10 | -4.775 | -74 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-12 | -3.992 | -61 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-13 | 16.21 | 70 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-9 | 0.5043 | 28 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-1 (bg) | 0.7747 | 82 | 92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-2 (bg) | 0 | 4 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-3 (bg) | -0.1444 | -121 | -92 | Yes | 22 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-43D (bg) | -0.1067 | -10 | -30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-44D (bg) | 7.347 | 33 | 30 | Yes | 10 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWC-8 | -9.039 | -126 | -92 | Yes | 22 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWC-9 | -11.9 | -154 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-1 (bg) | 1.304 | 38 | 92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-2 (bg) | 2.095 | 138 | 87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-3 (bg) | 0.1933 | 13 | 92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-43D (bg) | -3.197 | -35 | -30 | Yes | 10 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-44D (bg) | 1.358 | 7 | 30 | No | 10 | 10 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-10 | -10.13 | -97 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-11 | -9.651 | -52 | -87 | No | 21 | 4.762 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-12 | -9.599 | -68 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-13 | 40.99 | 68 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-8 | -5.775 | -44 | -92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-9 | -3.688 | -59 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWA-1 (bg) | 4.498 | 33 | 92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWA-2 (bg) | 3.534 | 35 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWA-3 (bg) | 1.304 | 29 | 92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWA-43D (bg) | -4.269 | -13 | -30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWA-44D (bg) | 32.23 | 25 | 30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWC-12 | -46.96 | -98 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWC-13 | 44.64 | 66 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWC-9 | -28.95 | -54 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |

Upper Tolerance Limits Summary Table

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/25/2023, 2:30 PM

| <u>Constituent</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bq N</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------------------|-------------------|-------------------|-------------|----------------|-------------|-------------|-------------|------------------|--------------|---------------------|
| Antimony (mg/L) | 0.003 | n/a | n/a | n/a | n/a | 88 | 81.82 | n/a | 0.01096 | NP Inter(NDs) |
| Arsenic (mg/L) | 0.005 | n/a | n/a | n/a | n/a | 94 | 68.09 | n/a | 0.008054 | NP Inter(NDs) |
| Barium (mg/L) | 0.46 | n/a | n/a | n/a | n/a | 94 | 0 | n/a | 0.008054 | NP Inter(normality) |
| Beryllium (mg/L) | 0.0005 | n/a | n/a | n/a | n/a | 88 | 78.41 | n/a | 0.01096 | NP Inter(NDs) |
| Cadmium (mg/L) | 0.0005 | n/a | n/a | n/a | n/a | 88 | 85.23 | n/a | 0.01096 | NP Inter(NDs) |
| Chromium (mg/L) | 0.0079 | n/a | n/a | n/a | n/a | 88 | 84.09 | n/a | 0.01096 | NP Inter(NDs) |
| Cobalt (mg/L) | 0.038 | n/a | n/a | n/a | n/a | 88 | 71.59 | n/a | 0.01096 | NP Inter(NDs) |
| Combined Radium 226 + 228 (pCi/L) | 4.36 | n/a | n/a | n/a | n/a | 94 | 0 | n/a | 0.008054 | NP Inter(normality) |
| Fluoride (mg/L) | 1.3 | n/a | n/a | n/a | n/a | 99 | 27.27 | n/a | 0.006232 | NP Inter(normality) |
| Lead (mg/L) | 0.001 | n/a | n/a | n/a | n/a | 85 | 70.59 | n/a | 0.01278 | NP Inter(NDs) |
| Lithium (mg/L) | 0.064 | n/a | n/a | n/a | n/a | 93 | 19.35 | n/a | 0.008478 | NP Inter(normality) |
| Mercury (mg/L) | 0.0002 | n/a | n/a | n/a | n/a | 66 | 96.97 | n/a | 0.03387 | NP Inter(NDs) |
| Molybdenum (mg/L) | 0.01 | n/a | n/a | n/a | n/a | 96 | 77.08 | n/a | 0.007269 | NP Inter(NDs) |
| Selenium (mg/L) | 0.005 | n/a | n/a | n/a | n/a | 94 | 96.81 | n/a | 0.008054 | NP Inter(NDs) |
| Thallium (mg/L) | 0.001 | n/a | n/a | n/a | n/a | 94 | 98.94 | n/a | 0.008054 | NP Inter(NDs) |

| PLANT HAMMOND AP-1 GWPS | | | | |
|--------------------------------|------------|---------------------------|-------------------------|-------------|
| Constituent Name | MCL | CCR-Rule Specified | Background Limit | GWPS |
| Antimony, Total (mg/L) | 0.006 | | 0.003 | 0.006 |
| Arsenic, Total (mg/L) | 0.01 | | 0.005 | 0.01 |
| Barium, Total (mg/L) | 2 | | 0.46 | 2 |
| Beryllium, Total (mg/L) | 0.004 | | 0.0005 | 0.004 |
| Cadmium, Total (mg/L) | 0.005 | | 0.0005 | 0.005 |
| Chromium, Total (mg/L) | 0.1 | | 0.0079 | 0.1 |
| Cobalt, Total (mg/L) | n/a | 0.006 | 0.038 | 0.038 |
| Combined Radium, Total (pCi/L) | 5 | | 4.36 | 5 |
| Fluoride, Total (mg/L) | 4 | | 1.3 | 4 |
| Lead, Total (mg/L) | n/a | 0.015 | 0.001 | 0.015 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.064 | 0.064 |
| Mercury, Total (mg/L) | 0.002 | | 0.0002 | 0.002 |
| Molybdenum, Total (mg/L) | n/a | 0.1 | 0.01 | 0.1 |
| Selenium, Total (mg/L) | 0.05 | | 0.005 | 0.05 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 0.002 |

**Grey cell indicates background is higher than MCL or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Confidence Intervals Summary Table - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/25/2023, 2:35 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. N | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------|---------|------------|------------|------------|--------|-----------|------|---------|-----------|-------|--------|
| Arsenic (mg/L) | HGWC-13 | 0.4387 | 0.3671 | 0.01 | Yes 24 | 0.07021 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-8 | 0.4809 | 0.4128 | 0.1 | Yes 25 | 0.0683 | 0 | None | No | 0.01 | Param. |

Confidence Intervals Summary Table - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/25/2023, 2:35 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------|----------------|---------------|---------------|-------------|------------|-----------|----------------|----------|--------------|-----------|-------------|----------------|
| Antimony (mg/L) | HGWC-10 | 0.003 | 0.0018 | 0.006 | No | 22 | 0.0005516 | 90.91 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-11 | 0.003 | 0.00038 | 0.006 | No | 22 | 0.0005586 | 95.45 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-13 | 0.003 | 0.00049 | 0.006 | No | 22 | 0.001246 | 68.18 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-7 | 0.003 | 0.0017 | 0.006 | No | 23 | 0.0006062 | 91.3 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-8 | 0.003 | 0.00064 | 0.006 | No | 22 | 0.0005032 | 95.45 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-9 | 0.003 | 0.00092 | 0.006 | No | 22 | 0.0009833 | 81.82 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-24D | 0.003 | 0.0017 | 0.006 | No | 13 | 0.0003606 | 92.31 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-26D | 0.003 | 0.002 | 0.006 | No | 13 | 0.0005267 | 84.62 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-27D | 0.003 | 0.0003 | 0.006 | No | 13 | 0.0014 | 53.85 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-28D | 0.003 | 0.0019 | 0.006 | No | 13 | 0.0003051 | 92.31 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-29 | 0.003 | 0.00094 | 0.006 | No | 13 | 0.0005713 | 92.31 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-6 | 0.003 | 0.0014 | 0.006 | No | 13 | 0.0004438 | 92.31 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-7 | 0.003 | 0.00086 | 0.006 | No | 13 | 0.0009336 | 69.23 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | HGWC-11 | 0.005 | 0.0018 | 0.01 | No | 24 | 0.001712 | 50 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | HGWC-12 | 0.00412 | 0.002863 | 0.01 | No | 24 | 0.001231 | 12.5 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | HGWC-13 | 0.4387 | 0.3671 | 0.01 | Yes | 24 | 0.07021 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | HGWC-7 | 0.005 | 0.0019 | 0.01 | No | 25 | 0.00062 | 96 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | HGWC-8 | 0.005 | 0.002 | 0.01 | No | 24 | 0.0006124 | 95.83 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | HGWC-9 | 0.005 | 0.0021 | 0.01 | No | 24 | 0.001545 | 83.33 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-19 | 0.005 | 0.00045 | 0.01 | No | 13 | 0.001262 | 92.31 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-20 | 0.005 | 0.00094 | 0.01 | No | 13 | 0.001712 | 76.92 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-25D | 0.005 | 0.001 | 0.01 | No | 13 | 0.001848 | 69.23 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-26D | 0.005 | 0.0008 | 0.01 | No | 13 | 0.001756 | 76.92 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-27D | 0.005 | 0.00069 | 0.01 | No | 13 | 0.001923 | 76.92 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-28D | 0.005 | 0.0011 | 0.01 | No | 13 | 0.001082 | 92.31 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-29 | 0.005 | 0.00037 | 0.01 | No | 13 | 0.001284 | 92.31 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-5 | 0.005 | 0.0013 | 0.01 | No | 13 | 0.001026 | 92.31 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-6 | 0.005 | 0.0034 | 0.01 | No | 13 | 0.0004438 | 92.31 | None | No | 0.01 | NP (NDs) |
| Barium (mg/L) | HGWC-10 | 0.08272 | 0.06105 | 2 | No | 24 | 0.02124 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-11 | 0.04951 | 0.03242 | 2 | No | 24 | 0.01881 | 0 | None | sqrt(x) | 0.01 | Param. |
| Barium (mg/L) | HGWC-12 | 0.123 | 0.083 | 2 | No | 24 | 0.02115 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | HGWC-13 | 0.08714 | 0.06691 | 2 | No | 24 | 0.01983 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-7 | 0.07342 | 0.06746 | 2 | No | 25 | 0.005986 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-8 | 0.07264 | 0.06129 | 2 | No | 24 | 0.01126 | 0 | None | sqrt(x) | 0.01 | Param. |
| Barium (mg/L) | HGWC-9 | 0.1176 | 0.09867 | 2 | No | 24 | 0.01858 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-19 | 0.0607 | 0.04361 | 2 | No | 13 | 0.0115 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-20 | 0.09542 | 0.08658 | 2 | No | 13 | 0.005944 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-24D | 0.081 | 0.048 | 2 | No | 13 | 0.0202 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | MW-25D | 0.6136 | 0.4295 | 2 | No | 13 | 0.1238 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-26D | 0.1178 | 0.07123 | 2 | No | 13 | 0.03134 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-27D | 1.2 | 0.94 | 2 | No | 13 | 0.1555 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | MW-28D | 0.9551 | 0.3145 | 2 | No | 13 | 0.5193 | 0 | None | sqrt(x) | 0.01 | Param. |
| Barium (mg/L) | MW-29 | 0.08303 | 0.07389 | 2 | No | 13 | 0.006146 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-5 | 0.05173 | 0.04488 | 2 | No | 13 | 0.004608 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-6 | 0.08986 | 0.07753 | 2 | No | 13 | 0.00829 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-7 | 0.06144 | 0.04979 | 2 | No | 13 | 0.007837 | 0 | None | No | 0.01 | Param. |
| Beryllium (mg/L) | HGWC-11 | 0.0005 | 0.00012 | 0.004 | No | 22 | 0.000194 | 63.64 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | HGWC-13 | 0.0005 | 0.000097 | 0.004 | No | 22 | 0.0002075 | 54.55 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | HGWC-7 | 0.0005 | 0.00019 | 0.004 | No | 23 | 0.0001336 | 86.96 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | HGWC-8 | 0.0005 | 0.000078 | 0.004 | No | 22 | 0.0002099 | 63.64 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | MW-19 | 0.0005 | 0.000058 | 0.004 | No | 13 | 0.0001226 | 92.31 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | MW-28D | 0.0005 | 0.000054 | 0.004 | No | 13 | 0.0001851 | 76.92 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | MW-7 | 0.0005 | 0.000051 | 0.004 | No | 13 | 0.0001245 | 92.31 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | HGWC-10 | 0.0005 | 0.000115 | 0.005 | No | 22 | 0.0001839 | 68.18 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | HGWC-11 | 0.0005 | 0.0001 | 0.005 | No | 22 | 0.000141 | 86.36 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | HGWC-12 | 0.0005 | 0.0003 | 0.005 | No | 22 | 0.0001288 | 81.82 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | HGWC-7 | 0.0005 | 0.0002 | 0.005 | No | 23 | 0.0001371 | 78.26 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | HGWC-8 | 0.0003 | 0.00017 | 0.005 | No | 22 | 0.0003292 | 4.545 | None | No | 0.01 | NP (normality) |
| Cadmium (mg/L) | HGWC-9 | 0.0005 | 0.0002 | 0.005 | No | 22 | 0.000134 | 86.36 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | MW-19 | 0.0003198 | 0.0001473 | 0.005 | No | 13 | 0.0002661 | 23.08 | Kaplan-Meier | ln(x) | 0.01 | Param. |
| Chromium (mg/L) | HGWC-10 | 0.02 | 0.0012 | 0.1 | No | 22 | 0.003466 | 86.36 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-11 | 0.005 | 0.0012 | 0.1 | No | 22 | 0.001516 | 86.36 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-12 | 0.005 | 0.0025 | 0.1 | No | 22 | 0.001353 | 86.36 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-13 | 0.005 | 0.00059 | 0.1 | No | 22 | 0.001575 | 86.36 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-7 | 0.005 | 0.0021 | 0.1 | No | 23 | 0.01408 | 69.57 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-8 | 0.005 | 0.0015 | 0.1 | No | 22 | 0.001635 | 81.82 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-9 | 0.005 | 0.0013 | 0.1 | No | 22 | 0.001625 | 81.82 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-19 | 0.005 | 0.00059 | 0.1 | No | 13 | 0.002083 | 53.85 | None | No | 0.01 | NP (NDs) |

Confidence Intervals Summary Table - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/25/2023, 2:35 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|---------|------------|------------|------------|------|----|-----------|-------|--------------|-----------|-------|----------------|
| Chromium (mg/L) | MW-20 | 0.005 | 0.00068 | 0.1 | No | 13 | 0.001915 | 76.92 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-24D | 0.005 | 0.0017 | 0.1 | No | 13 | 0.001502 | 84.62 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-25D | 0.005 | 0.0012 | 0.1 | No | 13 | 0.001543 | 84.62 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-26D | 0.005 | 0.001 | 0.1 | No | 13 | 0.001878 | 61.54 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-27D | 0.005 | 0.00082 | 0.1 | No | 13 | 0.001592 | 84.62 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-28D | 0.005 | 0.00081 | 0.1 | No | 13 | 0.001991 | 53.85 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-29 | 0.005 | 0.001 | 0.1 | No | 13 | 0.001109 | 92.31 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-5 | 0.003816 | 0.002199 | 0.1 | No | 13 | 0.001087 | 0 | None | No | 0.01 | Param. |
| Chromium (mg/L) | MW-6 | 0.005 | 0.00059 | 0.1 | No | 13 | 0.001849 | 76.92 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-7 | 0.0023 | 0.0015 | 0.1 | No | 13 | 0.001259 | 15.38 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | HGWC-10 | 0.005 | 0.0012 | 0.038 | No | 22 | 0.001933 | 72.73 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | HGWC-11 | 0.005 | 0.0014 | 0.038 | No | 22 | 0.001801 | 45.45 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | HGWC-12 | 0.0017 | 0.0012 | 0.038 | No | 22 | 0.001094 | 9.091 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | HGWC-13 | 0.0042 | 0.0026 | 0.038 | No | 22 | 0.003718 | 4.545 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | HGWC-7 | 0.001586 | 0.0007039 | 0.038 | No | 23 | 0.001483 | 13.04 | None | ln(x) | 0.01 | Param. |
| Cobalt (mg/L) | HGWC-8 | 0.0023 | 0.0019 | 0.038 | No | 22 | 0.003091 | 9.091 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | HGWC-9 | 0.0007 | 0.00053 | 0.038 | No | 22 | 0.00131 | 9.091 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | MW-19 | 0.04072 | 0.02913 | 0.038 | No | 13 | 0.007794 | 0 | None | No | 0.01 | Param. |
| Cobalt (mg/L) | MW-20 | 0.005 | 0.0011 | 0.038 | No | 13 | 0.001082 | 92.31 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MW-24D | 0.005 | 0.00056 | 0.038 | No | 13 | 0.001921 | 76.92 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MW-26D | 0.005 | 0.00044 | 0.038 | No | 13 | 0.002295 | 38.46 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | MW-27D | 0.005 | 0.0004 | 0.038 | No | 13 | 0.002057 | 76.92 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MW-28D | 0.005 | 0.00093 | 0.038 | No | 13 | 0.001129 | 92.31 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MW-29 | 0.001421 | 0.0007121 | 0.038 | No | 13 | 0.0005295 | 7.692 | None | sqrt(x) | 0.01 | Param. |
| Cobalt (mg/L) | MW-6 | 0.00094 | 0.00041 | 0.038 | No | 13 | 0.001694 | 15.38 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | HGWC-10 | 1.056 | 0.6144 | 5 | No | 24 | 0.4326 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-11 | 1.106 | 0.6289 | 5 | No | 24 | 0.4677 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-12 | 1.009 | 0.5651 | 5 | No | 24 | 0.4347 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-13 | 0.9631 | 0.5954 | 5 | No | 24 | 0.3603 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-7 | 0.8357 | 0.428 | 5 | No | 25 | 0.4663 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-8 | 0.9454 | 0.6612 | 5 | No | 24 | 0.2785 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-9 | 0.8903 | 0.543 | 5 | No | 24 | 0.3403 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-19 | 0.9195 | 0.413 | 5 | No | 13 | 0.3406 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-20 | 0.9599 | 0.396 | 5 | No | 13 | 0.3792 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-24D | 0.5693 | 0.1574 | 5 | No | 13 | 0.3358 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-25D | 1.252 | 0.8297 | 5 | No | 13 | 0.2841 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-26D | 0.8929 | 0.1581 | 5 | No | 13 | 0.4941 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-27D | 1.479 | 0.7939 | 5 | No | 13 | 0.51 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-28D | 1.616 | 0.6323 | 5 | No | 13 | 0.6615 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-29 | 0.8957 | 0.3631 | 5 | No | 13 | 0.3582 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-5 | 0.9444 | 0.5523 | 5 | No | 13 | 0.2637 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-6 | 0.872 | 0.493 | 5 | No | 13 | 0.4313 | 0 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | MW-7 | 1.127 | 0.4685 | 5 | No | 13 | 0.4429 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-10 | 0.1782 | 0.07724 | 4 | No | 25 | 0.1313 | 16 | Kaplan-Meier | x^(1/3) | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-11 | 0.3899 | 0.2407 | 4 | No | 25 | 0.1605 | 0 | None | sqrt(x) | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-12 | 0.31 | 0.17 | 4 | No | 25 | 0.2299 | 4 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | HGWC-13 | 0.6761 | 0.4894 | 4 | No | 25 | 0.1872 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-7 | 0.15 | 0.083 | 4 | No | 27 | 0.1041 | 7.407 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | HGWC-8 | 0.6099 | 0.4748 | 4 | No | 26 | 0.1673 | 0 | None | ln(x) | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-9 | 0.233 | 0.103 | 4 | No | 25 | 0.1473 | 8 | None | sqrt(x) | 0.01 | Param. |
| Fluoride (mg/L) | MW-19 | 0.2368 | 0.108 | 4 | No | 13 | 0.1242 | 0 | None | ln(x) | 0.01 | Param. |
| Fluoride (mg/L) | MW-20 | 0.1 | 0.074 | 4 | No | 13 | 0.01084 | 76.92 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | MW-24D | 0.09377 | 0.05216 | 4 | No | 13 | 0.03452 | 30.77 | Kaplan-Meier | sqrt(x) | 0.01 | Param. |
| Fluoride (mg/L) | MW-25D | 1.7 | 1.5 | 4 | No | 13 | 0.1951 | 0 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | MW-26D | 0.1221 | 0.05944 | 4 | No | 13 | 0.04213 | 7.692 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | MW-27D | 0.3 | 0.24 | 4 | No | 13 | 0.05003 | 0 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | MW-28D | 0.2443 | 0.1696 | 4 | No | 13 | 0.05023 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | MW-29 | 0.18 | 0.068 | 4 | No | 13 | 0.03156 | 61.54 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | MW-5 | 0.08458 | 0.05951 | 4 | No | 13 | 0.01921 | 15.38 | Kaplan-Meier | No | 0.01 | Param. |
| Fluoride (mg/L) | MW-6 | 0.15 | 0.055 | 4 | No | 13 | 0.0496 | 15.38 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | MW-7 | 0.17 | 0.069 | 4 | No | 13 | 0.02567 | 69.23 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-10 | 0.001 | 0.00005 | 0.015 | No | 20 | 0.0002124 | 95 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-11 | 0.001 | 0.0003 | 0.015 | No | 20 | 0.0003911 | 70 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-12 | 0.001 | 0.00043 | 0.015 | No | 20 | 0.0003856 | 75 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-13 | 0.001 | 0.00015 | 0.015 | No | 20 | 0.0004088 | 70 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-7 | 0.001 | 0.0001 | 0.015 | No | 21 | 0.0004263 | 57.14 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-8 | 0.001 | 0.0002 | 0.015 | No | 20 | 0.000357 | 80 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-9 | 0.001 | 0.0002 | 0.015 | No | 20 | 0.0004221 | 60 | None | No | 0.01 | NP (NDs) |

Confidence Intervals Summary Table - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/25/2023, 2:35 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|--------------------------|---------------|---------------|---------------|------------|------------|-----------|---------------|----------|--------------|-----------|-------------|----------------|
| Lead (mg/L) | MW-19 | 0.001 | 0.000071 | 0.015 | No | 11 | 0.0004665 | 63.64 | None | No | 0.006 | NP (NDs) |
| Lead (mg/L) | MW-20 | 0.001 | 0.0001 | 0.015 | No | 11 | 0.0004502 | 63.64 | None | No | 0.006 | NP (NDs) |
| Lead (mg/L) | MW-24D | 0.001 | 0.000042 | 0.015 | No | 11 | 0.0004763 | 54.55 | None | No | 0.006 | NP (NDs) |
| Lead (mg/L) | MW-26D | 0.001 | 0.0001 | 0.015 | No | 11 | 0.0003681 | 81.82 | None | No | 0.006 | NP (NDs) |
| Lead (mg/L) | MW-27D | 0.001 | 0.00043 | 0.015 | No | 11 | 0.0002989 | 81.82 | None | No | 0.006 | NP (NDs) |
| Lead (mg/L) | MW-28D | 0.001 | 0.00018 | 0.015 | No | 11 | 0.0003867 | 54.55 | None | No | 0.006 | NP (NDs) |
| Lead (mg/L) | MW-29 | 0.001 | 0.00009 | 0.015 | No | 11 | 0.0004281 | 72.73 | None | No | 0.006 | NP (NDs) |
| Lead (mg/L) | MW-5 | 0.001 | 0.001 | 0.015 | No | 11 | 0.0002873 | 90.91 | None | No | 0.006 | NP (NDs) |
| Lead (mg/L) | MW-6 | 0.001 | 0.000084 | 0.015 | No | 11 | 0.0004433 | 63.64 | None | No | 0.006 | NP (NDs) |
| Lead (mg/L) | MW-7 | 0.001 | 0.001 | 0.015 | No | 11 | 0.0002828 | 90.91 | None | No | 0.006 | NP (NDs) |
| Lithium (mg/L) | HGWC-12 | 0.01036 | 0.007988 | 0.064 | No | 24 | 0.002326 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | HGWC-13 | 0.03837 | 0.03131 | 0.064 | No | 24 | 0.006919 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | HGWC-7 | 0.0026 | 0.0021 | 0.064 | No | 25 | 0.004541 | 4 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | HGWC-8 | 0.0029 | 0.0025 | 0.064 | No | 24 | 0.004593 | 4.167 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | HGWC-9 | 0.0044 | 0.004 | 0.064 | No | 24 | 0.004295 | 4.167 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | MW-19 | 0.01289 | 0.008115 | 0.064 | No | 13 | 0.003208 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MW-20 | 0.03 | 0.00082 | 0.064 | No | 13 | 0.01389 | 30.77 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | MW-24D | 0.002867 | 0.002564 | 0.064 | No | 13 | 0.0002035 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MW-25D | 0.04964 | 0.04206 | 0.064 | No | 13 | 0.005097 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MW-26D | 0.0041 | 0.0031 | 0.064 | No | 13 | 0.007354 | 0 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | MW-27D | 0.008425 | 0.006344 | 0.064 | No | 13 | 0.001399 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MW-28D | 0.01331 | 0.007708 | 0.064 | No | 13 | 0.003765 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MW-29 | 0.002328 | 0.00201 | 0.064 | No | 13 | 0.0002136 | 0 | None | No | 0.01 | Param. |
| Mercury (mg/L) | HGWC-10 | 0.0002 | 0.00005 | 0.002 | No | 16 | 0.0000375 | 93.75 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | HGWC-11 | 0.0002 | 0.00005 | 0.002 | No | 16 | 0.0000375 | 93.75 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | HGWC-13 | 0.0002 | 0.00005 | 0.002 | No | 16 | 0.00005297 | 87.5 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | HGWC-9 | 0.0002 | 0.00004 | 0.002 | No | 16 | 0.00004 | 93.75 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | MW-25D | 0.0002 | 0.00013 | 0.002 | No | 7 | 0.00002646 | 85.71 | None | No | 0.008 | NP (NDs) |
| Mercury (mg/L) | MW-29 | 0.0002 | 0.00017 | 0.002 | No | 7 | 0.00001134 | 85.71 | None | No | 0.008 | NP (NDs) |
| Molybdenum (mg/L) | HGWC-10 | 0.01 | 0.0014 | 0.1 | No | 24 | 0.004388 | 58.33 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | HGWC-11 | 0.02588 | 0.01687 | 0.1 | No | 24 | 0.008837 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-12 | 0.04919 | 0.04574 | 0.1 | No | 24 | 0.003379 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-13 | 0.03496 | 0.0289 | 0.1 | No | 24 | 0.005941 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-7 | 0.04238 | 0.03571 | 0.1 | No | 26 | 0.006839 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-8 | 0.4809 | 0.4128 | 0.1 | Yes | 25 | 0.0683 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-9 | 0.033 | 0.0236 | 0.1 | No | 24 | 0.09178 | 0 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | MW-19 | 0.05113 | 0.02656 | 0.1 | No | 13 | 0.01652 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-24D | 0.01 | 0.0008 | 0.1 | No | 13 | 0.004341 | 30.77 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | MW-25D | 0.01 | 0.0022 | 0.1 | No | 13 | 0.003176 | 84.62 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | MW-26D | 0.02349 | 0.01194 | 0.1 | No | 14 | 0.008152 | 7.143 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-27D | 0.003468 | 0.001448 | 0.1 | No | 13 | 0.001521 | 7.692 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum (mg/L) | MW-28D | 0.01874 | 0.006572 | 0.1 | No | 13 | 0.008179 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-29 | 0.00326 | 0.002525 | 0.1 | No | 13 | 0.0004941 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-6 | 0.00269 | 0.00231 | 0.1 | No | 13 | 0.000255 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-7 | 0.01 | 0.0014 | 0.1 | No | 13 | 0.004122 | 38.46 | None | No | 0.01 | NP (normality) |
| Selenium (mg/L) | HGWC-10 | 0.005 | 0.0031 | 0.05 | No | 24 | 0.001249 | 66.67 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-11 | 0.01372 | 0.006577 | 0.05 | No | 24 | 0.007001 | 0 | None | No | 0.01 | Param. |
| Selenium (mg/L) | HGWC-12 | 0.005 | 0.0011 | 0.05 | No | 24 | 0.0007961 | 95.83 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-13 | 0.005 | 0.0016 | 0.05 | No | 24 | 0.001179 | 91.67 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-8 | 0.005 | 0.0024 | 0.05 | No | 24 | 0.0005307 | 95.83 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-9 | 0.005 | 0.0037 | 0.05 | No | 24 | 0.0002654 | 95.83 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MW-19 | 0.004794 | 0.002441 | 0.05 | No | 13 | 0.001637 | 15.38 | Kaplan-Meier | No | 0.01 | Param. |
| Selenium (mg/L) | MW-27D | 0.005 | 0.00012 | 0.05 | No | 13 | 0.001353 | 92.31 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MW-5 | 0.003635 | 0.002381 | 0.05 | No | 13 | 0.0008431 | 0 | None | No | 0.01 | Param. |
| Selenium (mg/L) | MW-7 | 0.005 | 0.0015 | 0.05 | No | 13 | 0.001707 | 53.85 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | HGWC-11 | 0.001 | 0.00008 | 0.002 | No | 24 | 0.0002597 | 91.67 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | HGWC-12 | 0.001 | 0.0002 | 0.002 | No | 24 | 0.000397 | 75 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | HGWC-13 | 0.0004223 | 0.0003342 | 0.002 | No | 24 | 0.00008631 | 8.333 | None | No | 0.01 | Param. |
| Thallium (mg/L) | HGWC-8 | 0.001 | 0.00011 | 0.002 | No | 24 | 0.0004205 | 70.83 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | MW-19 | 0.001 | 0.00023 | 0.002 | No | 13 | 0.0003787 | 38.46 | None | No | 0.01 | NP (normality) |
| Thallium (mg/L) | MW-28D | 0.001 | 0.000092 | 0.002 | No | 13 | 0.0002518 | 92.31 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | MW-29 | 0.001 | 0.000064 | 0.002 | No | 13 | 0.0002596 | 92.31 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | MW-6 | 0.001 | 0.000082 | 0.002 | No | 13 | 0.0002546 | 92.31 | None | No | 0.01 | NP (NDs) |

Appendix IV Trend Tests - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/25/2023, 2:37 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------|---------------|------------|-------|----------|------|----|------|-----------|-------|-------|--------|
| Arsenic (mg/L) | HGWC-13 | 0.01769 | 108 | 81 | Yes | 24 | 0 | n/a | n/a | 0.05 | NP |
| Molybdenum (mg/L) | HGWA-43D (bg) | -0.0009202 | -30 | -27 | Yes | 11 | 0 | n/a | n/a | 0.05 | NP |
| Molybdenum (mg/L) | HGWC-8 | -0.01769 | -118 | -85 | Yes | 25 | 0 | n/a | n/a | 0.05 | NP |

Appendix IV Trend Tests - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/25/2023, 2:37 PM

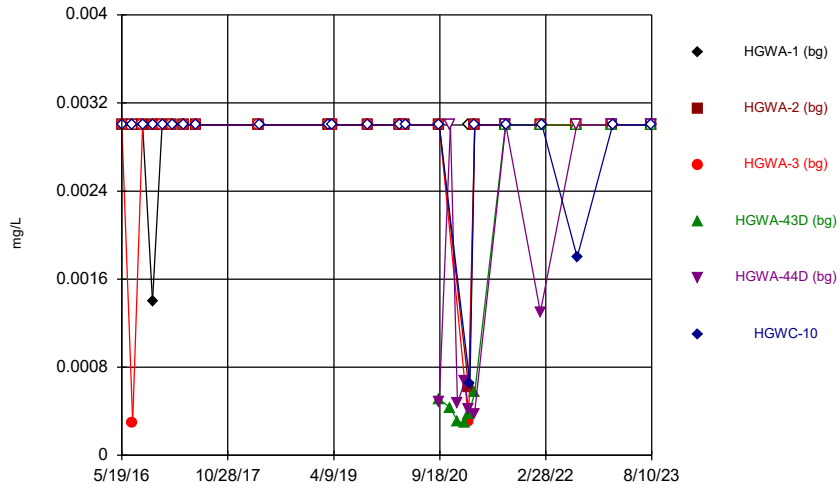
| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------------|----------------------|-------------------|--------------|-----------------|-------------|-----------|-------------|------------------|--------------|--------------|---------------|
| Arsenic (mg/L) | HGWA-1 (bg) | 0 | -8 | -81 | No | 24 | 87.5 | n/a | n/a | 0.05 | NP |
| Arsenic (mg/L) | HGWA-2 (bg) | 0 | 43 | 81 | No | 24 | 62.5 | n/a | n/a | 0.05 | NP |
| Arsenic (mg/L) | HGWA-3 (bg) | 0 | 31 | 81 | No | 24 | 62.5 | n/a | n/a | 0.05 | NP |
| Arsenic (mg/L) | HGWA-43D (bg) | 0.0004771 | 11 | 27 | No | 11 | 45.45 | n/a | n/a | 0.05 | NP |
| Arsenic (mg/L) | HGWA-44D (bg) | 0 | -7 | -27 | No | 11 | 72.73 | n/a | n/a | 0.05 | NP |
| Arsenic (mg/L) | HGWC-13 | 0.01769 | 108 | 81 | Yes | 24 | 0 | n/a | n/a | 0.05 | NP |
| Molybdenum (mg/L) | HGWA-1 (bg) | 0 | 0 | 85 | No | 25 | 100 | n/a | n/a | 0.05 | NP |
| Molybdenum (mg/L) | HGWA-2 (bg) | 0 | 0 | 81 | No | 24 | 100 | n/a | n/a | 0.05 | NP |
| Molybdenum (mg/L) | HGWA-3 (bg) | 0 | 0 | 85 | No | 25 | 100 | n/a | n/a | 0.05 | NP |
| Molybdenum (mg/L) | HGWA-43D (bg) | -0.0009202 | -30 | -27 | Yes | 11 | 0 | n/a | n/a | 0.05 | NP |
| Molybdenum (mg/L) | HGWA-44D (bg) | 0.0001159 | 10 | 27 | No | 11 | 0 | n/a | n/a | 0.05 | NP |
| Molybdenum (mg/L) | HGWC-8 | -0.01769 | -118 | -85 | Yes | 25 | 0 | n/a | n/a | 0.05 | NP |

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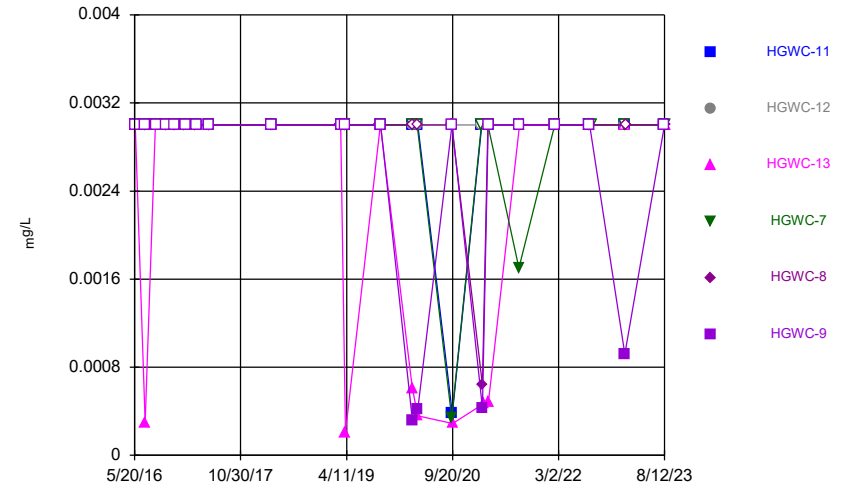
FIGURE A.

Time Series



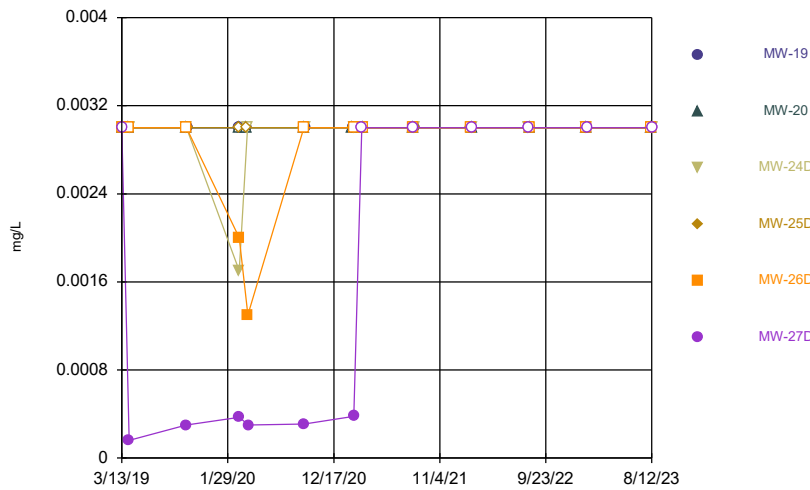
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Plant Hammond Client: Southern Company Data: Hamond AP-1

Time Series



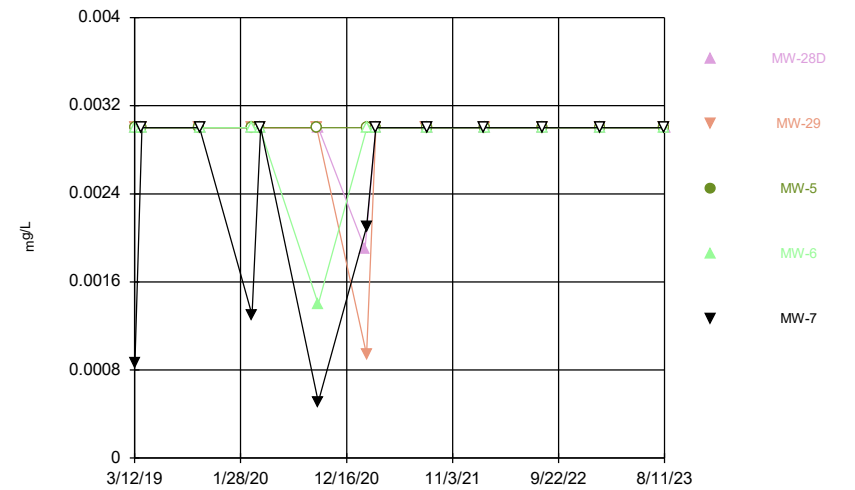
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Plant Hammond Client: Southern Company Data: Hamond AP-1

Time Series



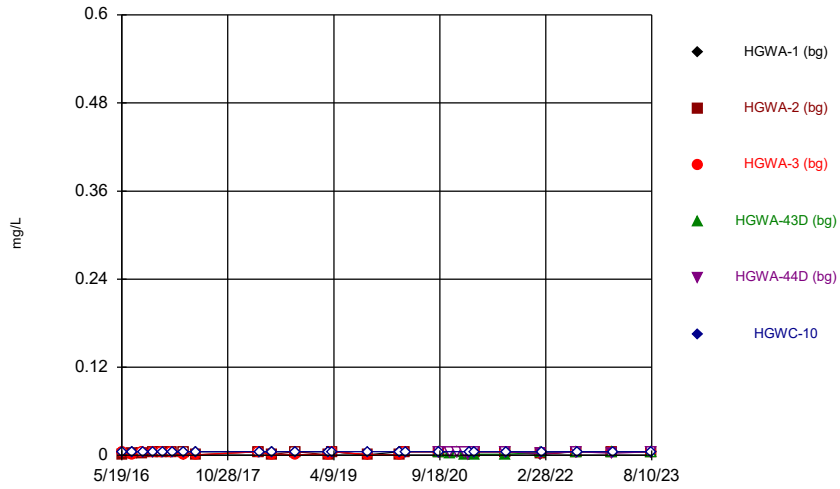
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Time Series



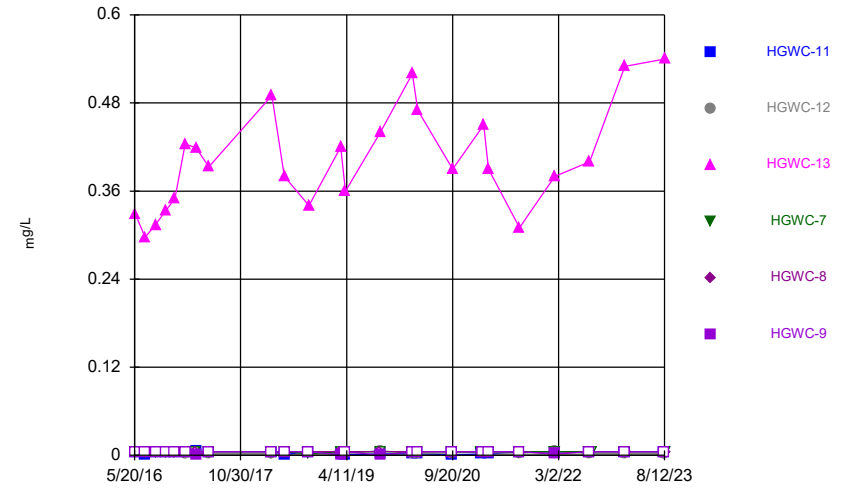
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Plant Hammond Client: Southern Company Data: Hamond AP-1

Time Series



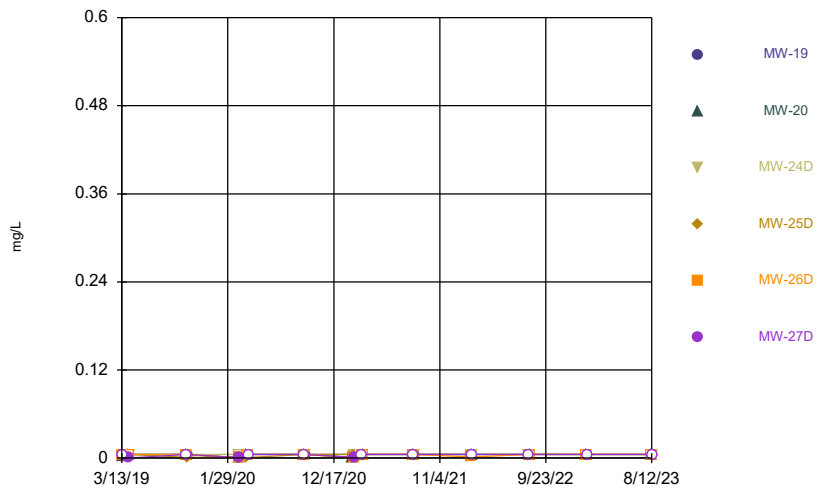
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



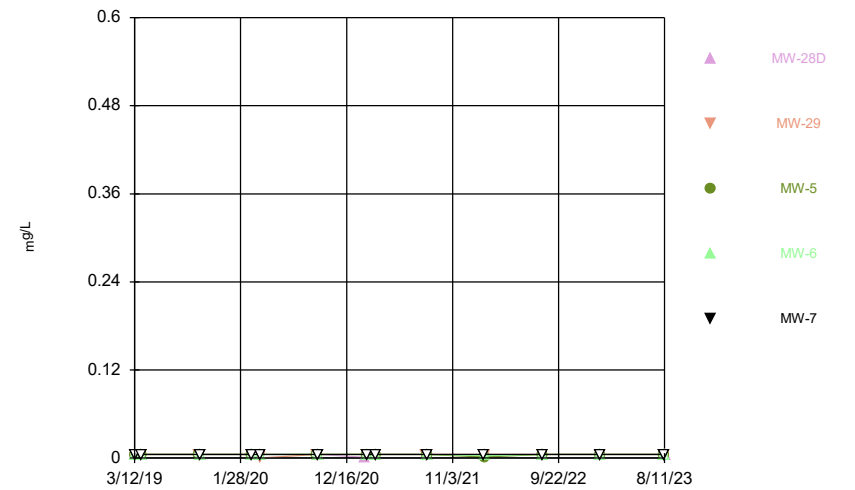
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Time Series



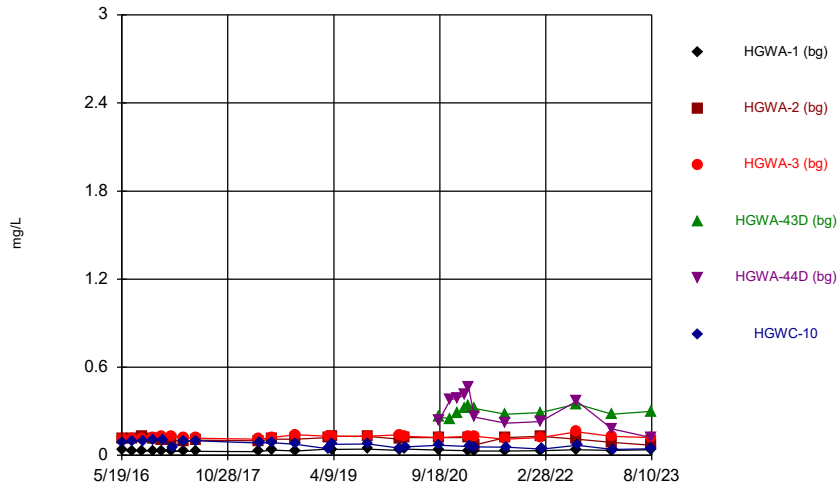
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



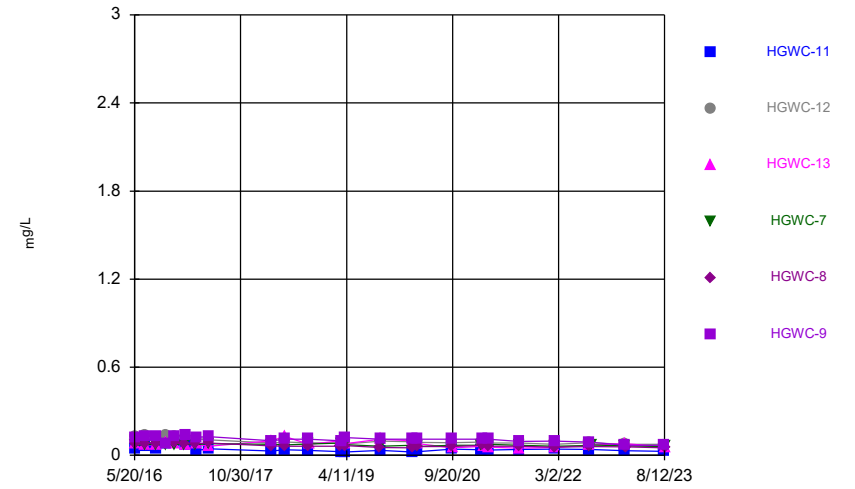
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



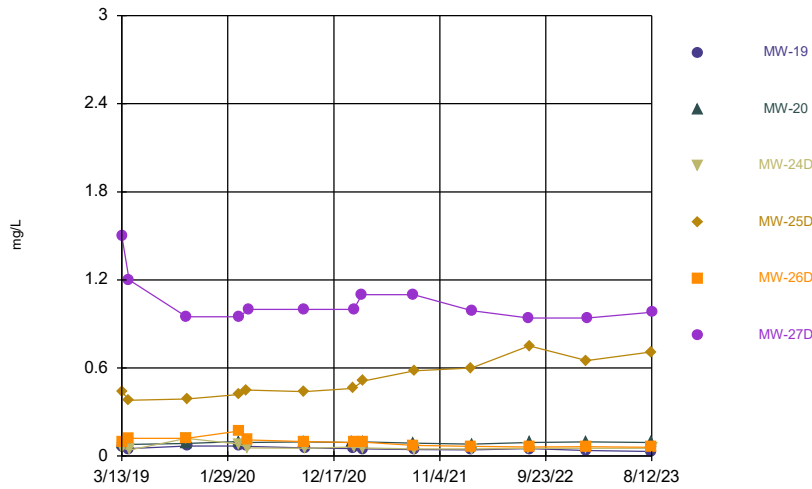
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



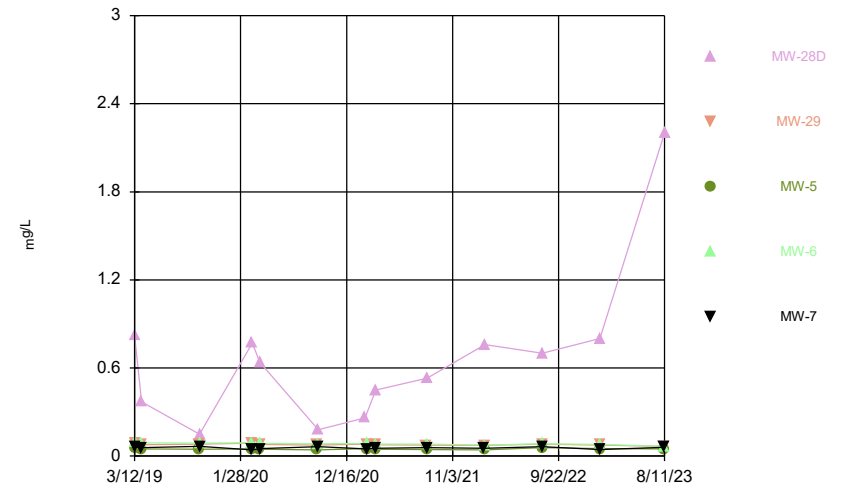
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



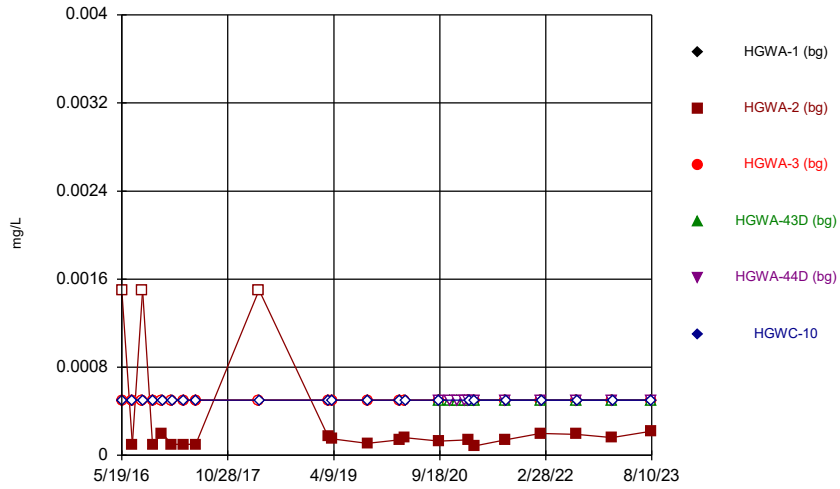
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Time Series



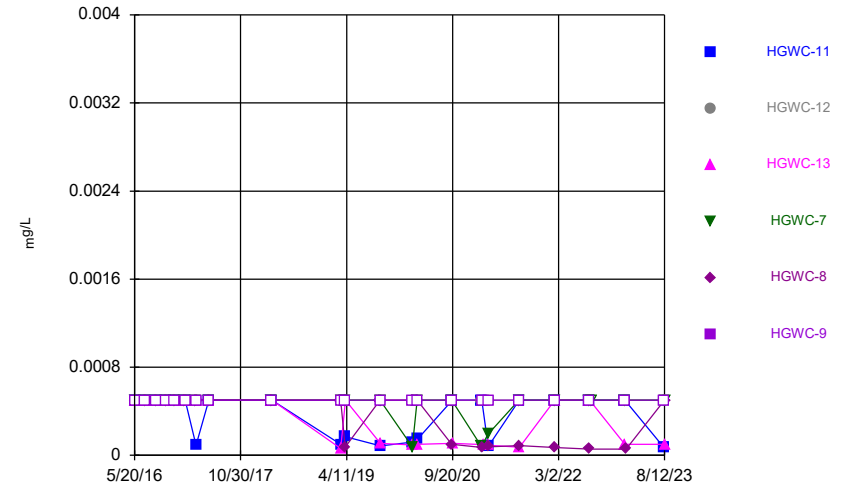
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Time Series



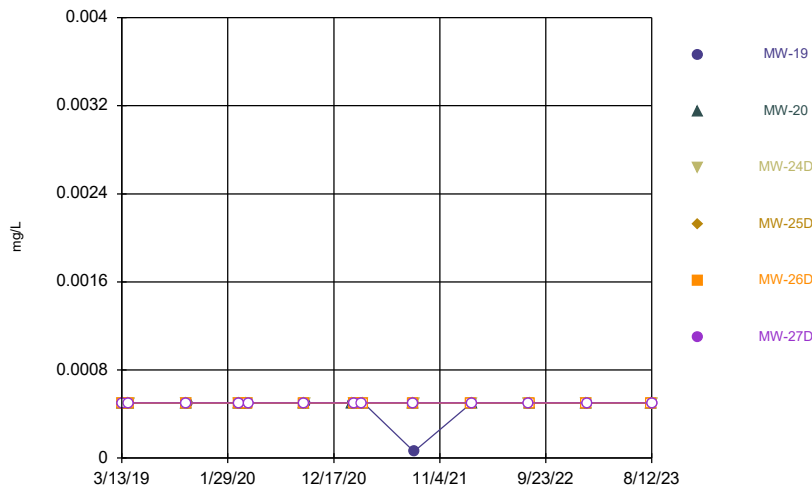
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Time Series



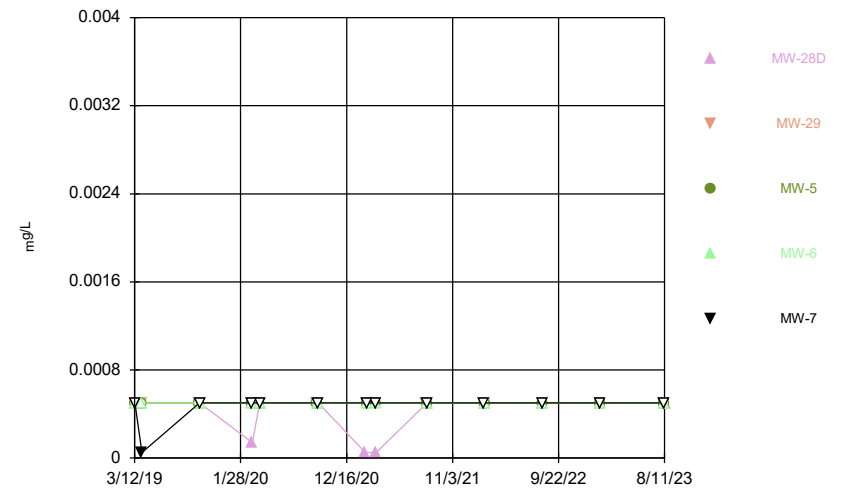
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Time Series



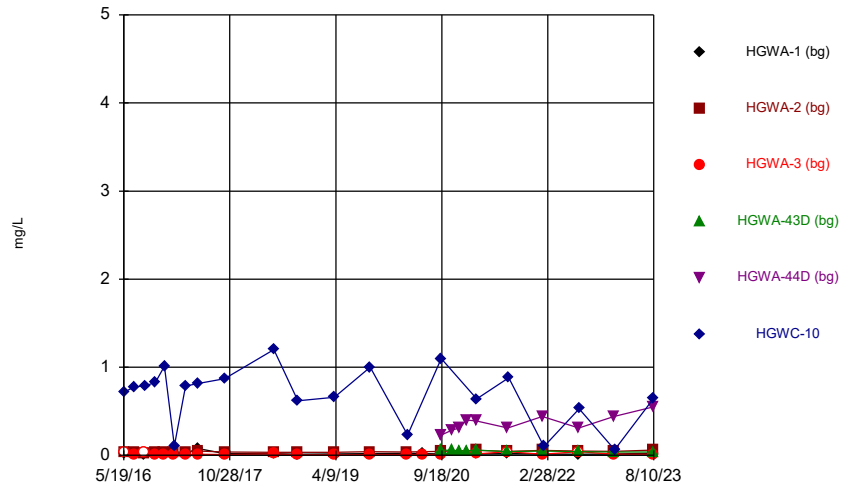
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Time Series



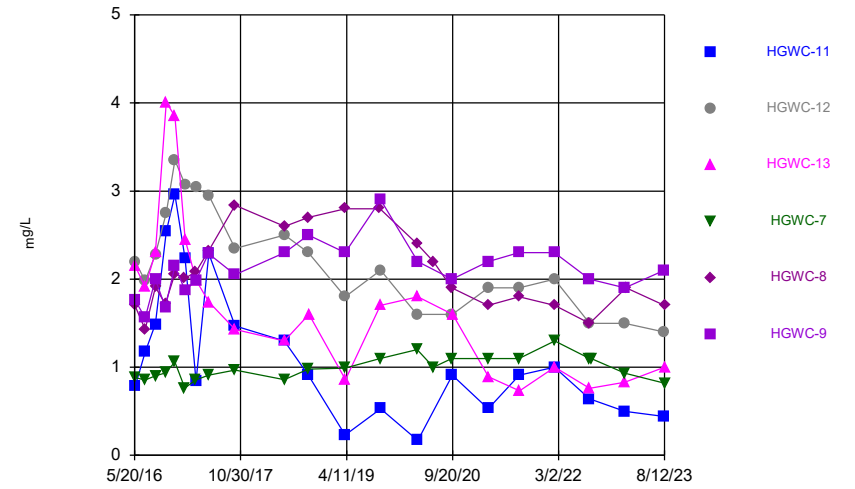
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Time Series



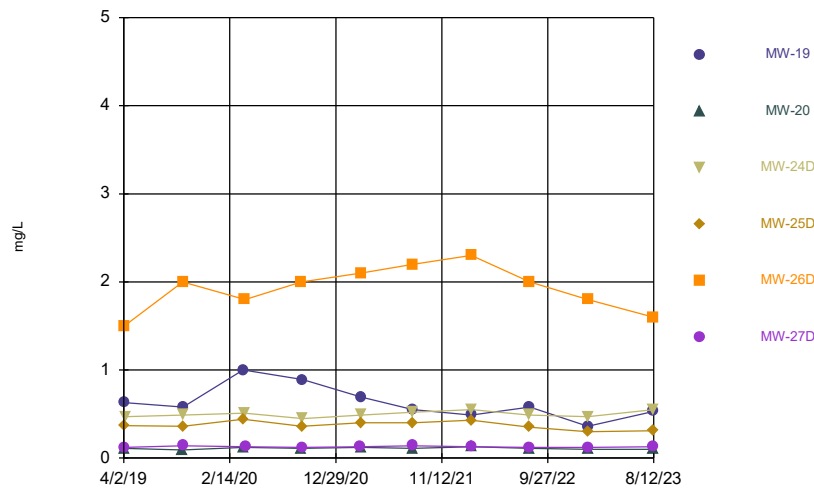
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Time Series



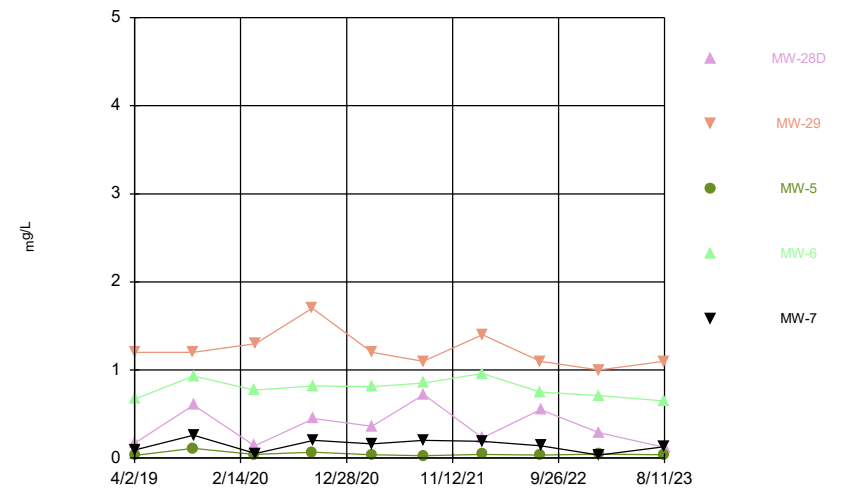
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Time Series



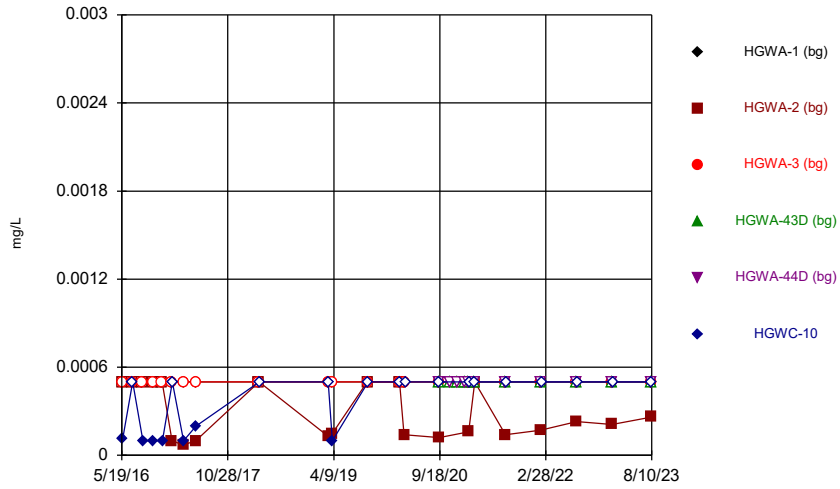
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Time Series



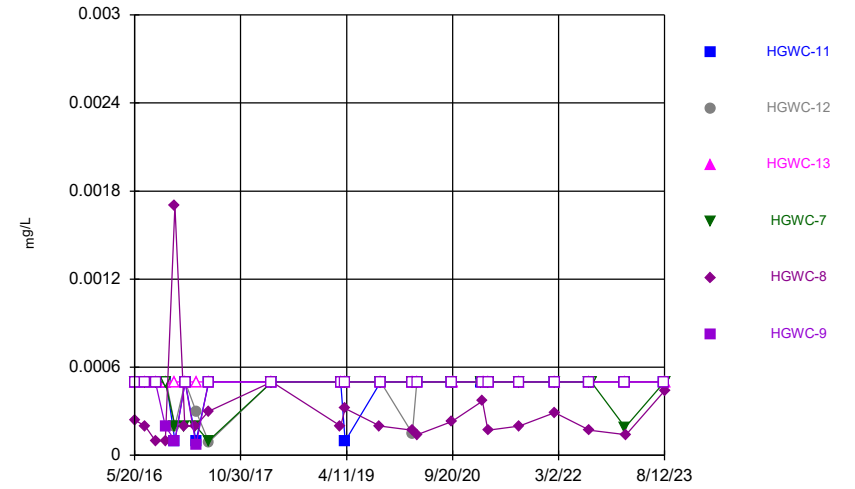
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Time Series



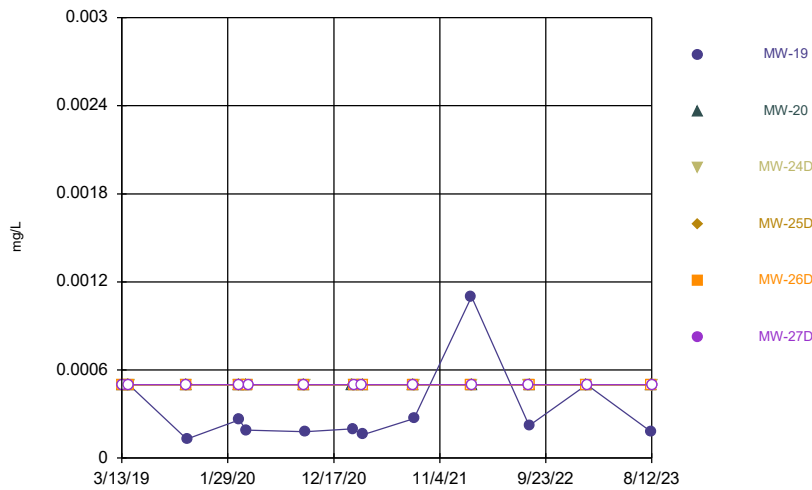
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Time Series



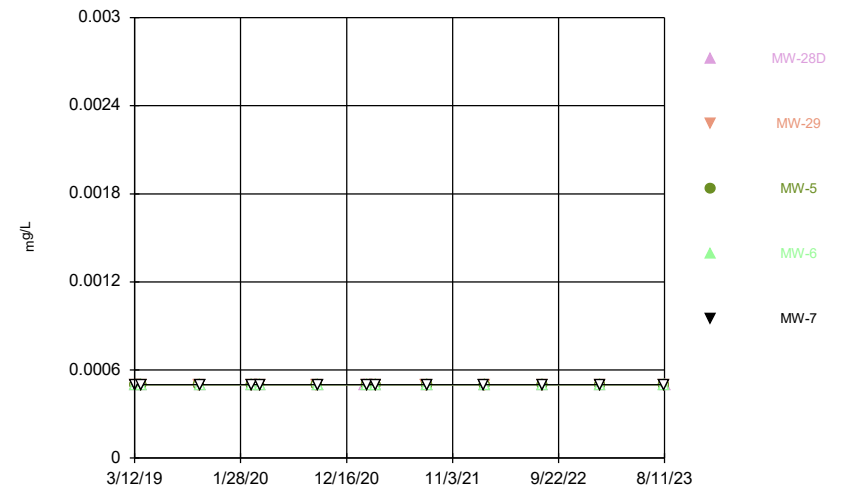
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Time Series



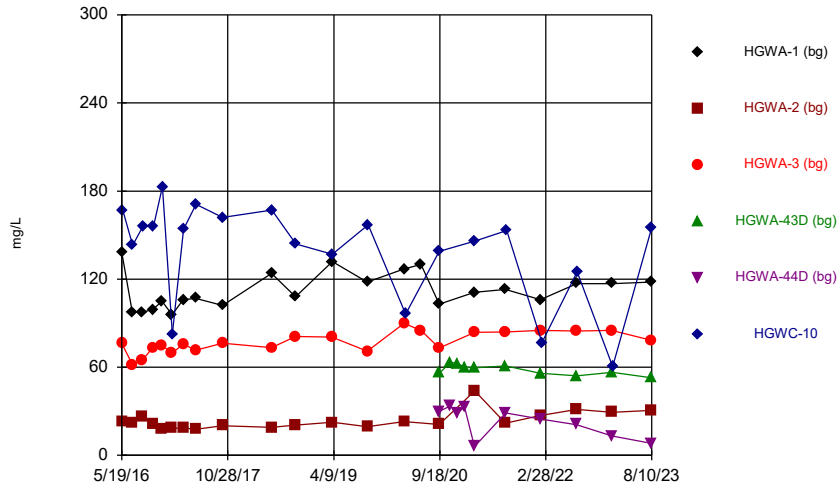
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Time Series



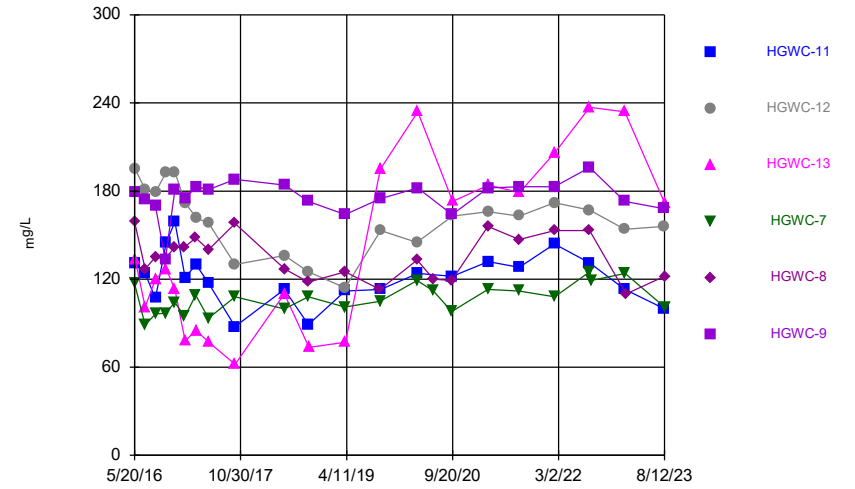
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Time Series



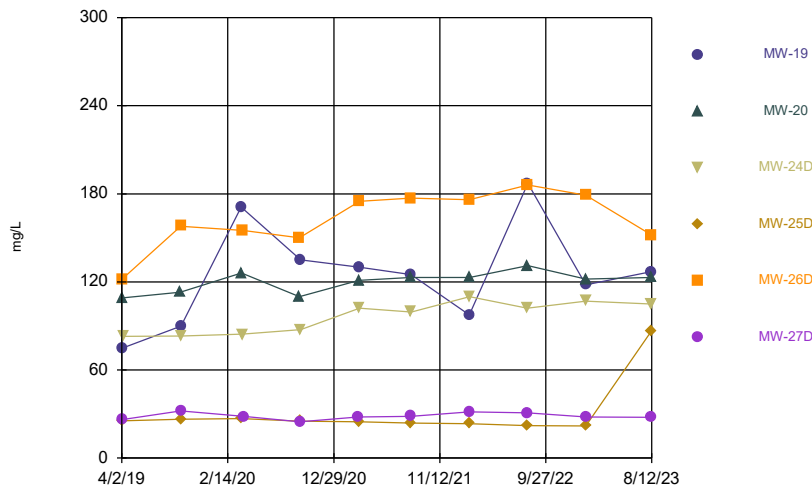
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Time Series



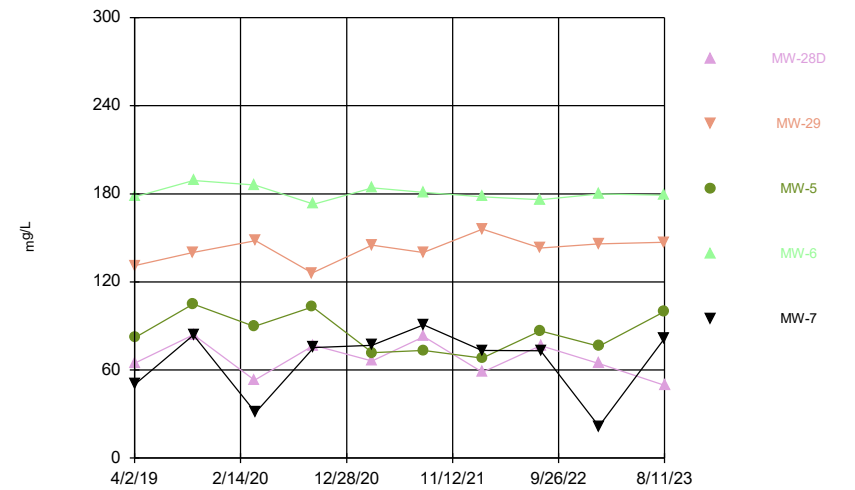
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Time Series



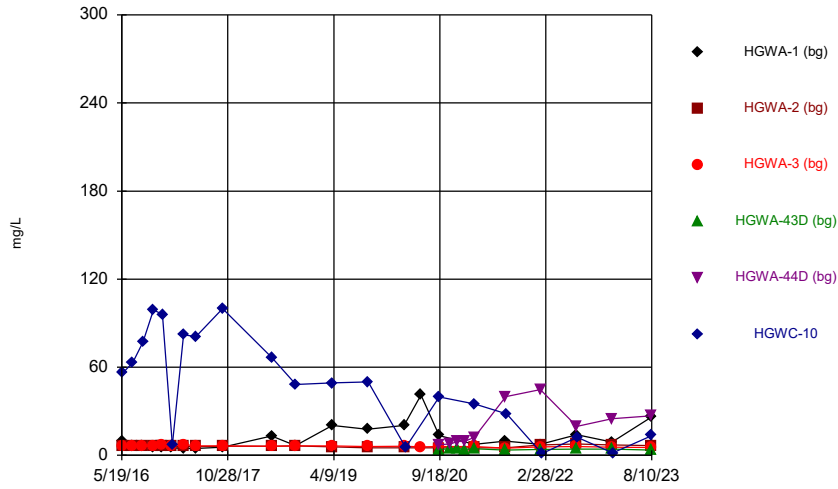
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Time Series



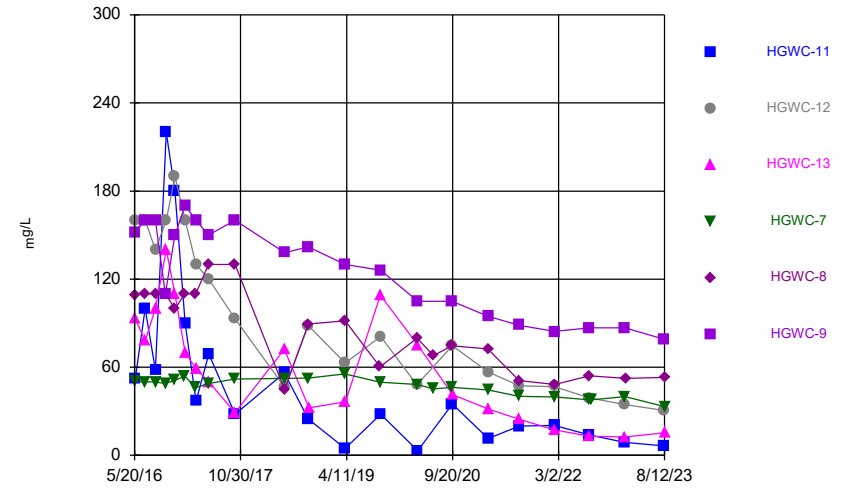
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Time Series



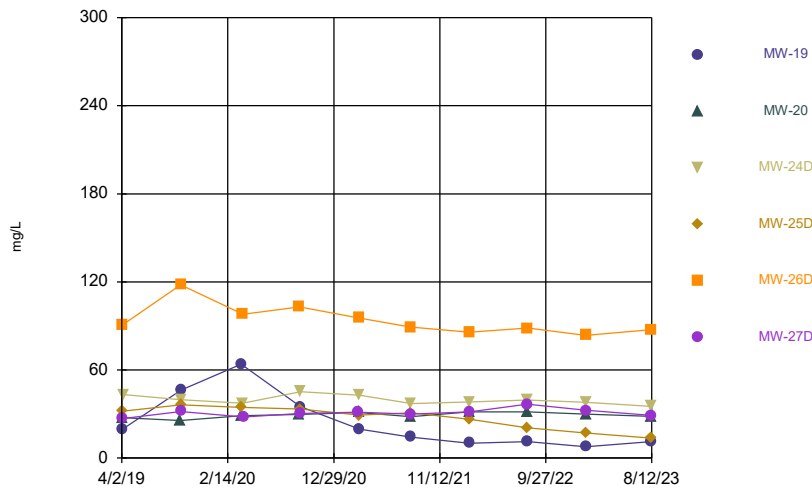
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Time Series



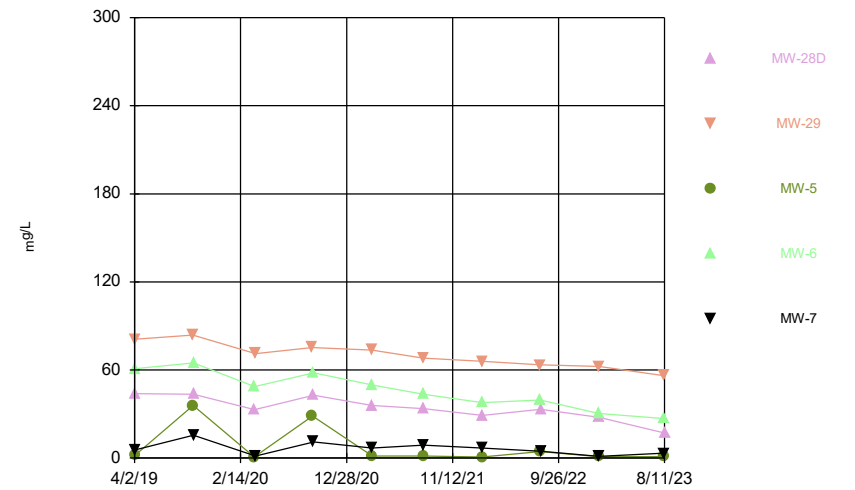
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Time Series



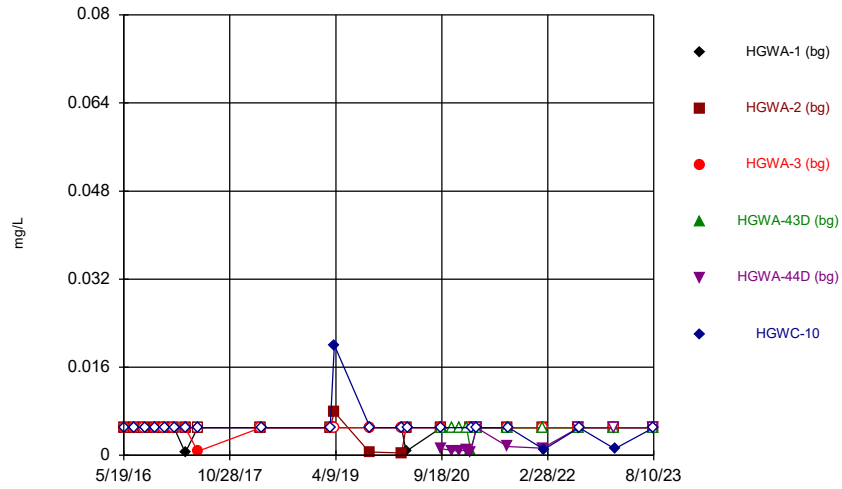
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Time Series



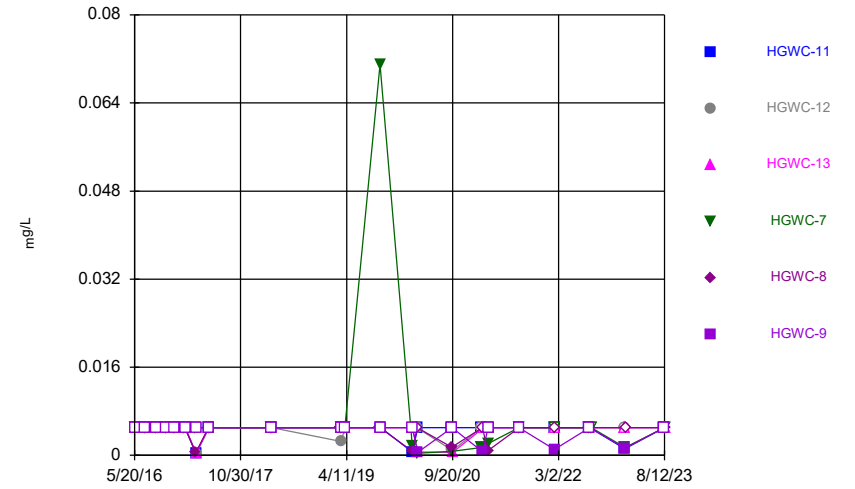
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Time Series



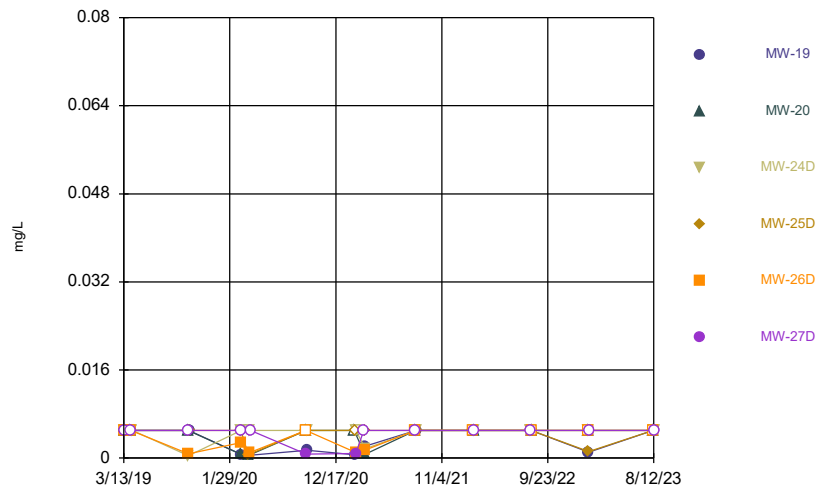
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Time Series



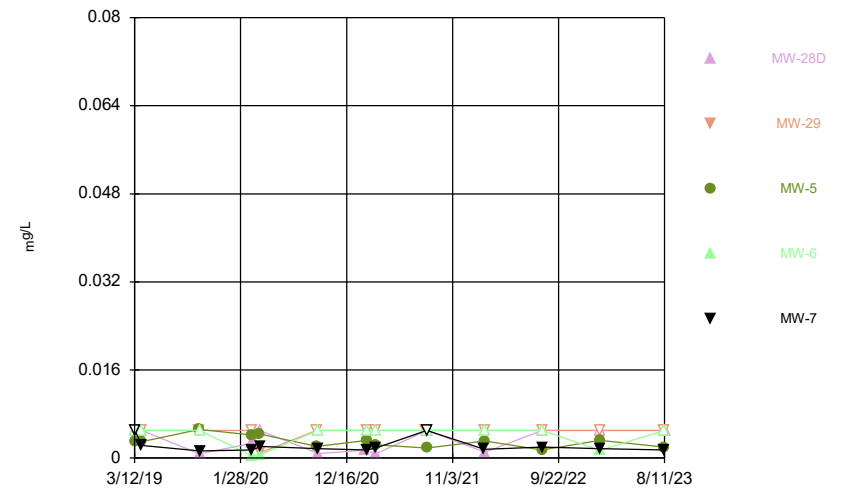
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Time Series



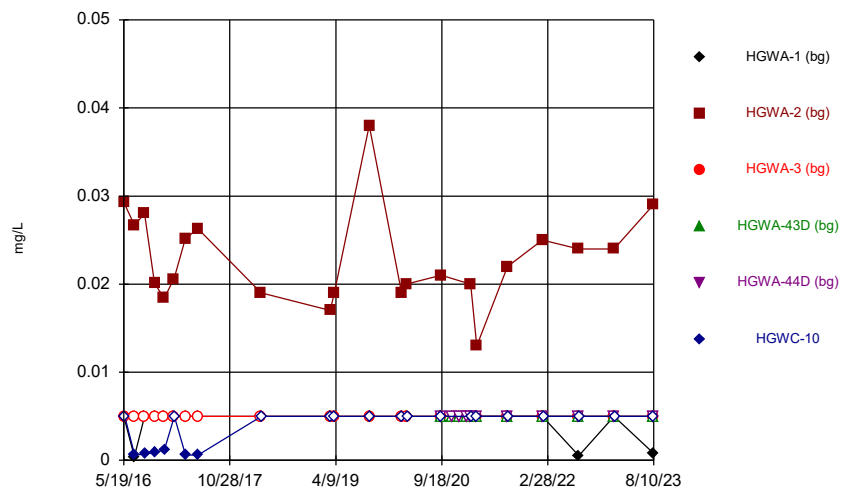
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Time Series



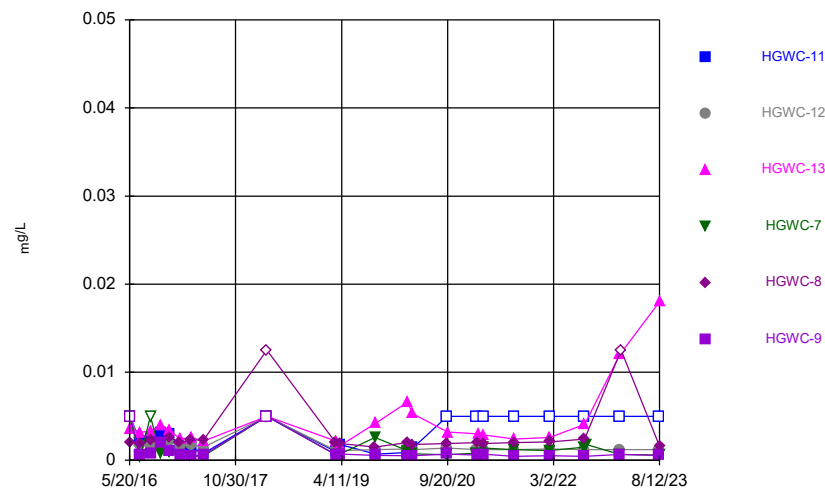
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Time Series



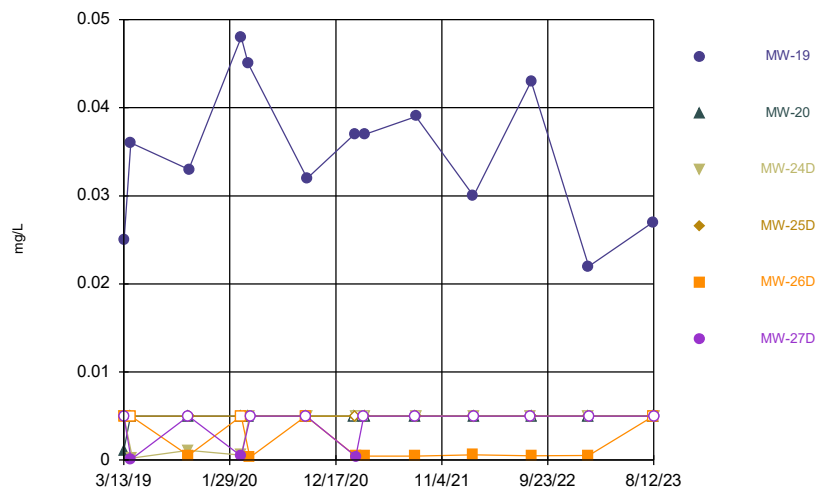
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Time Series



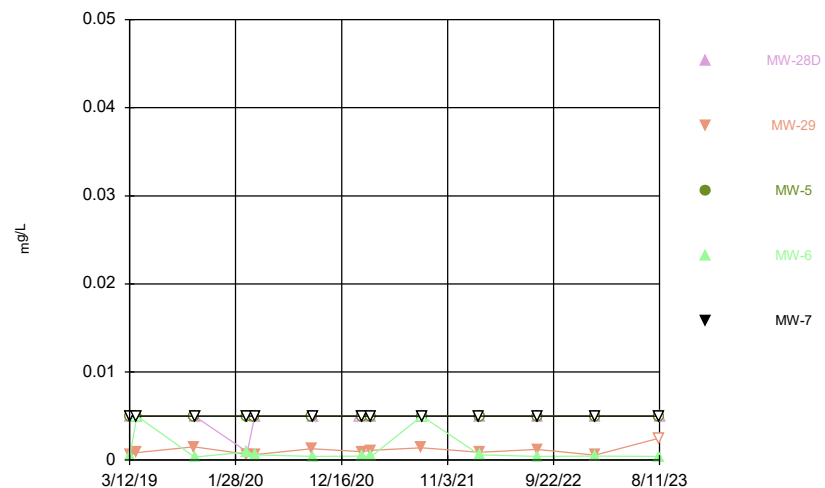
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Time Series



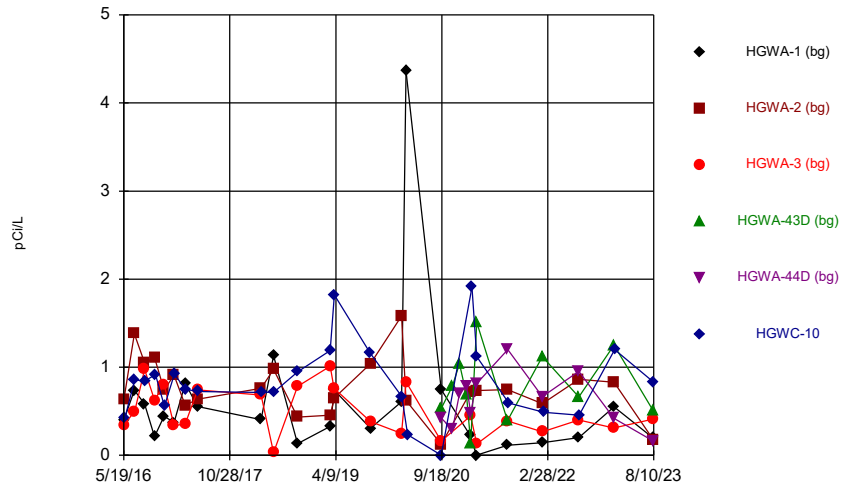
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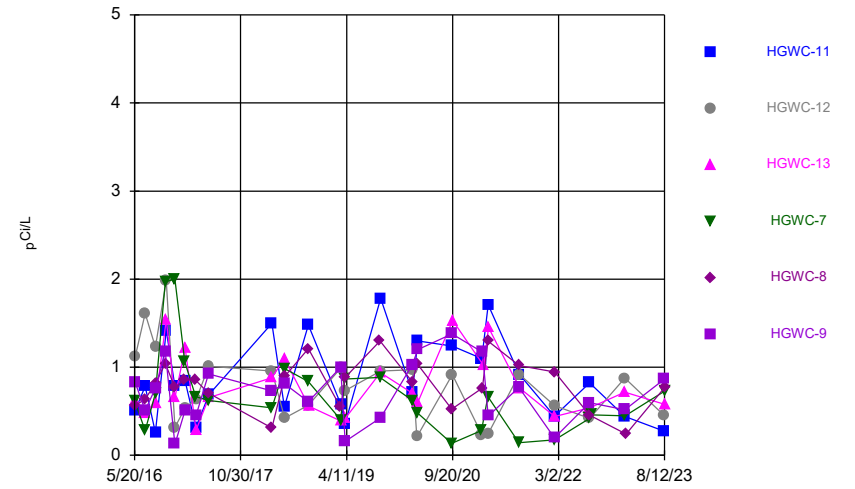
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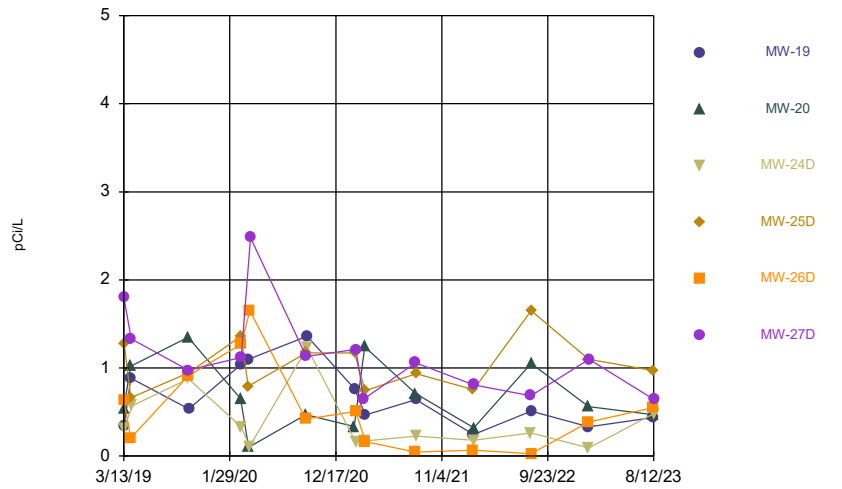
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Time Series



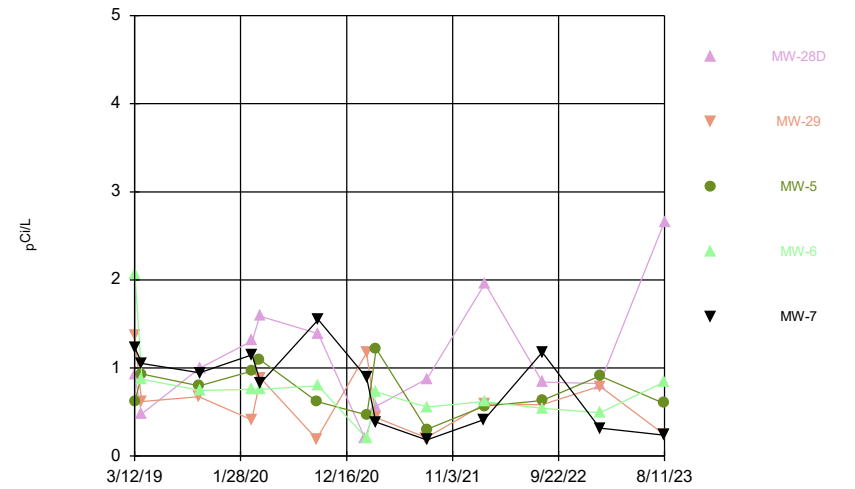
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Time Series



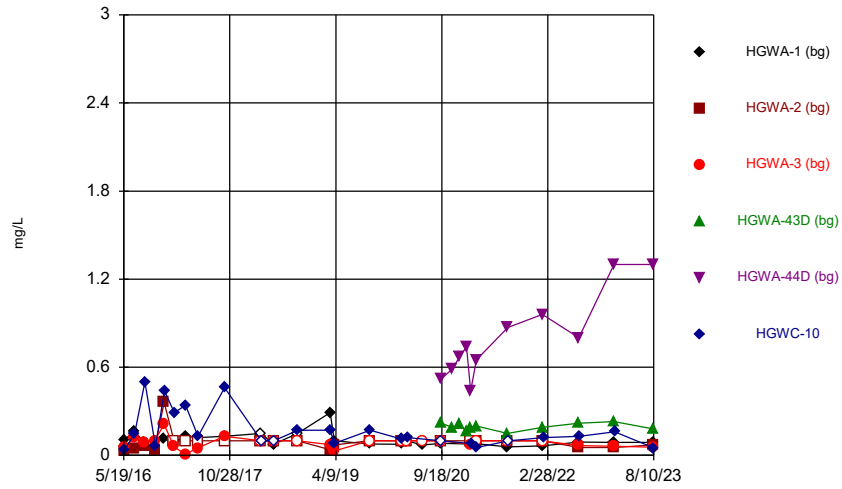
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Time Series



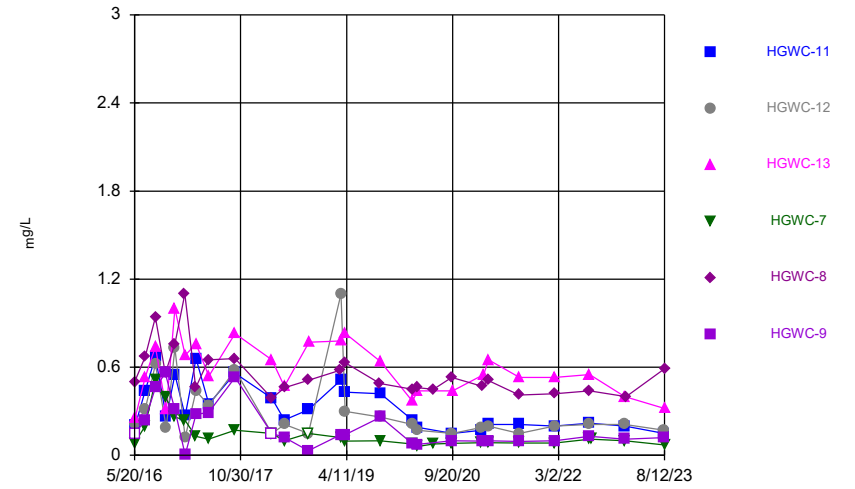
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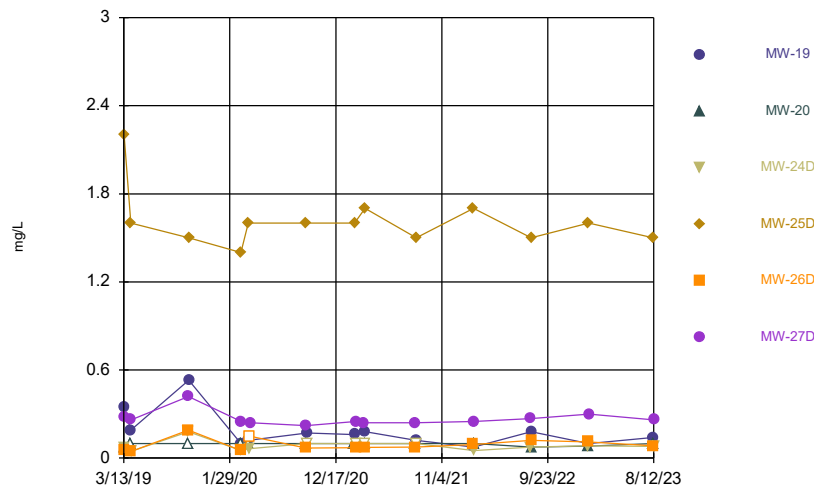
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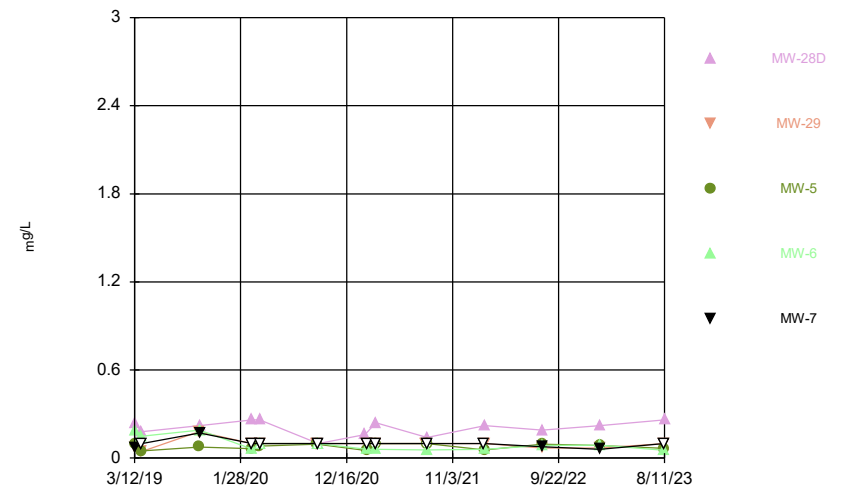
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Time Series



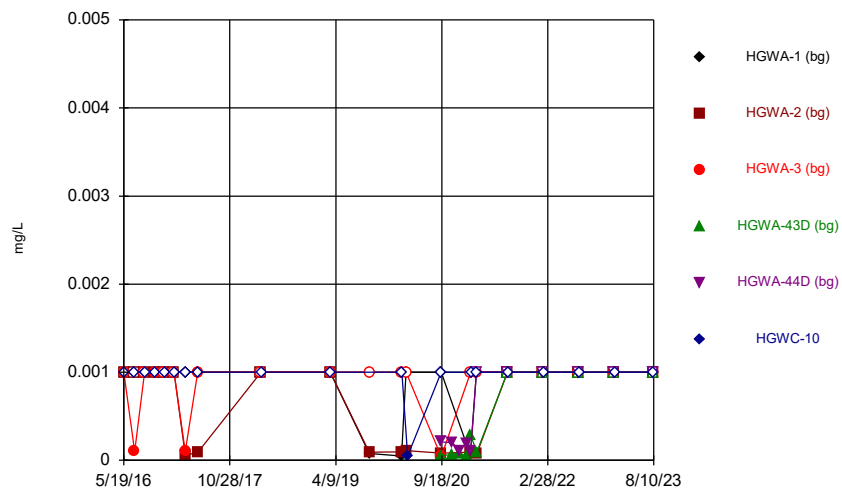
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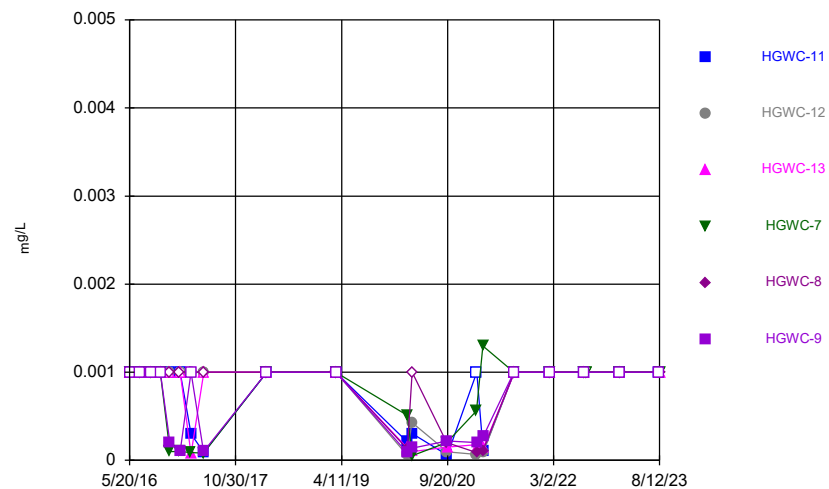
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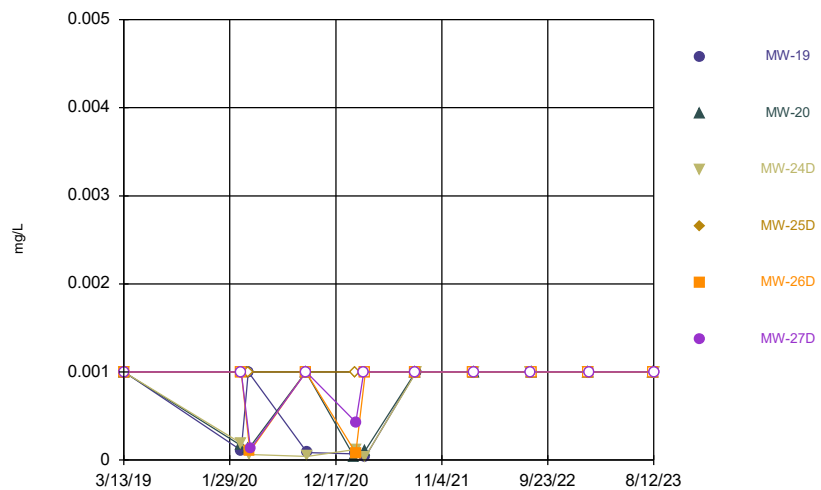
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Time Series



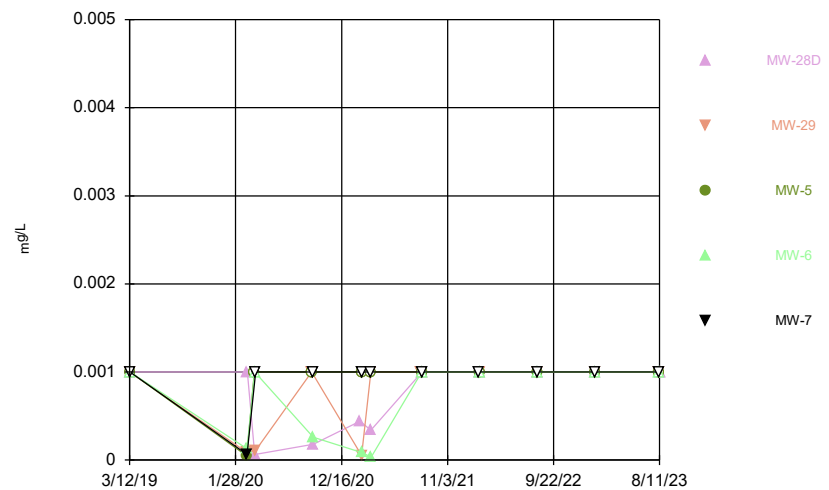
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Time Series



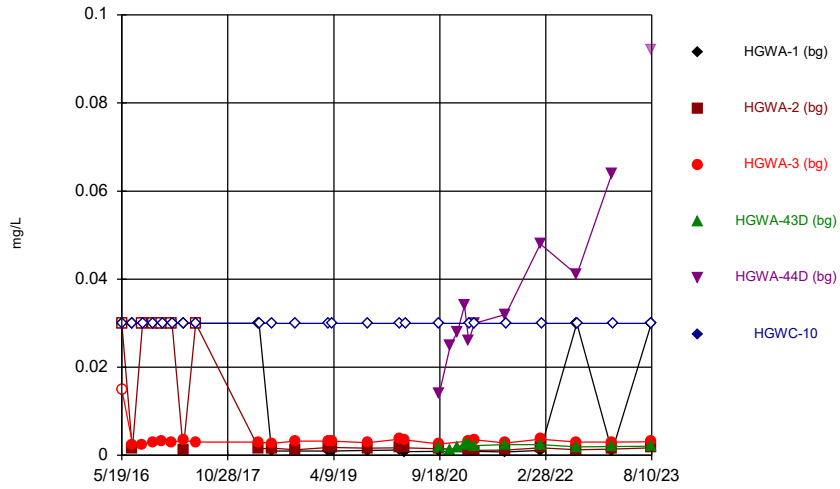
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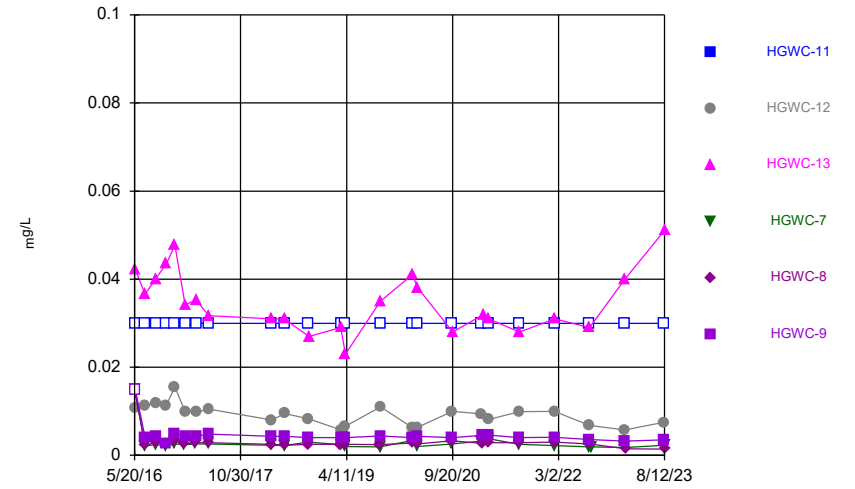
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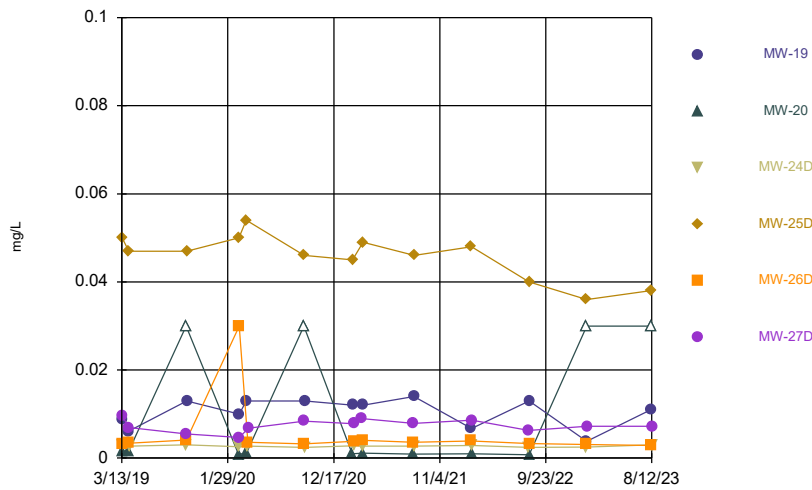
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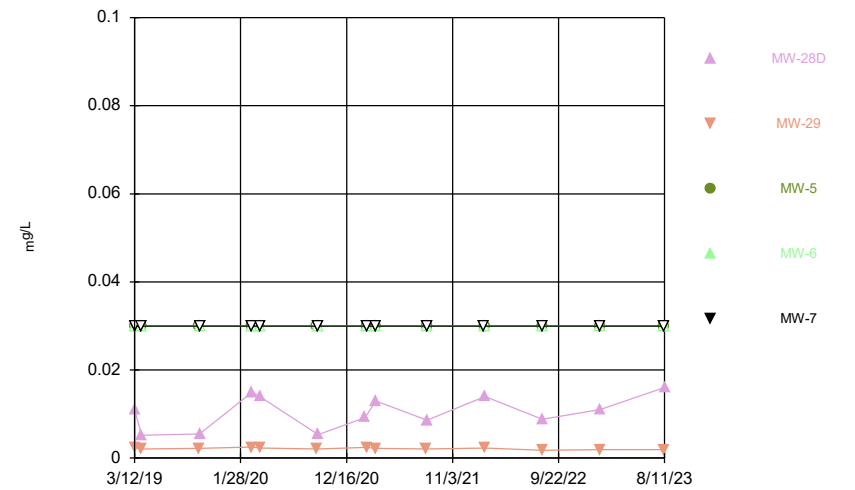
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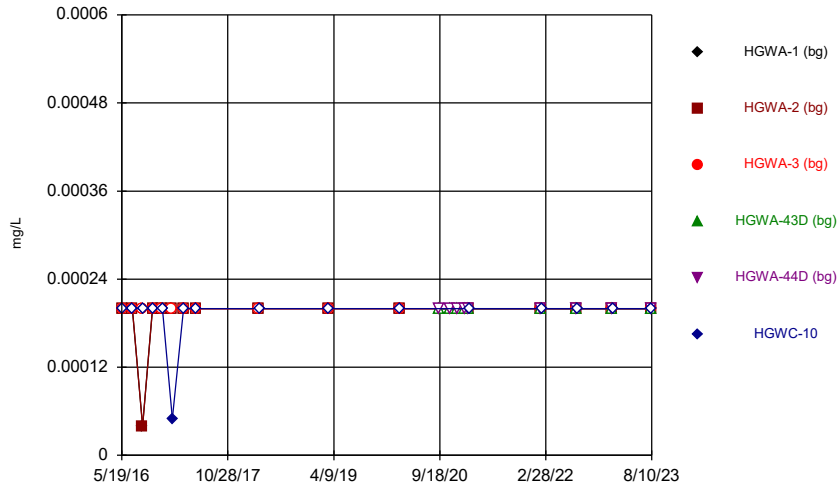
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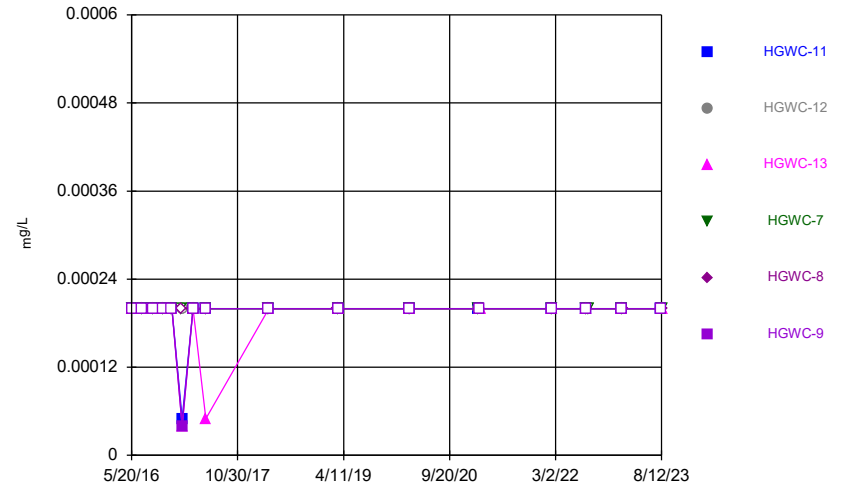
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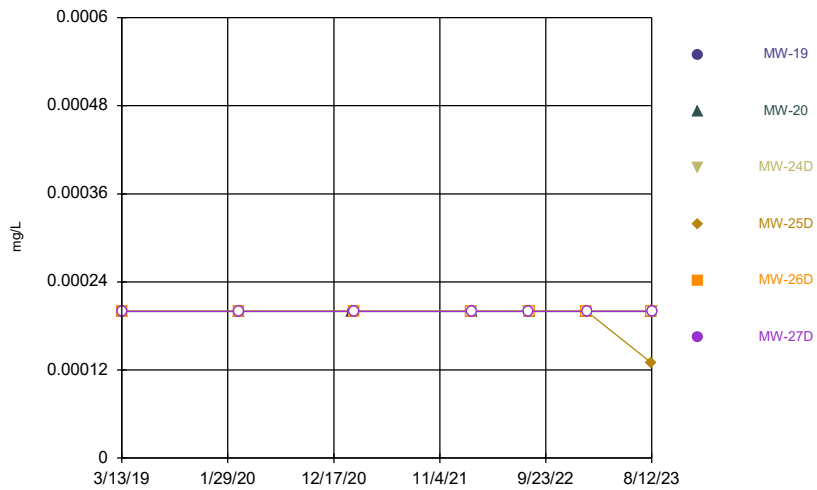
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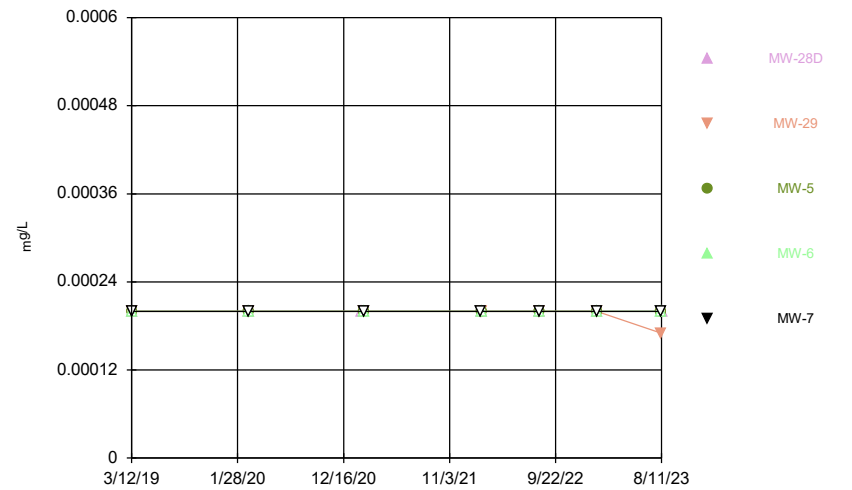
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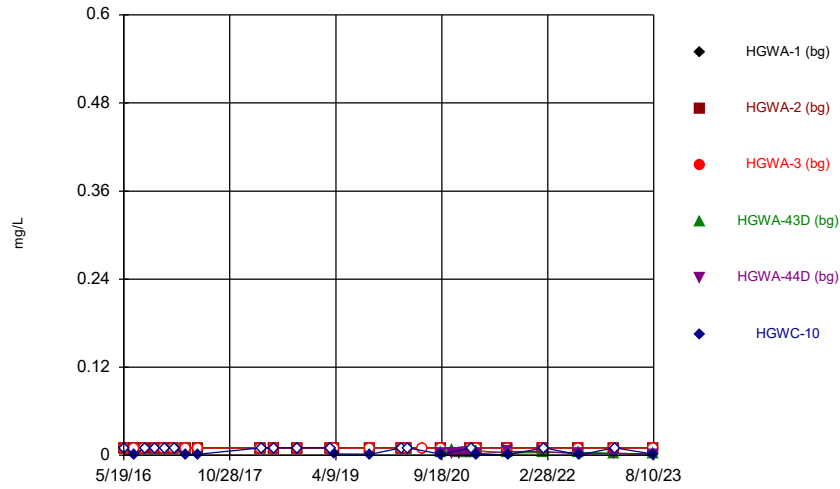
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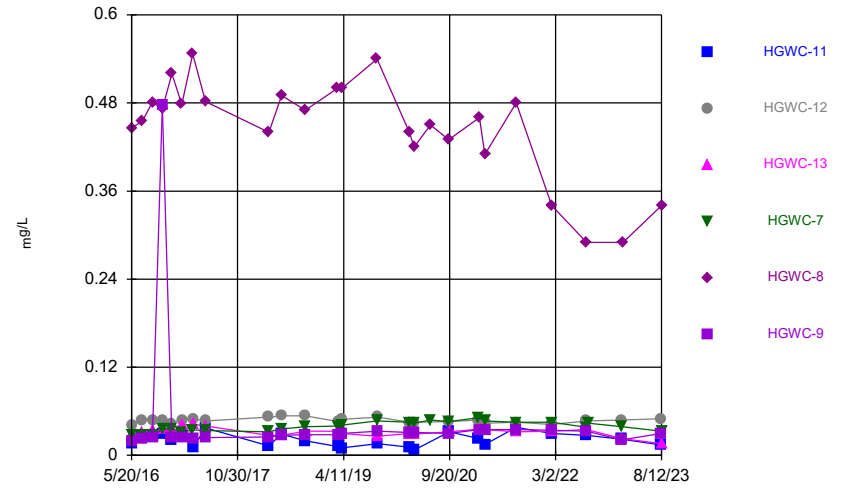
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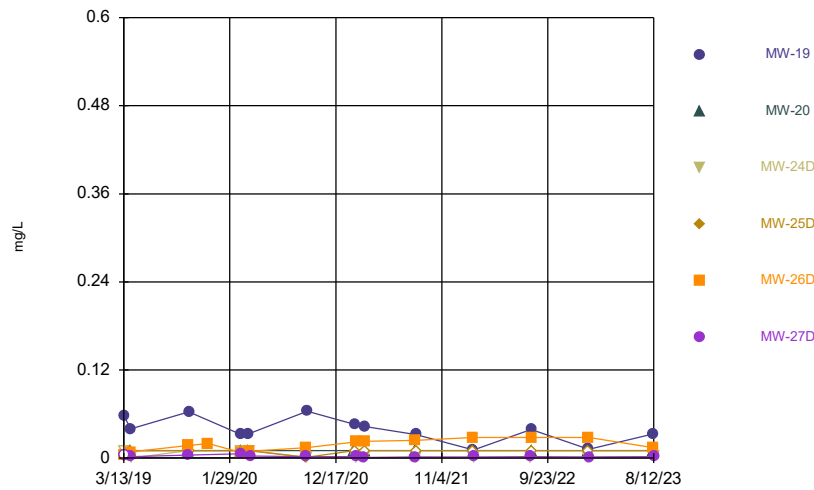
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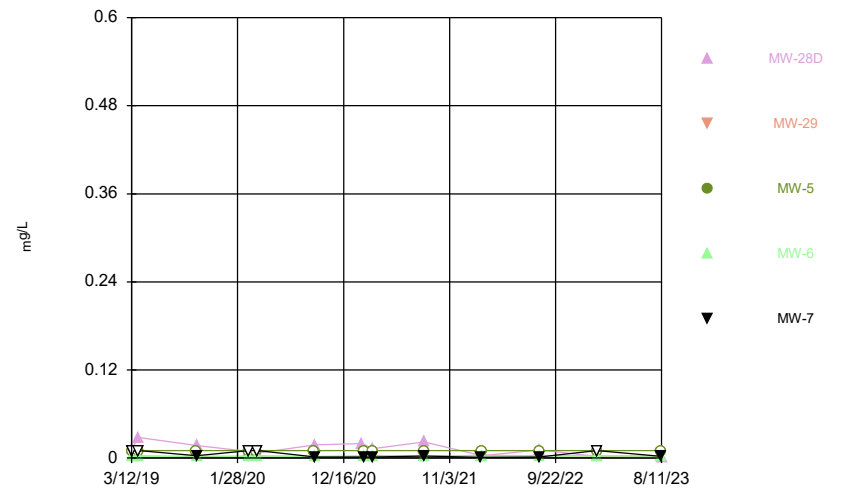
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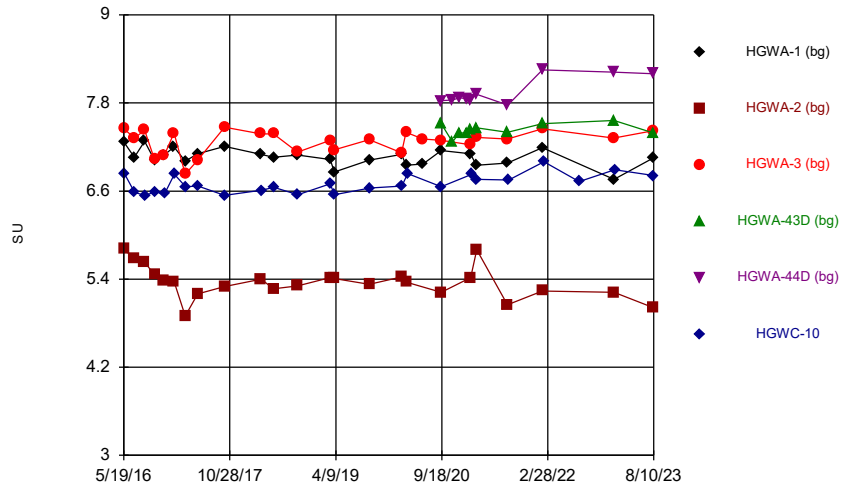
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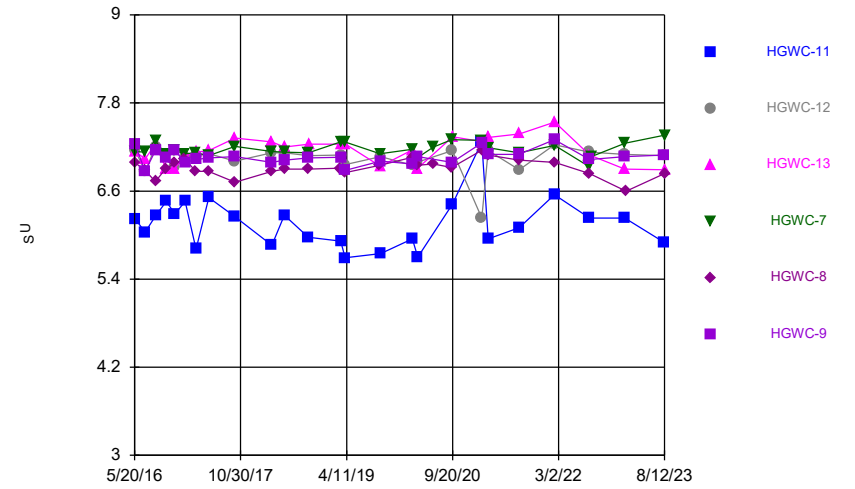
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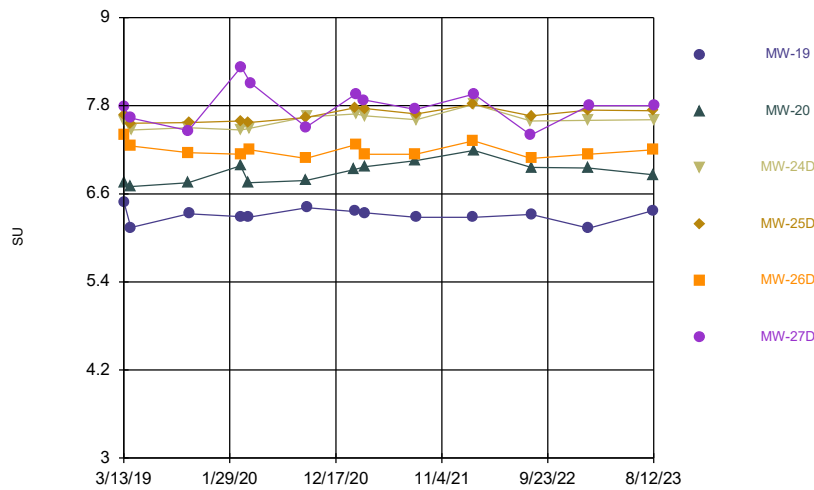
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Time Series



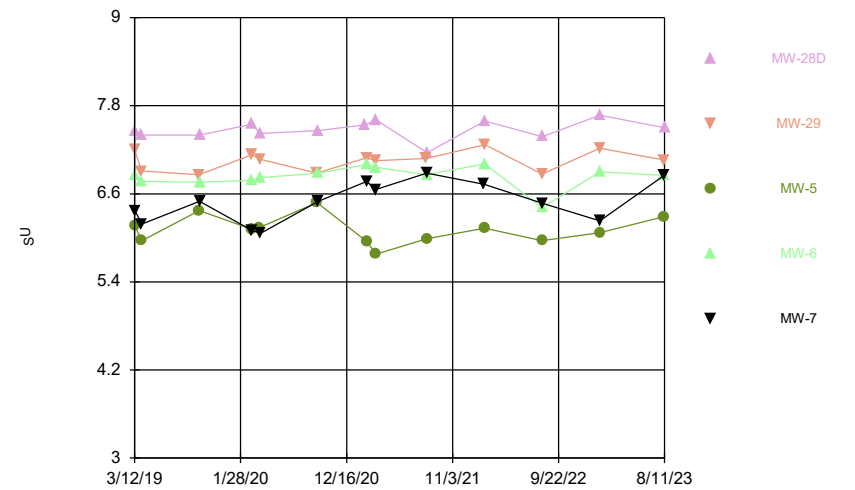
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Time Series



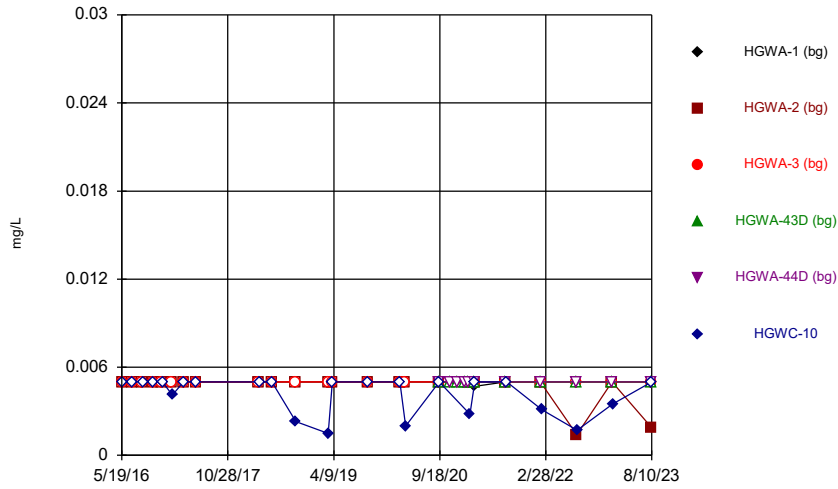
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Time Series



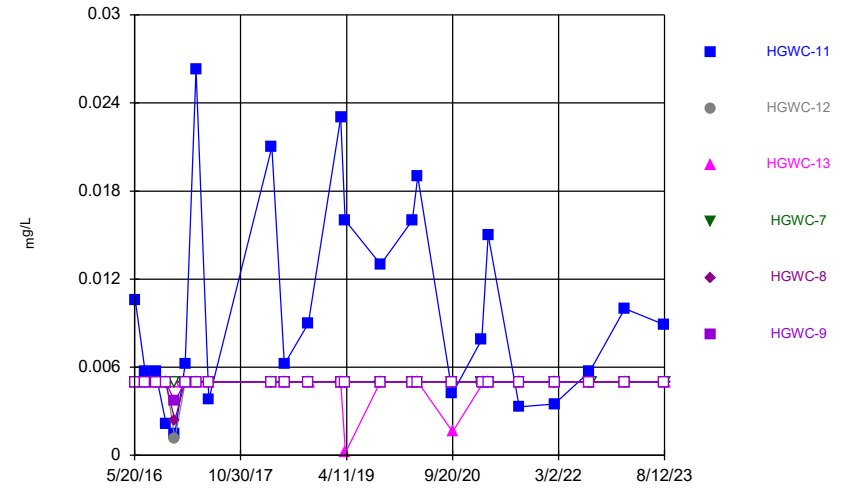
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Time Series



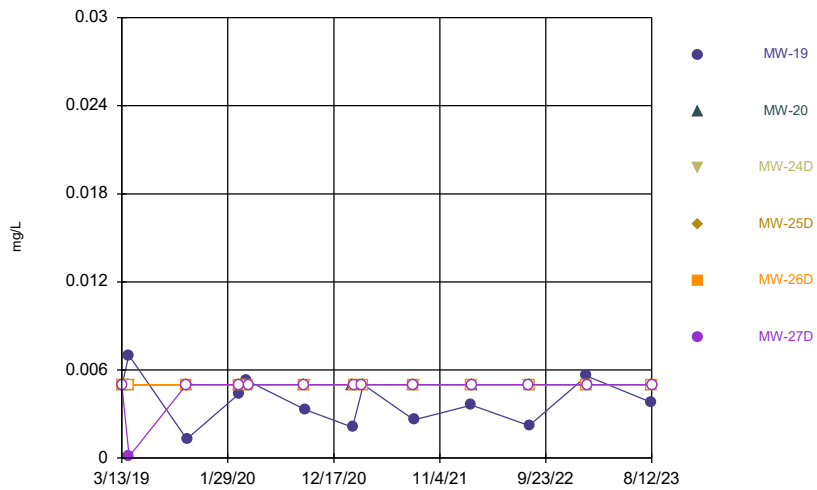
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Time Series



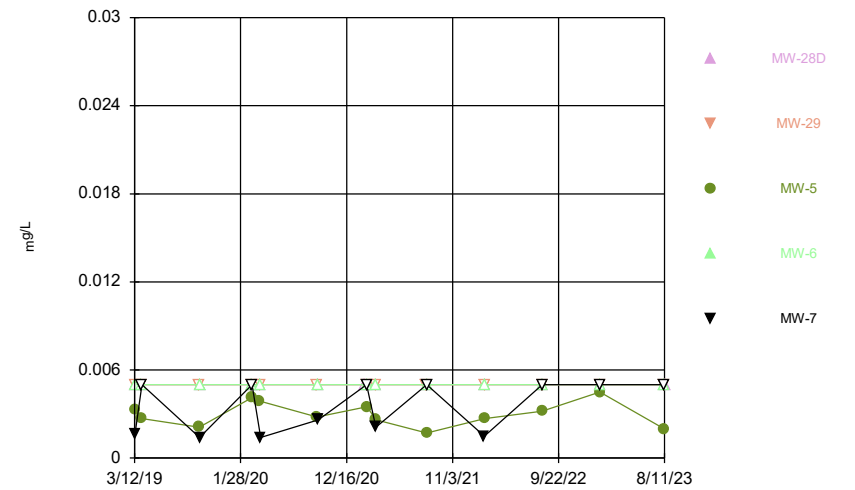
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Time Series



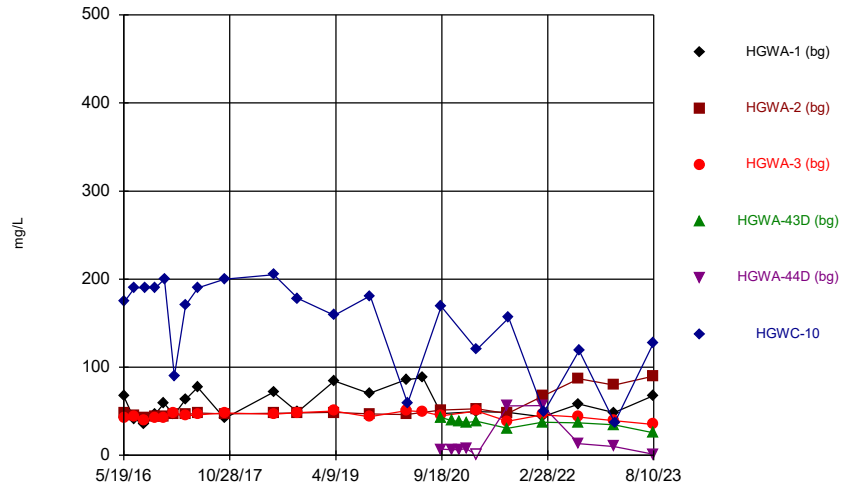
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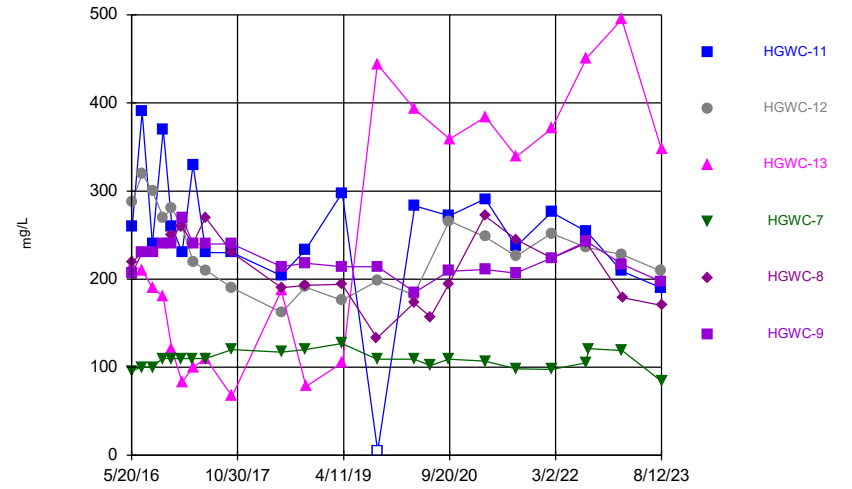
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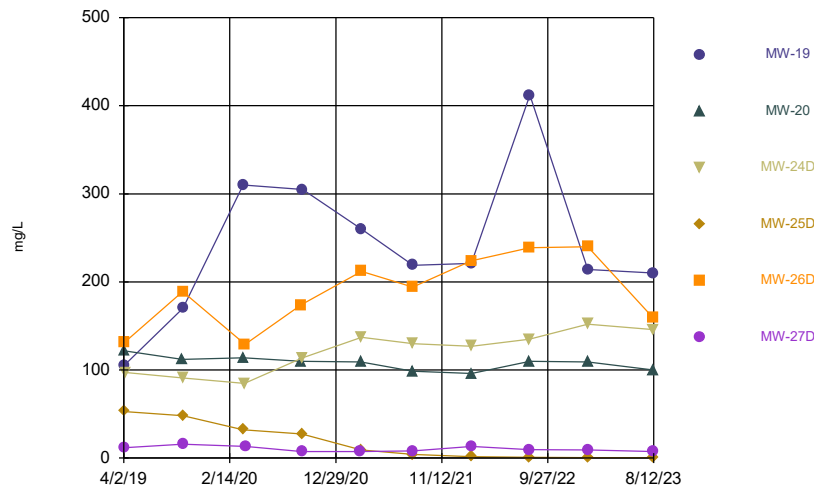
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



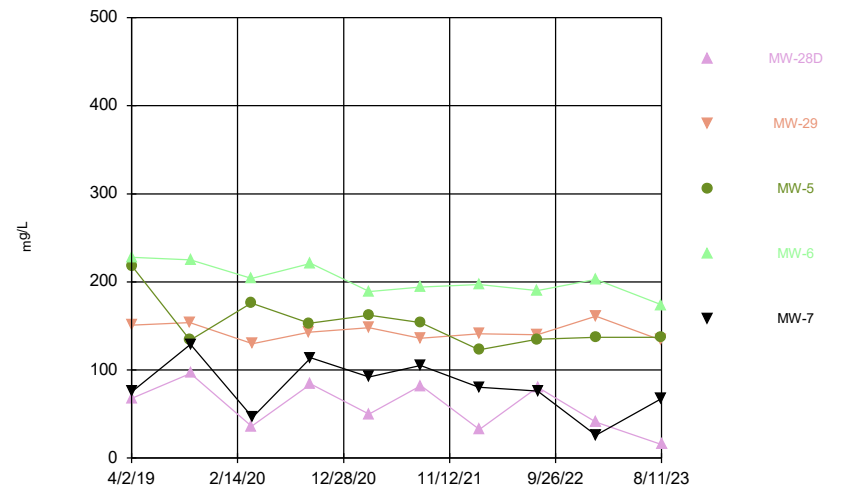
Constituent: Sulfate Analysis Run 11/15/2023 12:55 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



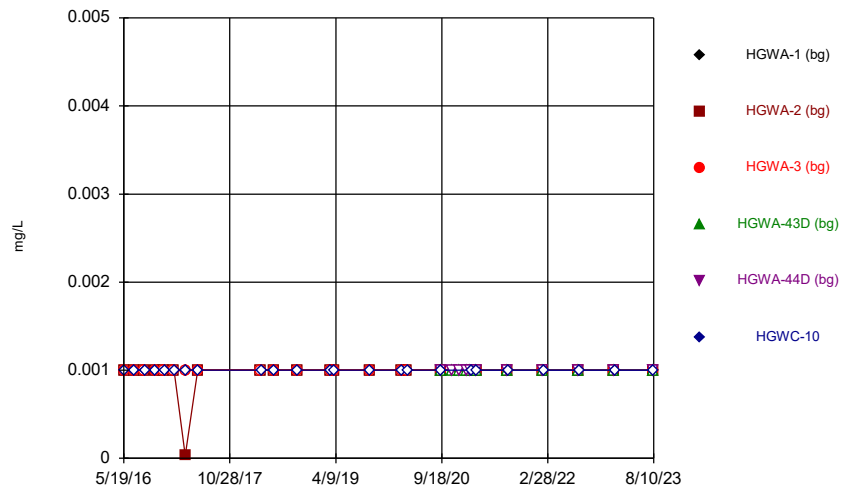
Constituent: Sulfate Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



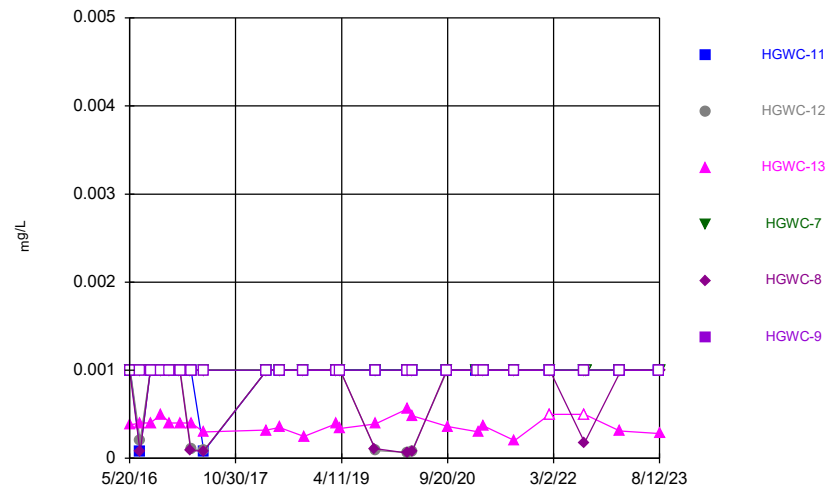
Constituent: Sulfate Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



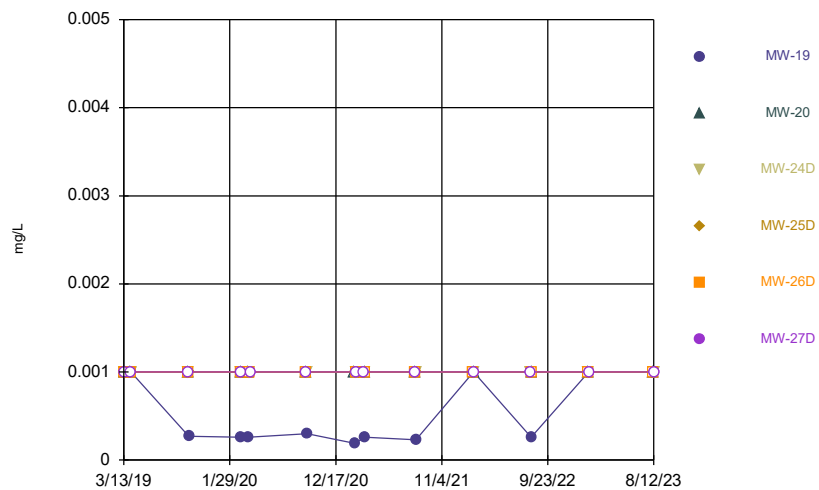
Constituent: Thallium Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



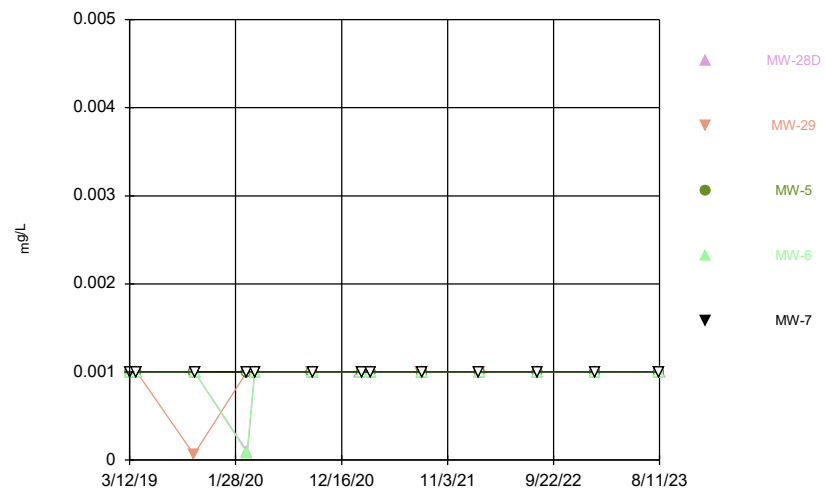
Constituent: Thallium Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



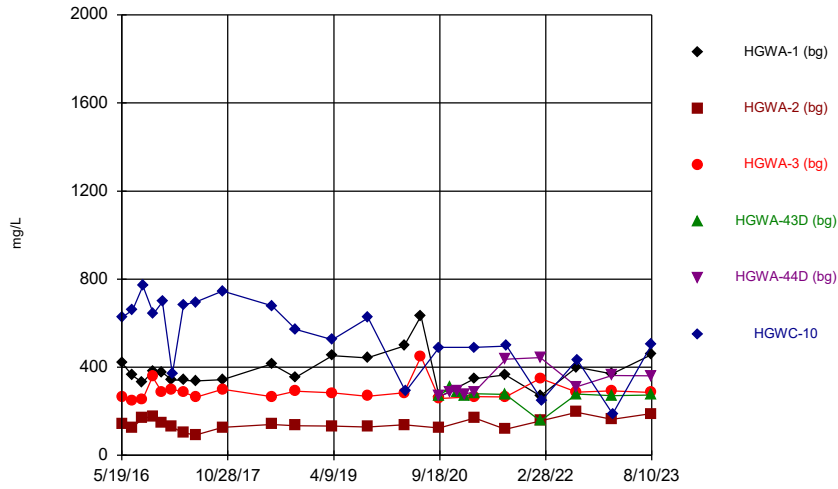
Constituent: Thallium Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



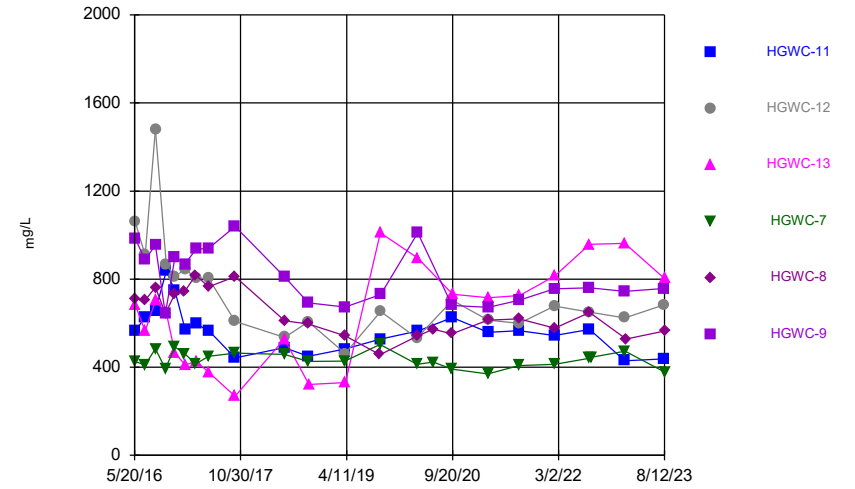
Constituent: Thallium Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



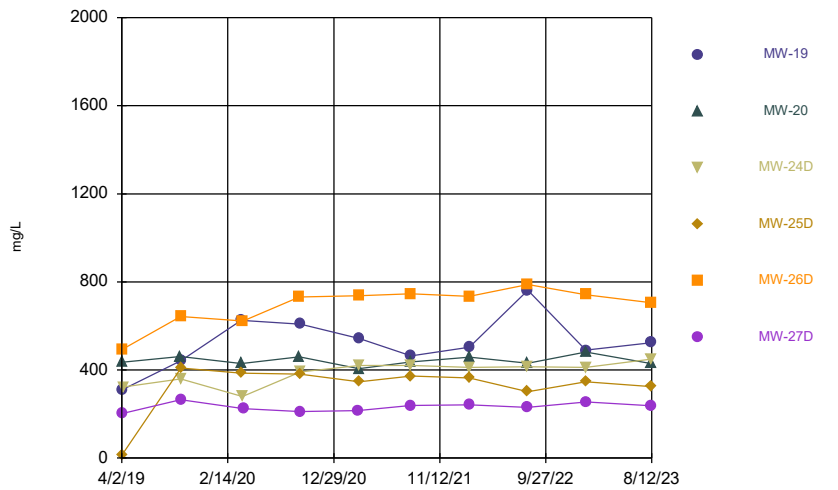
Constituent: Total Dissolved Solids Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



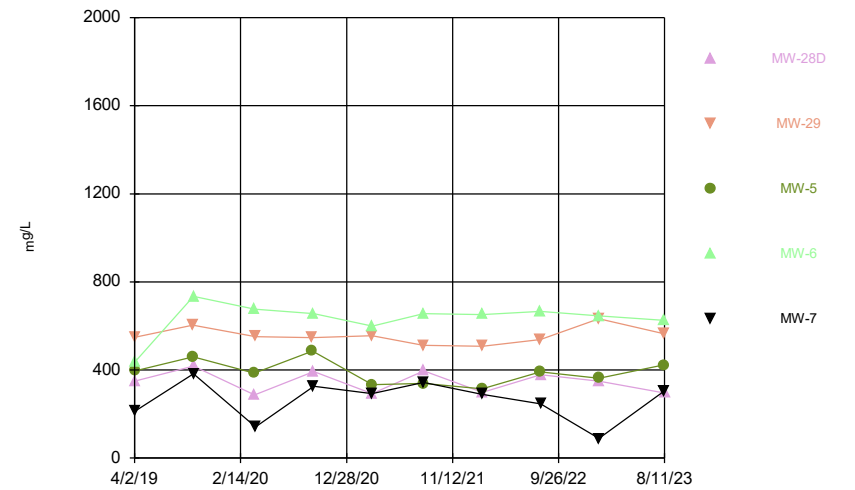
Constituent: Total Dissolved Solids Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



Constituent: Total Dissolved Solids Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



Constituent: Total Dissolved Solids Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|--------------|--------------|---------------|---------------|-------------|
| 5/19/2016 | <0.003 | <0.003 | <0.003 | | | |
| 5/23/2016 | | | | | | <0.003 |
| 7/11/2016 | <0.003 | <0.003 | | | | |
| 7/12/2016 | | | 0.0003 (J) | | | <0.003 |
| 8/30/2016 | <0.003 | <0.003 | <0.003 | | | |
| 9/1/2016 | | | | | | <0.003 |
| 10/19/2016 | 0.0014 (J) | <0.003 | <0.003 | | | |
| 10/24/2016 | | | | | | <0.003 |
| 12/6/2016 | <0.003 | <0.003 | <0.003 | | | |
| 12/7/2016 | | | | | | <0.003 |
| 1/24/2017 | <0.003 | <0.003 | <0.003 | | | |
| 1/26/2017 | | | | | | <0.003 |
| 3/21/2017 | <0.003 | <0.003 | <0.003 | | | |
| 3/22/2017 | | | | | | <0.003 |
| 5/22/2017 | <0.003 | <0.003 | <0.003 | | | |
| 5/24/2017 | | | | | | <0.003 |
| 4/2/2018 | <0.003 | <0.003 | | | | |
| 4/3/2018 | | | <0.003 | | | |
| 4/4/2018 | | | | | | <0.003 |
| 3/12/2019 | <0.003 | <0.003 | <0.003 | | | |
| 3/13/2019 | | | | | | <0.003 |
| 4/1/2019 | | | <0.003 | | | |
| 4/2/2019 | <0.003 | <0.003 | | | | |
| 4/3/2019 | | | | | | <0.003 |
| 9/23/2019 | <0.003 | <0.003 | <0.003 | | | |
| 9/27/2019 | | | | | | <0.003 |
| 3/2/2020 | <0.003 | <0.003 | <0.003 | | | |
| 3/3/2020 | | | | | | <0.003 |
| 3/25/2020 | <0.003 | <0.003 | <0.003 | | | |
| 4/1/2020 | | | | | | <0.003 |
| 9/15/2020 | <0.003 | <0.003 | <0.003 | | | |
| 9/16/2020 | | | | 0.00051 (J) | 0.00049 (J) | <0.003 |
| 11/10/2020 | | | | 0.00043 (J) | <0.003 | |
| 12/15/2020 | | | | 0.00031 (J) | 0.00047 (J) | |
| 1/19/2021 | | | | 0.00029 (J) | 0.00067 (JB) | |
| 2/8/2021 | <0.003 | | | | | |
| 2/9/2021 | | 0.00062 (JB) | 0.00031 (JB) | 0.00037 (JB) | 0.00042 (J) | |
| 2/15/2021 | | | | | | 0.00065 (J) |
| 3/10/2021 | <0.003 | | | | 0.00037 (J) | |
| 3/11/2021 | | <0.003 | <0.003 | 0.00057 (J) | | |
| 3/12/2021 | | | | | | <0.003 |
| 8/11/2021 | <0.003 | | | <0.003 | | |
| 8/12/2021 | | <0.003 | <0.003 | | | |
| 8/13/2021 | | | | | <0.003 | |
| 8/17/2021 | | | | | | <0.003 |
| 2/1/2022 | <0.003 | <0.003 | <0.003 | <0.003 | 0.0013 (J) | |
| 2/9/2022 | | | | | | <0.003 |
| 8/2/2022 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | |
| 8/3/2022 | | | | | | 0.0018 (J) |
| 1/23/2023 | | | <0.003 | | | |
| 1/24/2023 | <0.003 | <0.003 | | <0.003 | <0.003 | |
| 1/27/2023 | | | | | | <0.003 |

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|---------|
| 8/8/2023 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | |
| 8/10/2023 | | | | | | <0.003 |

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-------------|---------|-------------|-------------|-------------|-------------|
| 5/20/2016 | | | | <0.003 | <0.003 | |
| 5/23/2016 | <0.003 | <0.003 | <0.003 | | | <0.003 |
| 7/12/2016 | <0.003 | <0.003 | 0.0003 (J) | <0.003 | <0.003 | <0.003 |
| 9/1/2016 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 |
| 10/20/2016 | | | | <0.003 | <0.003 | <0.003 |
| 10/24/2016 | <0.003 | <0.003 | <0.003 | | | |
| 12/6/2016 | | | | <0.003 | <0.003 | <0.003 |
| 12/7/2016 | <0.003 | <0.003 | <0.003 | | | |
| 1/25/2017 | | | | <0.003 | <0.003 | |
| 1/26/2017 | <0.003 | <0.003 | <0.003 | | | <0.003 |
| 3/21/2017 | | | | <0.003 | <0.003 | |
| 3/22/2017 | <0.003 | <0.003 | <0.003 | | | <0.003 |
| 5/23/2017 | | | | <0.003 | <0.003 | <0.003 |
| 5/24/2017 | <0.003 | <0.003 | <0.003 | | | |
| 4/3/2018 | | | | <0.003 | <0.003 | <0.003 |
| 4/4/2018 | <0.003 | <0.003 | <0.003 | | | |
| 3/12/2019 | | | | | <0.003 | |
| 3/13/2019 | <0.003 | | <0.003 | <0.003 | | <0.003 |
| 3/14/2019 | | <0.003 | | | | |
| 4/2/2019 | | | | <0.003 | | |
| 4/3/2019 | <0.003 | <0.003 | | | <0.003 | <0.003 |
| 4/5/2019 | | | 0.00021 (J) | | | |
| 9/24/2019 | | | | | <0.003 | |
| 9/25/2019 | | | | <0.003 | | |
| 9/26/2019 | | | <0.003 | | | |
| 9/27/2019 | <0.003 | <0.003 | | | | <0.003 |
| 3/3/2020 | <0.003 | <0.003 | | | <0.003 | |
| 3/4/2020 | | | 0.00061 (J) | <0.003 | | 0.00032 (J) |
| 3/26/2020 | | <0.003 | | | | |
| 3/27/2020 | | | | <0.003 | <0.003 | |
| 3/30/2020 | | | 0.00036 (J) | | | |
| 3/31/2020 | <0.003 | | | | | 0.00042 (J) |
| 9/16/2020 | | | | 0.00034 (J) | <0.003 | |
| 9/17/2020 | | | | | | <0.003 |
| 9/18/2020 | 0.00038 (J) | <0.003 | | | | |
| 9/21/2020 | | | 0.00029 (J) | | | |
| 2/10/2021 | | | | <0.003 | | |
| 2/12/2021 | <0.003 | <0.003 | | | | |
| 2/16/2021 | | | | | 0.00064 (J) | 0.00043 (J) |
| 2/22/2021 | | | 0.00047 (J) | | | |
| 3/15/2021 | | | | <0.003 | <0.003 | |
| 3/16/2021 | <0.003 | <0.003 | | | | <0.003 |
| 3/17/2021 | | | 0.00049 (J) | | | |
| 8/16/2021 | | | | 0.0017 (J) | | |
| 8/17/2021 | | | | | | <0.003 |
| 8/18/2021 | <0.003 | <0.003 | | | <0.003 | |
| 8/19/2021 | | | <0.003 | | | |
| 2/9/2022 | <0.003 | <0.003 | | | | <0.003 |
| 2/10/2022 | | | <0.003 | <0.003 | <0.003 | |
| 8/3/2022 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | |
| 8/4/2022 | | | | | | <0.003 |
| 8/11/2022 | | | | <0.003 | | |

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|---------|---------|--------|--------|-------------|
| 1/26/2023 | <0.003 | <0.003 | <0.003 | | | 0.00092 (J) |
| 1/27/2023 | | | | <0.003 | | |
| 2/1/2023 | | | | | <0.003 | |
| 8/10/2023 | <0.003 | <0.003 | | | | |
| 8/11/2023 | | | | | | <0.003 |
| 8/12/2023 | | | <0.003 | <0.003 | <0.003 | |

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|--------|--------|------------|--------|------------|-------------|
| 3/13/2019 | | <0.003 | <0.003 | | <0.003 | <0.003 |
| 3/14/2019 | <0.003 | | | <0.003 | | |
| 4/2/2019 | | <0.003 | | | | |
| 4/3/2019 | <0.003 | | | <0.003 | <0.003 | |
| 4/4/2019 | | | | | | 0.00016 (J) |
| 4/8/2019 | | | <0.003 | | | |
| 9/25/2019 | | <0.003 | | | | |
| 9/26/2019 | | | <0.003 | | <0.003 | 0.0003 (J) |
| 9/27/2019 | <0.003 | | | <0.003 | | |
| 3/2/2020 | | <0.003 | | | | |
| 3/3/2020 | | | | <0.003 | | |
| 3/4/2020 | <0.003 | | 0.0017 (J) | | 0.002 (J) | 0.00037 (J) |
| 3/26/2020 | <0.003 | | | <0.003 | | |
| 3/27/2020 | | <0.003 | | | | |
| 3/30/2020 | | | <0.003 | | | |
| 3/31/2020 | | | | | 0.0013 (J) | |
| 4/2/2020 | | | | | | 0.0003 (J) |
| 9/17/2020 | | <0.003 | | | <0.003 | |
| 9/18/2020 | | | | <0.003 | | 0.00031 (J) |
| 9/21/2020 | <0.003 | | <0.003 | | | |
| 2/11/2021 | | <0.003 | | | | |
| 2/12/2021 | <0.003 | | | <0.003 | | |
| 2/16/2021 | | | <0.003 | | <0.003 | 0.00038 (J) |
| 3/12/2021 | | | | | | <0.003 |
| 3/15/2021 | | <0.003 | | | | |
| 3/16/2021 | | | | <0.003 | | |
| 3/17/2021 | <0.003 | | <0.003 | | <0.003 | |
| 8/17/2021 | | <0.003 | | | <0.003 | <0.003 |
| 8/18/2021 | <0.003 | | | | | |
| 8/19/2021 | | | <0.003 | <0.003 | | |
| 2/9/2022 | <0.003 | | | <0.003 | <0.003 | |
| 2/10/2022 | | <0.003 | <0.003 | | | <0.003 |
| 8/3/2022 | | | <0.003 | | | <0.003 |
| 8/4/2022 | <0.003 | <0.003 | | <0.003 | <0.003 | |
| 1/26/2023 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | |
| 1/27/2023 | | | | | | <0.003 |
| 8/10/2023 | <0.003 | <0.003 | | <0.003 | | |
| 8/11/2023 | | | | | <0.003 | |
| 8/12/2023 | | | <0.003 | | | <0.003 |

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|------------|-------------|--------|------------|-------------|
| 3/12/2019 | <0.003 | <0.003 | | | |
| 3/13/2019 | | | <0.003 | <0.003 | 0.00086 (J) |
| 4/2/2019 | <0.003 | <0.003 | | | |
| 4/3/2019 | | | <0.003 | <0.003 | <0.003 |
| 9/24/2019 | | <0.003 | | | |
| 9/25/2019 | | | <0.003 | | |
| 9/26/2019 | <0.003 | | | <0.003 | <0.003 |
| 3/2/2020 | | <0.003 | <0.003 | | |
| 3/3/2020 | | | | <0.003 | 0.0013 (J) |
| 3/4/2020 | <0.003 | | | | |
| 3/26/2020 | | | <0.003 | | |
| 3/27/2020 | <0.003 | | | <0.003 | |
| 3/30/2020 | | <0.003 | | | <0.003 |
| 9/16/2020 | | <0.003 | | | |
| 9/17/2020 | | | <0.003 | | |
| 9/21/2020 | <0.003 | | | 0.0014 (J) | 0.00051 (J) |
| 2/10/2021 | 0.0019 (J) | | | | |
| 2/15/2021 | | 0.00094 (J) | | | 0.0021 (J) |
| 2/16/2021 | | | <0.003 | <0.003 | |
| 3/15/2021 | <0.003 | <0.003 | | | <0.003 |
| 3/16/2021 | | | <0.003 | <0.003 | |
| 8/16/2021 | | <0.003 | | | |
| 8/17/2021 | | | <0.003 | <0.003 | <0.003 |
| 8/18/2021 | <0.003 | | | | |
| 2/8/2022 | | | | | <0.003 |
| 2/9/2022 | | | <0.003 | <0.003 | |
| 2/10/2022 | <0.003 | <0.003 | | | |
| 8/3/2022 | | <0.003 | <0.003 | <0.003 | |
| 8/4/2022 | <0.003 | | | | <0.003 |
| 1/26/2023 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 |
| 8/10/2023 | | <0.003 | <0.003 | <0.003 | <0.003 |
| 8/11/2023 | <0.003 | | | | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|---------|
| 5/19/2016 | <0.005 | 0.00127 (J) | <0.005 | | | |
| 5/23/2016 | | | | | | <0.005 |
| 7/11/2016 | <0.005 | 0.002 (J) | | | | |
| 7/12/2016 | | | 0.0008 (J) | | | <0.005 |
| 8/30/2016 | <0.005 | 0.0017 (J) | <0.005 | | | |
| 9/1/2016 | | | | | | <0.005 |
| 10/19/2016 | <0.005 | <0.005 | <0.005 | | | |
| 10/24/2016 | | | | | | <0.005 |
| 12/6/2016 | <0.005 | <0.005 | <0.005 | | | |
| 12/7/2016 | | | | | | <0.005 |
| 1/24/2017 | <0.005 | <0.005 | <0.005 | | | |
| 1/26/2017 | | | | | | <0.005 |
| 3/21/2017 | 0.0005 (J) | <0.005 | 0.0007 (J) | | | |
| 3/22/2017 | | | | | | <0.005 |
| 5/22/2017 | <0.005 | 0.0006 (J) | 0.0006 (J) | | | |
| 5/24/2017 | | | | | | <0.005 |
| 4/2/2018 | <0.005 | <0.005 | | | | |
| 4/3/2018 | | | <0.005 | | | |
| 4/4/2018 | | | | | | <0.005 |
| 6/4/2018 | <0.005 | 0.00088 (J) | 0.0008 (J) | | | |
| 6/5/2018 | | | | | | <0.005 |
| 10/1/2018 | <0.005 | <0.005 | 0.0011 (J) | | | |
| 10/2/2018 | | | | | | <0.005 |
| 3/12/2019 | <0.005 | 0.00069 (J) | 0.00063 (J) | | | |
| 3/13/2019 | | | | | | <0.005 |
| 4/1/2019 | | | <0.005 | | | |
| 4/2/2019 | <0.005 | <0.005 | | | | |
| 4/3/2019 | | | | | | <0.005 |
| 9/23/2019 | 0.00046 (J) | 0.00067 (J) | 0.0011 (J) | | | |
| 9/27/2019 | | | | | | <0.005 |
| 3/2/2020 | <0.005 | 0.00043 (J) | 0.0004 (J) | | | |
| 3/3/2020 | | | | | | <0.005 |
| 3/25/2020 | <0.005 | <0.005 | <0.005 | | | |
| 4/1/2020 | | | | | | <0.005 |
| 9/15/2020 | <0.005 | <0.005 | <0.005 | | | |
| 9/16/2020 | | | | <0.005 | <0.005 | <0.005 |
| 11/10/2020 | | | | 0.0021 (J) | <0.005 | |
| 12/15/2020 | | | | <0.005 | <0.005 | |
| 1/19/2021 | | | | 0.0011 (J) | <0.005 | |
| 2/8/2021 | <0.005 | | | | | |
| 2/9/2021 | | <0.005 | <0.005 | 0.0017 (JB) | 0.00083 (J) | |
| 2/15/2021 | | | | | | <0.005 |
| 3/10/2021 | <0.005 | | | | <0.005 | |
| 3/11/2021 | | <0.005 | <0.005 | 0.0013 (J) | | |
| 3/12/2021 | | | | | | <0.005 |
| 8/11/2021 | <0.005 | | | 0.0015 (J) | | |
| 8/12/2021 | | <0.005 | <0.005 | | | |
| 8/13/2021 | | | | | <0.005 | |
| 8/17/2021 | | | | | | <0.005 |
| 2/1/2022 | 0.0016 (J) | 0.0023 (J) | 0.0024 (J) | 0.0036 (J) | 0.0025 (J) | |
| 2/9/2022 | | | | | | <0.005 |
| 8/2/2022 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|---------|
| 8/3/2022 | | | | | | <0.005 |
| 1/23/2023 | | | <0.005 | | | |
| 1/24/2023 | <0.005 | <0.005 | | <0.005 | 0.0027 (J) | |
| 1/27/2023 | | | | | | <0.005 |
| 8/8/2023 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 8/10/2023 | | | | | | <0.005 |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-------------|------------|---------|------------|--------|-------------|
| 5/20/2016 | | | | <0.005 | <0.005 | |
| 5/23/2016 | <0.005 | 0.0046 (J) | 0.329 | | | <0.005 |
| 7/12/2016 | 0.0015 (J) | 0.005 | 0.297 | <0.005 | <0.005 | <0.005 |
| 9/1/2016 | <0.005 | 0.0043 (J) | 0.314 | <0.005 | <0.005 | <0.005 |
| 10/20/2016 | | | | <0.005 | <0.005 | <0.005 |
| 10/24/2016 | <0.005 | 0.0049 (J) | 0.334 | | | |
| 12/6/2016 | | | | <0.005 | <0.005 | <0.005 |
| 12/7/2016 | <0.005 | 0.0046 (J) | 0.35 | | | |
| 1/25/2017 | | | | <0.005 | <0.005 | |
| 1/26/2017 | <0.005 | <0.005 | 0.424 | | | <0.005 |
| 3/21/2017 | | | | <0.005 | <0.005 | |
| 3/22/2017 | 0.0053 | 0.0019 (J) | 0.419 | | | 0.0008 (J) |
| 5/23/2017 | | | | <0.005 | <0.005 | <0.005 |
| 5/24/2017 | <0.005 | 0.0022 (J) | 0.393 | | | |
| 4/3/2018 | | | | <0.005 | <0.005 | <0.005 |
| 4/4/2018 | <0.005 | <0.005 | 0.49 | | | |
| 6/5/2018 | 0.0012 (J) | | 0.38 | <0.005 | | |
| 6/6/2018 | | 0.0048 (J) | | | <0.005 | <0.005 |
| 10/2/2018 | | | | 0.0019 (J) | <0.005 | <0.005 |
| 10/3/2018 | <0.005 | 0.0037 (J) | | | | |
| 10/5/2018 | | | 0.34 | | | |
| 3/12/2019 | | | | | <0.005 | |
| 3/13/2019 | 0.0024 (J) | | 0.42 | <0.005 | | 0.00075 (J) |
| 3/14/2019 | | 0.0026 (J) | | | | |
| 4/2/2019 | | | | <0.005 | | |
| 4/3/2019 | 0.00094 (J) | 0.0022 (J) | | | <0.005 | <0.005 |
| 4/5/2019 | | | 0.36 | | | |
| 9/24/2019 | | | | | <0.005 | |
| 9/25/2019 | | | | <0.005 | | |
| 9/26/2019 | | | 0.44 | | | |
| 9/27/2019 | 0.0018 (J) | 0.0061 | | | | 0.00037 (J) |
| 3/3/2020 | 0.0022 (J) | 0.0023 (J) | | | <0.005 | |
| 3/4/2020 | | | 0.52 | <0.005 | | <0.005 |
| 3/26/2020 | | 0.0028 (J) | | | | |
| 3/27/2020 | | | | <0.005 | <0.005 | |
| 3/30/2020 | | | 0.47 | | | |
| 3/31/2020 | 0.0022 (J) | | | | | <0.005 |
| 9/16/2020 | | | | <0.005 | <0.005 | |
| 9/17/2020 | | | | | | <0.005 |
| 9/18/2020 | 0.00081 (J) | 0.0031 (J) | | | | |
| 9/21/2020 | | | 0.39 | | | |
| 2/10/2021 | | | | <0.005 | | |
| 2/12/2021 | 0.002 (J) | 0.0045 (J) | | | | |
| 2/16/2021 | | | | | <0.005 | <0.005 |
| 2/22/2021 | | | 0.45 | | | |
| 3/15/2021 | | | | <0.005 | <0.005 | |
| 3/16/2021 | 0.0017 (J) | 0.0038 (J) | | | | <0.005 |
| 3/17/2021 | | | 0.39 | | | |
| 8/16/2021 | | | | <0.005 | | |
| 8/17/2021 | | | | | | <0.005 |
| 8/18/2021 | <0.005 | 0.0028 (J) | | | <0.005 | |
| 8/19/2021 | | | 0.31 | | | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|------------|------------|---------|--------|-----------|------------|
| 2/9/2022 | 0.0047 (J) | 0.0053 | | | | 0.0021 (J) |
| 2/10/2022 | | | 0.38 | <0.005 | 0.002 (J) | |
| 8/3/2022 | <0.005 | 0.0023 (J) | 0.4 | <0.005 | <0.005 | |
| 8/4/2022 | | | | | | <0.005 |
| 8/11/2022 | | | | <0.005 | | |
| 1/26/2023 | <0.005 | 0.0025 (J) | 0.53 | | | <0.005 |
| 1/27/2023 | | | | <0.005 | | |
| 2/1/2023 | | | | | <0.005 | |
| 8/10/2023 | <0.005 | <0.005 | | | | |
| 8/11/2023 | | | | | | <0.005 |
| 8/12/2023 | | | 0.54 | <0.005 | <0.005 | |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------------|-------------|--------|-------------|------------|-------------|
| 3/13/2019 | | 0.0023 (J) | <0.005 | | <0.005 | <0.005 |
| 3/14/2019 | <0.005 | | | 0.0019 (J) | | |
| 4/2/2019 | | <0.005 | | | | |
| 4/3/2019 | <0.005 | | | <0.005 | <0.005 | |
| 4/4/2019 | | | | | | 0.0002 (J) |
| 4/8/2019 | | | <0.005 | | | |
| 9/25/2019 | | <0.005 | | | | |
| 9/26/2019 | | | <0.005 | | <0.005 | <0.005 |
| 9/27/2019 | <0.005 | | | 0.0011 (J) | | |
| 3/2/2020 | | 0.00038 (J) | | | | |
| 3/3/2020 | | | | 0.001 (J) | | |
| 3/4/2020 | 0.00045 (J) | | <0.005 | | 0.0006 (J) | 0.00069 (J) |
| 3/26/2020 | <0.005 | | | 0.00075 (J) | | |
| 3/27/2020 | | <0.005 | | | | |
| 3/30/2020 | | | <0.005 | | | |
| 3/31/2020 | | | | | <0.005 | |
| 4/2/2020 | | | | | | <0.005 |
| 9/17/2020 | | <0.005 | | | <0.005 | |
| 9/18/2020 | | | | <0.005 | | <0.005 |
| 9/21/2020 | <0.005 | | <0.005 | | | |
| 2/11/2021 | | 0.00094 (J) | | | | |
| 2/12/2021 | <0.005 | | | <0.005 | | |
| 2/16/2021 | | | <0.005 | | 0.0008 (J) | 0.001 (J) |
| 3/12/2021 | | | | | | <0.005 |
| 3/15/2021 | | <0.005 | | | | |
| 3/16/2021 | | | | <0.005 | | |
| 3/17/2021 | <0.005 | | <0.005 | | <0.005 | |
| 8/17/2021 | | <0.005 | | | <0.005 | <0.005 |
| 8/18/2021 | <0.005 | | | | | |
| 8/19/2021 | | | <0.005 | <0.005 | | |
| 2/9/2022 | <0.005 | | | <0.005 | 0.0017 (J) | |
| 2/10/2022 | | <0.005 | <0.005 | | | <0.005 |
| 8/3/2022 | | | <0.005 | | | <0.005 |
| 8/4/2022 | <0.005 | <0.005 | | <0.005 | <0.005 | |
| 1/26/2023 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 1/27/2023 | | | | | | <0.005 |
| 8/10/2023 | <0.005 | <0.005 | | <0.005 | | |
| 8/11/2023 | | | | | <0.005 | |
| 8/12/2023 | | | <0.005 | | | <0.005 |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|------------|-------------|------------|------------|--------|
| 3/12/2019 | <0.005 | <0.005 | | | |
| 3/13/2019 | | | <0.005 | <0.005 | <0.005 |
| 4/2/2019 | <0.005 | <0.005 | | | |
| 4/3/2019 | | | <0.005 | <0.005 | <0.005 |
| 9/24/2019 | | <0.005 | | | |
| 9/25/2019 | | | <0.005 | | |
| 9/26/2019 | <0.005 | | | <0.005 | <0.005 |
| 3/2/2020 | | <0.005 | <0.005 | | |
| 3/3/2020 | | | | <0.005 | <0.005 |
| 3/4/2020 | <0.005 | | | | |
| 3/26/2020 | | | <0.005 | | |
| 3/27/2020 | <0.005 | | | <0.005 | |
| 3/30/2020 | | 0.00037 (J) | | | <0.005 |
| 9/16/2020 | | <0.005 | | | |
| 9/17/2020 | | | <0.005 | | |
| 9/21/2020 | <0.005 | | | <0.005 | <0.005 |
| 2/10/2021 | 0.0011 (J) | | | | |
| 2/15/2021 | | <0.005 | | | <0.005 |
| 2/16/2021 | | | <0.005 | <0.005 | |
| 3/15/2021 | <0.005 | <0.005 | | | <0.005 |
| 3/16/2021 | | | <0.005 | <0.005 | |
| 8/16/2021 | | <0.005 | | | |
| 8/17/2021 | | | <0.005 | <0.005 | <0.005 |
| 8/18/2021 | <0.005 | | | | |
| 2/8/2022 | | | | | <0.005 |
| 2/9/2022 | | | 0.0013 (J) | 0.0034 (J) | |
| 2/10/2022 | <0.005 | <0.005 | | | |
| 8/3/2022 | | <0.005 | <0.005 | <0.005 | |
| 8/4/2022 | <0.005 | | | | <0.005 |
| 1/26/2023 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 8/10/2023 | | <0.005 | <0.005 | <0.005 | <0.005 |
| 8/11/2023 | <0.005 | | | | |

Time Series

Constituent: Barium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|---------|
| 5/19/2016 | 0.0346 | 0.114 | 0.111 | | | |
| 5/23/2016 | | | | | | 0.0877 |
| 7/11/2016 | 0.0311 | 0.112 | | | | |
| 7/12/2016 | | | 0.115 | | | 0.0926 |
| 8/30/2016 | 0.0293 | 0.131 | 0.113 | | | |
| 9/1/2016 | | | | | | 0.0994 |
| 10/19/2016 | 0.0293 | 0.111 | 0.123 | | | |
| 10/24/2016 | | | | | | 0.101 |
| 12/6/2016 | 0.0304 | 0.108 | 0.127 | | | |
| 12/7/2016 | | | | | | 0.107 |
| 1/24/2017 | 0.028 | 0.102 | 0.126 | | | |
| 1/26/2017 | | | | | | 0.0538 |
| 3/21/2017 | 0.0275 | 0.095 | 0.12 | | | |
| 3/22/2017 | | | | | | 0.0962 |
| 5/22/2017 | 0.0281 | 0.103 | 0.117 | | | |
| 5/24/2017 | | | | | | 0.0996 |
| 4/2/2018 | 0.026 | 0.099 | | | | |
| 4/3/2018 | | | 0.11 | | | |
| 4/4/2018 | | | | | | 0.084 |
| 6/4/2018 | 0.035 | 0.11 | 0.12 | | | |
| 6/5/2018 | | | | | | 0.086 |
| 10/1/2018 | 0.029 | 0.11 | 0.14 | | | |
| 10/2/2018 | | | | | | 0.076 |
| 3/12/2019 | 0.042 | 0.12 | 0.13 | | | |
| 3/13/2019 | | | | | | 0.044 |
| 4/1/2019 | | | 0.13 | | | |
| 4/2/2019 | 0.04 | 0.13 | | | | |
| 4/3/2019 | | | | | | 0.076 |
| 9/23/2019 | 0.042 | 0.13 | 0.13 | | | |
| 9/27/2019 | | | | | | 0.078 |
| 3/2/2020 | 0.034 | 0.11 | 0.14 | | | |
| 3/3/2020 | | | | | | 0.048 |
| 3/25/2020 | 0.043 | 0.12 | 0.13 | | | |
| 4/1/2020 | | | | | | 0.058 |
| 9/15/2020 | 0.035 | 0.12 | 0.12 | | | |
| 9/16/2020 | | | | 0.26 | 0.24 | 0.068 |
| 11/10/2020 | | | | 0.25 | 0.38 | |
| 12/15/2020 | | | | 0.29 | 0.39 | |
| 1/19/2021 | | | | 0.32 | 0.41 | |
| 2/8/2021 | 0.032 | | | | | |
| 2/9/2021 | | 0.12 | 0.13 | 0.34 | 0.46 | |
| 2/15/2021 | | | | | | 0.06 |
| 3/10/2021 | 0.03 | | | | 0.26 | |
| 3/11/2021 | | 0.07 | 0.13 | 0.32 | | |
| 3/12/2021 | | | | | | 0.058 |
| 8/11/2021 | 0.03 | | | 0.28 | | |
| 8/12/2021 | | 0.12 | 0.11 | | | |
| 8/13/2021 | | | | | 0.22 | |
| 8/17/2021 | | | | | | 0.055 |
| 2/1/2022 | 0.031 | 0.13 | 0.12 | 0.29 | 0.23 | |
| 2/9/2022 | | | | | | 0.042 |
| 8/2/2022 | 0.039 | 0.11 | 0.16 | 0.35 | 0.37 | |

Time Series

Constituent: Barium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|---------|
| 8/3/2022 | | | | | | 0.069 |
| 1/23/2023 | | | 0.13 | | | |
| 1/24/2023 | 0.033 | 0.088 | | 0.28 | 0.18 | |
| 1/27/2023 | | | | | | 0.041 |
| 8/8/2023 | 0.039 | 0.068 | 0.12 | 0.3 | 0.12 | |
| 8/10/2023 | | | | | | 0.045 |

Time Series

Constituent: Barium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|---------|---------|---------|--------|--------|--------|
| 5/20/2016 | | | | 0.0687 | 0.0808 | |
| 5/23/2016 | 0.0466 | 0.133 | 0.0779 | | | 0.117 |
| 7/12/2016 | 0.0616 | 0.135 | 0.0697 | 0.0731 | 0.083 | 0.13 |
| 9/1/2016 | 0.0497 | 0.123 | 0.07 | 0.0747 | 0.0829 | 0.13 |
| 10/20/2016 | | | | 0.072 | 0.0811 | 0.0806 |
| 10/24/2016 | 0.0794 | 0.135 | 0.0882 | | | |
| 12/6/2016 | | | | 0.0752 | 0.0845 | 0.128 |
| 12/7/2016 | 0.1 | 0.13 | 0.0798 | | | |
| 1/25/2017 | | | | 0.0747 | 0.078 | |
| 1/26/2017 | 0.0696 | 0.127 | 0.0738 | | | 0.142 |
| 3/21/2017 | | | | 0.0722 | 0.0791 | |
| 3/22/2017 | 0.0346 | 0.112 | 0.0755 | | | 0.122 |
| 5/23/2017 | | | | 0.0794 | 0.0846 | 0.127 |
| 5/24/2017 | 0.0437 | 0.106 | 0.0627 | | | |
| 4/3/2018 | | | | 0.075 | 0.065 | 0.1 |
| 4/4/2018 | 0.029 | 0.083 | 0.099 | | | |
| 6/5/2018 | 0.039 | | 0.13 | 0.071 | | |
| 6/6/2018 | | 0.09 | | | 0.063 | 0.11 |
| 10/2/2018 | | | | 0.078 | 0.061 | 0.11 |
| 10/3/2018 | 0.033 | 0.087 | | | | |
| 10/5/2018 | | | 0.076 | | | |
| 3/12/2019 | | | | | 0.062 | |
| 3/13/2019 | 0.024 | | 0.1 | 0.083 | | 0.1 |
| 3/14/2019 | | 0.081 | | | | |
| 4/2/2019 | | | | 0.072 | | |
| 4/3/2019 | 0.023 | 0.077 | | | 0.066 | 0.12 |
| 4/5/2019 | | | 0.079 | | | |
| 9/24/2019 | | | | | 0.053 | |
| 9/25/2019 | | | | 0.061 | | |
| 9/26/2019 | | | 0.11 | | | |
| 9/27/2019 | 0.033 | 0.096 | | | | 0.11 |
| 3/3/2020 | 0.022 | 0.092 | | | 0.052 | |
| 3/4/2020 | | | 0.1 | 0.068 | | 0.11 |
| 3/26/2020 | | 0.089 | | | | |
| 3/27/2020 | | | | 0.059 | 0.059 | |
| 3/30/2020 | | | 0.08 | | | |
| 3/31/2020 | 0.026 | | | | | 0.11 |
| 9/16/2020 | | | | 0.068 | 0.06 | |
| 9/17/2020 | | | | | | 0.11 |
| 9/18/2020 | 0.043 | 0.086 | | | | |
| 9/21/2020 | | | 0.052 | | | |
| 2/10/2021 | | | | 0.069 | | |
| 2/12/2021 | 0.039 | 0.09 | | | | |
| 2/16/2021 | | | | | 0.069 | 0.11 |
| 2/22/2021 | | | 0.061 | | | |
| 3/15/2021 | | | | 0.074 | 0.063 | |
| 3/16/2021 | 0.035 | 0.084 | | | | 0.11 |
| 3/17/2021 | | | 0.056 | | | |
| 8/16/2021 | | | | 0.068 | | |
| 8/17/2021 | | | | | | 0.095 |
| 8/18/2021 | 0.04 | 0.083 | | | 0.062 | |
| 8/19/2021 | | | 0.049 | | | |

Time Series

Constituent: Barium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|---------|---------|--------|--------|--------|
| 2/9/2022 | 0.042 | 0.075 | | | | 0.096 |
| 2/10/2022 | | | 0.053 | 0.063 | 0.056 | |
| 8/3/2022 | 0.041 | 0.086 | 0.07 | 0.066 | 0.06 | |
| 8/4/2022 | | | | | | 0.091 |
| 8/11/2022 | | | | 0.071 | | |
| 1/26/2023 | 0.031 | 0.076 | 0.079 | | | 0.069 |
| 1/27/2023 | | | | 0.065 | | |
| 2/1/2023 | | | | | 0.058 | |
| 8/10/2023 | 0.027 | 0.075 | | | | |
| 8/11/2023 | | | | | | 0.068 |
| 8/12/2023 | | | 0.057 | 0.06 | 0.052 | |

Time Series

Constituent: Barium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------|-------|--------|--------|--------|--------|
| 3/13/2019 | | 0.087 | 0.053 | | 0.099 | 1.5 |
| 3/14/2019 | 0.06 | | | 0.44 | | |
| 4/2/2019 | | 0.08 | | | | |
| 4/3/2019 | 0.05 | | | 0.38 | 0.12 | |
| 4/4/2019 | | | | | | 1.2 |
| 4/8/2019 | | | 0.043 | | | |
| 9/25/2019 | | 0.085 | | | | |
| 9/26/2019 | | | 0.12 | | 0.12 | 0.95 |
| 9/27/2019 | 0.068 | | | 0.39 | | |
| 3/2/2020 | | 0.099 | | | | |
| 3/3/2020 | | | | 0.42 | | |
| 3/4/2020 | 0.069 | | 0.081 | | 0.17 | 0.95 |
| 3/26/2020 | 0.067 | | | 0.45 | | |
| 3/27/2020 | | 0.093 | | | | |
| 3/30/2020 | | | 0.056 | | | |
| 3/31/2020 | | | | | 0.11 | |
| 4/2/2020 | | | | | | 1 |
| 9/17/2020 | | 0.096 | | | 0.099 | |
| 9/18/2020 | | | | 0.44 | | 1 |
| 9/21/2020 | 0.056 | | 0.053 | | | |
| 2/11/2021 | | 0.093 | | | | |
| 2/12/2021 | 0.051 | | | 0.46 | | |
| 2/16/2021 | | | 0.062 | | 0.093 | 1 |
| 3/12/2021 | | | | | | 1.1 |
| 3/15/2021 | | 0.096 | | | | |
| 3/16/2021 | | | | 0.51 | | |
| 3/17/2021 | 0.049 | | 0.055 | | 0.094 | |
| 8/17/2021 | | 0.089 | | | 0.072 | 1.1 |
| 8/18/2021 | 0.045 | | | | | |
| 8/19/2021 | | | 0.048 | 0.58 | | |
| 2/9/2022 | 0.042 | | | 0.6 | 0.066 | |
| 2/10/2022 | | 0.082 | 0.048 | | | 0.99 |
| 8/3/2022 | | | 0.053 | | | 0.94 |
| 8/4/2022 | 0.05 | 0.093 | | 0.75 | 0.062 | |
| 1/26/2023 | 0.039 | 0.097 | 0.054 | 0.65 | 0.065 | |
| 1/27/2023 | | | | | | 0.94 |
| 8/10/2023 | 0.032 | 0.093 | | 0.71 | | |
| 8/11/2023 | | | | | 0.059 | |
| 8/12/2023 | | | 0.053 | | | 0.98 |

Time Series

Constituent: Barium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|--------|-------|-------|-------|-------|
| 3/12/2019 | 0.82 | 0.089 | | | |
| 3/13/2019 | | | 0.056 | 0.1 | 0.063 |
| 4/2/2019 | 0.37 | 0.078 | | | |
| 4/3/2019 | | | 0.049 | 0.09 | 0.058 |
| 9/24/2019 | | 0.081 | | | |
| 9/25/2019 | | | 0.046 | | |
| 9/26/2019 | 0.15 | | | 0.089 | 0.066 |
| 3/2/2020 | | 0.088 | 0.049 | | |
| 3/3/2020 | | | | 0.09 | 0.043 |
| 3/4/2020 | 0.77 | | | | |
| 3/26/2020 | | | 0.046 | | |
| 3/27/2020 | 0.64 | | | 0.086 | |
| 3/30/2020 | | 0.08 | | | 0.05 |
| 9/16/2020 | | 0.076 | | | |
| 9/17/2020 | | | 0.043 | | |
| 9/21/2020 | 0.18 | | | 0.083 | 0.065 |
| 2/10/2021 | 0.26 | | | | |
| 2/15/2021 | | 0.081 | | | 0.048 |
| 2/16/2021 | | | 0.05 | 0.085 | |
| 3/15/2021 | 0.45 | 0.078 | | | 0.053 |
| 3/16/2021 | | | 0.046 | 0.081 | |
| 8/16/2021 | | 0.074 | | | |
| 8/17/2021 | | | 0.045 | 0.081 | 0.057 |
| 8/18/2021 | 0.53 | | | | |
| 2/8/2022 | | | | | 0.053 |
| 2/9/2022 | | | 0.042 | 0.074 | |
| 2/10/2022 | 0.76 | 0.072 | | | |
| 8/3/2022 | | 0.081 | 0.058 | 0.084 | |
| 8/4/2022 | 0.7 | | | | 0.064 |
| 1/26/2023 | 0.8 | 0.076 | 0.05 | 0.079 | 0.044 |
| 8/10/2023 | | 0.066 | 0.048 | 0.066 | 0.059 |
| 8/11/2023 | 2.2 | | | | |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|---------|
| 5/19/2016 | <0.0005 | <0.003 | <0.0005 | | | |
| 5/23/2016 | | | | | | <0.0005 |
| 7/11/2016 | <0.0005 | 0.0001 (J) | | | | |
| 7/12/2016 | | | <0.0005 | | | <0.0005 |
| 8/30/2016 | <0.0005 | <0.003 | <0.0005 | | | |
| 9/1/2016 | | | | | | <0.0005 |
| 10/19/2016 | <0.0005 | 0.0001 (J) | <0.0005 | | | |
| 10/24/2016 | | | | | | <0.0005 |
| 12/6/2016 | <0.0005 | 0.0002 (J) | <0.0005 | | | |
| 12/7/2016 | | | | | | <0.0005 |
| 1/24/2017 | <0.0005 | 0.0001 (J) | <0.0005 | | | |
| 1/26/2017 | | | | | | <0.0005 |
| 3/21/2017 | <0.0005 | 0.0001 (J) | <0.0005 | | | |
| 3/22/2017 | | | | | | <0.0005 |
| 5/22/2017 | <0.0005 | 0.0001 (J) | <0.0005 | | | |
| 5/24/2017 | | | | | | <0.0005 |
| 4/2/2018 | <0.0005 | <0.003 | | | | |
| 4/3/2018 | | | <0.0005 | | | |
| 4/4/2018 | | | | | | <0.0005 |
| 3/12/2019 | <0.0005 | 0.00017 (J) | <0.0005 | | | |
| 3/13/2019 | | | | | | <0.0005 |
| 4/1/2019 | | | <0.0005 | | | |
| 4/2/2019 | <0.0005 | 0.00015 (J) | | | | |
| 4/3/2019 | | | | | | <0.0005 |
| 9/23/2019 | <0.0005 | 0.00011 (J) | <0.0005 | | | |
| 9/27/2019 | | | | | | <0.0005 |
| 3/2/2020 | <0.0005 | 0.00014 (J) | <0.0005 | | | |
| 3/3/2020 | | | | | | <0.0005 |
| 3/25/2020 | <0.0005 | 0.00016 (J) | <0.0005 | | | |
| 4/1/2020 | | | | | | <0.0005 |
| 9/15/2020 | <0.0005 | 0.00013 (J) | <0.0005 | | | |
| 9/16/2020 | | | | <0.0005 | <0.0005 | <0.0005 |
| 11/10/2020 | | | | <0.0005 | <0.0005 | |
| 12/15/2020 | | | | <0.0005 | <0.0005 | |
| 1/19/2021 | | | | <0.0005 | <0.0005 | |
| 2/8/2021 | <0.0005 | | | | | |
| 2/9/2021 | | 0.00014 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 2/15/2021 | | | | | | <0.0005 |
| 3/10/2021 | <0.0005 | | | | <0.0005 | |
| 3/11/2021 | | 8.6E-05 (J) | <0.0005 | <0.0005 | | |
| 3/12/2021 | | | | | | <0.0005 |
| 8/11/2021 | <0.0005 | | | <0.0005 | | |
| 8/12/2021 | | 0.00014 (J) | <0.0005 | | | |
| 8/13/2021 | | | | <0.0005 | | |
| 8/17/2021 | | | | | | <0.0005 |
| 2/1/2022 | <0.0005 | 0.0002 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 2/9/2022 | | | | | | <0.0005 |
| 8/2/2022 | <0.0005 | 0.00019 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 8/3/2022 | | | | | | <0.0005 |
| 1/23/2023 | | | <0.0005 | | | |
| 1/24/2023 | <0.0005 | 0.00016 (J) | | <0.0005 | <0.0005 | |
| 1/27/2023 | | | | | | <0.0005 |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|---------|
| 8/8/2023 | <0.0005 | 0.00022 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 8/10/2023 | | | | | | <0.0005 |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-------------|---------|-------------|-------------|-------------|---------|
| 5/20/2016 | | | | <0.0005 | <0.0005 | |
| 5/23/2016 | <0.0005 | <0.0005 | <0.0005 | | | <0.0005 |
| 7/12/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 9/1/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 10/20/2016 | | | | <0.0005 | <0.0005 | <0.0005 |
| 10/24/2016 | <0.0005 | <0.0005 | <0.0005 | | | |
| 12/6/2016 | | | | <0.0005 | <0.0005 | <0.0005 |
| 12/7/2016 | <0.0005 | <0.0005 | <0.0005 | | | |
| 1/25/2017 | | | | <0.0005 | <0.0005 | |
| 1/26/2017 | <0.0005 | <0.0005 | <0.0005 | | | <0.0005 |
| 3/21/2017 | | | | <0.0005 | <0.0005 | |
| 3/22/2017 | 9E-05 (J) | <0.0005 | <0.0005 | | | <0.0005 |
| 5/23/2017 | | | | <0.0005 | <0.0005 | <0.0005 |
| 5/24/2017 | <0.0005 | <0.0005 | <0.0005 | | | |
| 4/3/2018 | | | | <0.0005 | <0.0005 | <0.0005 |
| 4/4/2018 | <0.0005 | <0.0005 | <0.0005 | | | |
| 3/12/2019 | | | | | <0.0005 | |
| 3/13/2019 | 0.0001 (J) | | 6.2E-05 (J) | <0.0005 | | <0.0005 |
| 3/14/2019 | | <0.0005 | | | | |
| 4/2/2019 | | | | <0.0005 | | |
| 4/3/2019 | 0.00017 (J) | <0.0005 | | | 7.4E-05 (J) | <0.0005 |
| 4/5/2019 | | | <0.0005 | | | |
| 9/24/2019 | | | | | <0.0005 | |
| 9/25/2019 | | | | <0.0005 | | |
| 9/26/2019 | | | 0.00011 (J) | | | |
| 9/27/2019 | 8.6E-05 (J) | <0.0005 | | | | <0.0005 |
| 3/3/2020 | 0.00012 (J) | <0.0005 | | | <0.0005 | |
| 3/4/2020 | | | 9.3E-05 (J) | 7.7E-05 (J) | | <0.0005 |
| 3/26/2020 | | <0.0005 | | | | |
| 3/27/2020 | | | | <0.0005 | <0.0005 | |
| 3/30/2020 | | | 9.9E-05 (J) | | | |
| 3/31/2020 | 0.00015 (J) | | | | | <0.0005 |
| 9/16/2020 | | | | <0.0005 | 0.0001 (J) | |
| 9/17/2020 | | | | | | <0.0005 |
| 9/18/2020 | <0.0005 | <0.0005 | | | | |
| 9/21/2020 | | | 0.00011 (J) | | | |
| 2/10/2021 | | | | 8.1E-05 (J) | | |
| 2/12/2021 | <0.0005 | <0.0005 | | | | |
| 2/16/2021 | | | | | 7.1E-05 (J) | <0.0005 |
| 2/22/2021 | | | 9.7E-05 (J) | | | |
| 3/15/2021 | | | | 0.00019 (J) | 7.8E-05 (J) | |
| 3/16/2021 | 8.1E-05 (J) | <0.0005 | | | | <0.0005 |
| 3/17/2021 | | | 9E-05 (J) | | | |
| 8/16/2021 | | | | <0.0005 | | |
| 8/17/2021 | | | | | | <0.0005 |
| 8/18/2021 | <0.0005 | <0.0005 | | | 8.7E-05 (J) | |
| 8/19/2021 | | | 7.3E-05 (J) | | | |
| 2/9/2022 | <0.0005 | <0.0005 | | | | <0.0005 |
| 2/10/2022 | | | <0.0005 | <0.0005 | 7.1E-05 (J) | |
| 8/3/2022 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 5.6E-05 (J) | |
| 8/4/2022 | | | | | | <0.0005 |
| 8/11/2022 | | | | <0.0005 | | |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|-------------|---------|-------------|---------|-------------|---------|
| 1/26/2023 | <0.0005 | <0.0005 | 9.9E-05 (J) | | | <0.0005 |
| 1/27/2023 | | | | <0.0005 | | |
| 2/1/2023 | | | | | 5.6E-05 (J) | |
| 8/10/2023 | 6.9E-05 (J) | <0.0005 | | | | |
| 8/11/2023 | | | | | | <0.0005 |
| 8/12/2023 | | | 0.0001 (J) | <0.0005 | <0.0005 | |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------------|---------|---------|---------|---------|---------|
| 3/13/2019 | | <0.0005 | <0.0005 | | <0.0005 | <0.0005 |
| 3/14/2019 | <0.0005 | | | <0.0005 | | |
| 4/2/2019 | | <0.0005 | | | | |
| 4/3/2019 | <0.0005 | | | <0.0005 | <0.0005 | |
| 4/4/2019 | | | | | | <0.0005 |
| 4/8/2019 | | | <0.0005 | | | |
| 9/25/2019 | | <0.0005 | | | | |
| 9/26/2019 | | | <0.0005 | | <0.0005 | <0.0005 |
| 9/27/2019 | <0.0005 | | | <0.0005 | | |
| 3/2/2020 | | <0.0005 | | | | |
| 3/3/2020 | | | | <0.0005 | | |
| 3/4/2020 | <0.0005 | | <0.0005 | | <0.0005 | <0.0005 |
| 3/26/2020 | <0.0005 | | | <0.0005 | | |
| 3/27/2020 | | <0.0005 | | | | |
| 3/30/2020 | | | <0.0005 | | | |
| 3/31/2020 | | | | | <0.0005 | |
| 4/2/2020 | | | | | | <0.0005 |
| 9/17/2020 | | <0.0005 | | | <0.0005 | |
| 9/18/2020 | | | | <0.0005 | | <0.0005 |
| 9/21/2020 | <0.0005 | | <0.0005 | | | |
| 2/11/2021 | | <0.0005 | | | | |
| 2/12/2021 | <0.0005 | | | <0.0005 | | |
| 2/16/2021 | | | <0.0005 | | <0.0005 | <0.0005 |
| 3/12/2021 | | | | | | <0.0005 |
| 3/15/2021 | | <0.0005 | | | | |
| 3/16/2021 | | | | <0.0005 | | |
| 3/17/2021 | <0.0005 | | <0.0005 | | <0.0005 | |
| 8/17/2021 | | <0.0005 | | | <0.0005 | <0.0005 |
| 8/18/2021 | 5.8E-05 (J) | | | | | |
| 8/19/2021 | | | <0.0005 | <0.0005 | | |
| 2/9/2022 | <0.0005 | | | <0.0005 | <0.0005 | |
| 2/10/2022 | | <0.0005 | <0.0005 | | | <0.0005 |
| 8/3/2022 | | | <0.0005 | | | <0.0005 |
| 8/4/2022 | <0.0005 | <0.0005 | | <0.0005 | <0.0005 | |
| 1/26/2023 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 1/27/2023 | | | | | | <0.0005 |
| 8/10/2023 | <0.0005 | <0.0005 | | <0.0005 | | |
| 8/11/2023 | | | | | <0.0005 | |
| 8/12/2023 | | | <0.0005 | | | <0.0005 |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|-------------|---------|---------|---------|-------------|
| 3/12/2019 | <0.0005 | <0.0005 | | | |
| 3/13/2019 | | | <0.0005 | <0.0005 | <0.0005 |
| 4/2/2019 | <0.0005 | <0.0005 | | | |
| 4/3/2019 | | | <0.0005 | <0.0005 | 5.1E-05 (J) |
| 9/24/2019 | | <0.0005 | | | |
| 9/25/2019 | | | <0.0005 | | |
| 9/26/2019 | <0.0005 | | | <0.0005 | <0.0005 |
| 3/2/2020 | | <0.0005 | <0.0005 | | |
| 3/3/2020 | | | | <0.0005 | <0.0005 |
| 3/4/2020 | 0.00014 (J) | | | | |
| 3/26/2020 | | | <0.0005 | | |
| 3/27/2020 | <0.0005 | | | <0.0005 | |
| 3/30/2020 | | <0.0005 | | | <0.0005 |
| 9/16/2020 | | <0.0005 | | | |
| 9/17/2020 | | | <0.0005 | | |
| 9/21/2020 | <0.0005 | | | <0.0005 | <0.0005 |
| 2/10/2021 | 5.4E-05 (J) | | | | |
| 2/15/2021 | | <0.0005 | | | <0.0005 |
| 2/16/2021 | | | <0.0005 | <0.0005 | |
| 3/15/2021 | 4.8E-05 (J) | <0.0005 | | | <0.0005 |
| 3/16/2021 | | | <0.0005 | <0.0005 | |
| 8/16/2021 | | <0.0005 | | | |
| 8/17/2021 | | | <0.0005 | <0.0005 | <0.0005 |
| 8/18/2021 | <0.0005 | | | | |
| 2/8/2022 | | | | | <0.0005 |
| 2/9/2022 | | | <0.0005 | <0.0005 | |
| 2/10/2022 | <0.0005 | <0.0005 | | | |
| 8/3/2022 | | <0.0005 | <0.0005 | <0.0005 | |
| 8/4/2022 | <0.0005 | | | | <0.0005 |
| 1/26/2023 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 8/10/2023 | | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 8/11/2023 | <0.0005 | | | | |

Time Series

Constituent: Boron (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|---------|
| 5/19/2016 | 0.0214 (J) | 0.0321 (J) | <0.04 | | | |
| 5/23/2016 | | | | | | 0.72 |
| 7/11/2016 | 0.0142 (J) | 0.0337 (J) | | | | |
| 7/12/2016 | | | 0.0074 (J) | | | 0.778 |
| 8/30/2016 | 0.0074 (J) | 0.0173 (J) | <0.04 | | | |
| 9/1/2016 | | | | | | 0.786 |
| 10/19/2016 | 0.0224 (J) | 0.0341 (J) | 0.0085 (J) | | | |
| 10/24/2016 | | | | | | 0.831 |
| 12/6/2016 | 0.0211 (J) | 0.0326 (J) | 0.0085 (J) | | | |
| 12/7/2016 | | | | | | 1.01 |
| 1/24/2017 | 0.0165 (J) | 0.0365 (J) | 0.01 (J) | | | |
| 1/26/2017 | | | | | | 0.108 |
| 3/21/2017 | 0.0187 (J) | 0.0349 (J) | 0.0079 (J) | | | |
| 3/22/2017 | | | | | | 0.788 |
| 5/22/2017 | 0.0782 | 0.0475 | 0.0131 (J) | | | |
| 5/24/2017 | | | | | | 0.814 |
| 10/3/2017 | 0.0198 (J) | 0.0386 (J) | 0.0097 (J) | | | 0.871 |
| 6/4/2018 | 0.02 (J) | 0.036 (J) | 0.017 (J) | | | |
| 6/5/2018 | | | | | | 1.2 |
| 10/1/2018 | 0.013 (J) | 0.035 (J) | 0.0061 (J) | | | |
| 10/2/2018 | | | | | | 0.62 |
| 4/1/2019 | | | 0.0066 (J) | | | |
| 4/2/2019 | 0.016 (J) | 0.034 (J) | | | | |
| 4/3/2019 | | | | | | 0.66 |
| 9/23/2019 | 0.021 (J) | 0.04 (J) | 0.0081 (J) | | | |
| 9/27/2019 | | | | | | 1 |
| 3/25/2020 | 0.025 (J) | 0.039 (J) | 0.0096 (J) | | | |
| 4/1/2020 | | | | | | 0.23 |
| 6/16/2020 | 0.021 (J) | | 0.01 (J) | | | |
| 9/15/2020 | 0.017 (J) | 0.044 (J) | 0.0071 (J) | | | |
| 9/16/2020 | | | | 0.061 (J) | 0.23 | 1.1 |
| 11/10/2020 | | | | 0.057 (J) | 0.29 | |
| 12/15/2020 | | | | 0.052 (J) | 0.31 | |
| 1/19/2021 | | | | 0.049 (J) | 0.4 | |
| 3/10/2021 | 0.015 (J) | | | | 0.39 | |
| 3/11/2021 | | 0.056 | 0.015 (J) | 0.06 | | |
| 3/12/2021 | | | | | | 0.64 |
| 8/11/2021 | 0.02 (J) | | | 0.042 | | |
| 8/12/2021 | | 0.044 | <0.04 | | | |
| 8/13/2021 | | | | | 0.31 | |
| 8/17/2021 | | | | | | 0.88 |
| 2/1/2022 | 0.016 (J) | 0.056 | 0.011 (J) | 0.05 | 0.44 | |
| 2/9/2022 | | | | | | 0.1 |
| 8/2/2022 | 0.012 (J) | 0.047 | <0.04 | 0.043 | 0.31 | |
| 8/3/2022 | | | | | | 0.53 |
| 1/23/2023 | | | 0.012 (J) | | | |
| 1/24/2023 | 0.015 (J) | 0.046 | | 0.037 (J) | 0.44 | |
| 1/27/2023 | | | | | | 0.065 |
| 8/8/2023 | 0.023 (J) | 0.06 | 0.011 (J) | 0.038 (J) | 0.55 | |
| 8/10/2023 | | | | | | 0.65 |

Time Series

Constituent: Boron (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|---------|---------|----------|--------|--------|--------|
| 5/20/2016 | | | | 0.885 | 1.71 | |
| 5/23/2016 | 0.787 | 2.2 | 2.15 | | | 1.76 |
| 7/12/2016 | 1.17 | 1.98 | 1.91 | 0.857 | 1.43 | 1.56 |
| 9/1/2016 | 1.49 | 2.28 | 2.3 | 0.904 | 1.91 | 2 |
| 10/20/2016 | | | | 0.936 | 1.72 | 1.68 |
| 10/24/2016 | 2.54 | 2.75 | 4.01 | | | |
| 12/6/2016 | | | | 1.06 | 2.06 | 2.15 |
| 12/7/2016 | 2.96 | 3.35 | 3.85 | | | |
| 1/25/2017 | | | | 0.764 | 2.01 | |
| 1/26/2017 | 2.23 | 3.07 | 2.45 | | | 1.87 |
| 3/21/2017 | | | | 0.857 | 2.08 | |
| 3/22/2017 | 0.84 | 3.04 | 1.99 | | | 1.99 |
| 5/23/2017 | | | | 0.91 | 2.32 | 2.29 |
| 5/24/2017 | 2.29 | 2.95 | 1.74 | | | |
| 10/3/2017 | 1.47 | 2.35 | 1.43 | 0.967 | 2.84 | 2.05 |
| 6/5/2018 | 1.3 | | 1.3 | 0.86 | | |
| 6/6/2018 | | 2.5 | | | 2.6 | 2.3 |
| 10/2/2018 | | | | 0.98 | 2.7 | 2.5 |
| 10/3/2018 | 0.91 | 2.3 | | | | |
| 10/5/2018 | | | 1.6 | | | |
| 4/2/2019 | | | | 0.99 | | |
| 4/3/2019 | 0.23 | 1.8 | | | 2.8 | 2.3 |
| 4/5/2019 | | | 0.86 (J) | | | |
| 9/24/2019 | | | | | 2.8 | |
| 9/25/2019 | | | | 1.1 | | |
| 9/26/2019 | | | 1.7 | | | |
| 9/27/2019 | 0.53 | 2.1 | | | | 2.9 |
| 3/26/2020 | | 1.6 | | | | |
| 3/27/2020 | | | | 1.2 | 2.4 | |
| 3/30/2020 | | | 1.8 | | | |
| 3/31/2020 | 0.17 | | | | | 2.2 |
| 6/16/2020 | | | | | 2.2 | |
| 6/17/2020 | | | | 1 | | |
| 9/16/2020 | | | | 1.1 | 1.9 | |
| 9/17/2020 | | | | | | 2 |
| 9/18/2020 | 0.91 | 1.6 | | | | |
| 9/21/2020 | | | 1.6 | | | |
| 3/15/2021 | | | | 1.1 | 1.7 | |
| 3/16/2021 | 0.53 | 1.9 | | | | 2.2 |
| 3/17/2021 | | | 0.89 | | | |
| 8/16/2021 | | | | 1.1 | | |
| 8/17/2021 | | | | | | 2.3 |
| 8/18/2021 | 0.91 | 1.9 | | | 1.8 | |
| 8/19/2021 | | | 0.73 | | | |
| 2/9/2022 | 1 | 2 | | | | 2.3 |
| 2/10/2022 | | | 1 | 1.3 | 1.7 | |
| 8/3/2022 | 0.64 | 1.5 | 0.76 | 1.1 | 1.5 | |
| 8/4/2022 | | | | | | 2 |
| 8/11/2022 | | | | 1.1 | | |
| 1/26/2023 | 0.5 | 1.5 | 0.83 | | | 1.9 |
| 1/27/2023 | | | | 0.93 | | |
| 2/1/2023 | | | | | 1.9 | |

Time Series

Constituent: Boron (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|---------|---------|--------|--------|--------|
| 8/10/2023 | 0.44 | 1.4 | | | | |
| 8/11/2023 | | | | | | 2.1 |
| 8/12/2023 | | | 1 | 0.82 | 1.7 | |

Time Series

Constituent: Boron (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------|-------|----------|--------|--------|----------|
| 4/2/2019 | | 0.11 | | | | |
| 4/3/2019 | 0.63 | | | 0.37 | 1.5 | |
| 4/4/2019 | | | | | | 0.12 (J) |
| 4/8/2019 | | | 0.47 (J) | | | |
| 9/25/2019 | | 0.091 | | | | |
| 9/26/2019 | | | 0.49 | | 2 | 0.14 |
| 9/27/2019 | 0.58 | | | 0.36 | | |
| 3/26/2020 | 1 | | | 0.44 | | |
| 3/27/2020 | | 0.12 | | | | |
| 3/30/2020 | | | 0.51 | | | |
| 3/31/2020 | | | | | 1.8 | |
| 4/2/2020 | | | | | | 0.13 |
| 9/17/2020 | | 0.11 | | | 2 | |
| 9/18/2020 | | | | 0.36 | | 0.12 |
| 9/21/2020 | 0.89 | | 0.45 | | | |
| 3/12/2021 | | | | | | 0.13 |
| 3/15/2021 | | 0.12 | | | | |
| 3/16/2021 | | | | 0.4 | | |
| 3/17/2021 | 0.69 | | 0.49 | | 2.1 | |
| 8/17/2021 | | 0.11 | | | 2.2 | 0.14 |
| 8/18/2021 | 0.55 | | | | | |
| 8/19/2021 | | | 0.52 | 0.4 | | |
| 2/9/2022 | 0.49 | | | 0.43 | 2.3 | |
| 2/10/2022 | | 0.13 | 0.55 | | | 0.13 |
| 8/3/2022 | | | 0.49 | | | 0.12 |
| 8/4/2022 | 0.58 | 0.11 | | 0.35 | 2 | |
| 1/26/2023 | 0.36 | 0.099 | 0.47 | 0.3 | 1.8 | |
| 1/27/2023 | | | | | | 0.12 |
| 8/10/2023 | 0.53 | 0.1 | | 0.31 | | |
| 8/11/2023 | | | | | 1.6 | |
| 8/12/2023 | | | 0.55 | | | 0.13 |

Time Series

Constituent: Boron (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|--------|-------|-----------|------|-----------|
| 4/2/2019 | 0.17 | 1.2 | | | |
| 4/3/2019 | | | 0.03 (J) | 0.67 | 0.094 |
| 9/24/2019 | | 1.2 | | | |
| 9/25/2019 | | | 0.11 | | |
| 9/26/2019 | 0.6 | | | 0.93 | 0.26 |
| 3/26/2020 | | | 0.041 (J) | | |
| 3/27/2020 | 0.14 | | | 0.77 | |
| 3/30/2020 | | 1.3 | | | 0.051 (J) |
| 9/16/2020 | | 1.7 | | | |
| 9/17/2020 | | | 0.067 (J) | | |
| 9/21/2020 | 0.45 | | | 0.82 | 0.2 |
| 3/15/2021 | 0.36 | 1.2 | | | 0.16 |
| 3/16/2021 | | | 0.037 (J) | 0.81 | |
| 8/16/2021 | | 1.1 | | | |
| 8/17/2021 | | | 0.026 (J) | 0.85 | 0.2 |
| 8/18/2021 | 0.72 | | | | |
| 2/8/2022 | | | | | 0.19 |
| 2/9/2022 | | | 0.042 | 0.96 | |
| 2/10/2022 | 0.23 | 1.4 | | | |
| 8/3/2022 | | 1.1 | 0.034 (J) | 0.75 | |
| 8/4/2022 | 0.55 | | | | 0.14 |
| 1/26/2023 | 0.29 | 1 | 0.044 | 0.71 | 0.033 (J) |
| 8/10/2023 | | 1.1 | 0.037 (J) | 0.65 | 0.13 |
| 8/11/2023 | 0.12 | | | | |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|--------------|
| 5/19/2016 | <0.0005 | <0.0005 | <0.0005 | | | |
| 5/23/2016 | | | | | | 0.000115 (J) |
| 7/11/2016 | <0.0005 | <0.0005 | | | | |
| 7/12/2016 | | | <0.0005 | | | <0.0005 |
| 8/30/2016 | <0.0005 | <0.0005 | <0.0005 | | | |
| 9/1/2016 | | | | | | 0.0001 (J) |
| 10/19/2016 | <0.0005 | <0.0005 | <0.0005 | | | |
| 10/24/2016 | | | | | | 0.0001 (J) |
| 12/6/2016 | <0.0005 | <0.0005 | <0.0005 | | | |
| 12/7/2016 | | | | | | 0.0001 (J) |
| 1/24/2017 | <0.0005 | 0.0001 (J) | <0.0005 | | | |
| 1/26/2017 | | | | | | <0.0005 |
| 3/21/2017 | <0.0005 | 7E-05 (J) | <0.0005 | | | |
| 3/22/2017 | | | | | | 0.0001 (J) |
| 5/22/2017 | <0.0005 | 0.0001 (J) | <0.0005 | | | |
| 5/24/2017 | | | | | | 0.0002 (J) |
| 4/2/2018 | <0.0005 | <0.0005 | | | | |
| 4/3/2018 | | | <0.0005 | | | |
| 4/4/2018 | | | | | | <0.0005 |
| 3/12/2019 | <0.0005 | 0.00013 (J) | <0.0005 | | | |
| 3/13/2019 | | | | | | <0.0005 |
| 4/1/2019 | | | <0.0005 | | | |
| 4/2/2019 | <0.0005 | 0.00015 (J) | | | | |
| 4/3/2019 | | | | | | 0.0001 (J) |
| 9/23/2019 | <0.0005 | <0.0005 | <0.0005 | | | |
| 9/27/2019 | | | | | | <0.0005 |
| 3/2/2020 | <0.0005 | <0.0005 | <0.0005 | | | |
| 3/3/2020 | | | | | | <0.0005 |
| 3/25/2020 | <0.0005 | 0.00014 (J) | <0.0005 | | | |
| 4/1/2020 | | | | | | <0.0005 |
| 9/15/2020 | <0.0005 | 0.00012 (J) | <0.0005 | | | |
| 9/16/2020 | | | | <0.0005 | <0.0005 | <0.0005 |
| 11/10/2020 | | | | <0.0005 | <0.0005 | |
| 12/15/2020 | | | | <0.0005 | <0.0005 | |
| 1/19/2021 | | | | <0.0005 | <0.0005 | |
| 2/8/2021 | <0.0005 | | | | | |
| 2/9/2021 | | 0.00016 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 2/15/2021 | | | | | | <0.0005 |
| 3/10/2021 | <0.0005 | | | | <0.0005 | |
| 3/11/2021 | | <0.0005 | <0.0005 | <0.0005 | | |
| 3/12/2021 | | | | | | <0.0005 |
| 8/11/2021 | <0.0005 | | | <0.0005 | | |
| 8/12/2021 | | 0.00014 (J) | <0.0005 | | | |
| 8/13/2021 | | | | | <0.0005 | |
| 8/17/2021 | | | | | | <0.0005 |
| 2/1/2022 | <0.0005 | 0.00017 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 2/9/2022 | | | | | | <0.0005 |
| 8/2/2022 | <0.0005 | 0.00023 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 8/3/2022 | | | | | | <0.0005 |
| 1/23/2023 | | | <0.0005 | | | |
| 1/24/2023 | <0.0005 | 0.00021 (J) | | <0.0005 | <0.0005 | |
| 1/27/2023 | | | | | | <0.0005 |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|---------|
| 8/8/2023 | <0.0005 | 0.00026 (J) | <0.0005 | <0.0005 | <0.0005 | |
| 8/10/2023 | | | | | | <0.0005 |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-------------|-------------|---------|------------|-------------|------------|
| 5/20/2016 | | | | <0.0005 | 0.00024 (J) | |
| 5/23/2016 | <0.0005 | <0.0005 | <0.0005 | | | <0.0005 |
| 7/12/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.0002 (J) | <0.0005 |
| 9/1/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.0001 (J) | <0.0005 |
| 10/20/2016 | | | | <0.0005 | 0.0001 (J) | 0.0002 (J) |
| 10/24/2016 | <0.0005 | <0.0005 | <0.0005 | | | |
| 12/6/2016 | | | | 0.0002 (J) | 0.0017 | 0.0001 (J) |
| 12/7/2016 | 0.0001 (J) | 0.0002 (J) | <0.0005 | | | |
| 1/25/2017 | | | | 0.0002 (J) | 0.0002 (J) | |
| 1/26/2017 | <0.0005 | <0.0005 | <0.0005 | | | <0.0005 |
| 3/21/2017 | | | | 0.0002 (J) | 0.0002 (J) | |
| 3/22/2017 | 0.0001 (J) | 0.0003 (J) | <0.0005 | | | 7E-05 (J) |
| 5/23/2017 | | | | 0.0001 (J) | 0.0003 (J) | <0.0005 |
| 5/24/2017 | <0.0005 | 9E-05 (J) | <0.0005 | | | |
| 4/3/2018 | | | | <0.0005 | <0.001 | <0.0005 |
| 4/4/2018 | <0.0005 | <0.0005 | <0.0005 | | | |
| 3/12/2019 | | | | | 0.0002 (J) | |
| 3/13/2019 | <0.0005 | | <0.0005 | <0.0005 | | <0.0005 |
| 3/14/2019 | | <0.0005 | | | | |
| 4/2/2019 | | | | <0.0005 | | |
| 4/3/2019 | 9.6E-05 (J) | <0.0005 | | | 0.00032 (J) | <0.0005 |
| 4/5/2019 | | | <0.0005 | | | |
| 9/24/2019 | | | | | 0.0002 (J) | |
| 9/25/2019 | | | | <0.0005 | | |
| 9/26/2019 | | | <0.0005 | | | |
| 9/27/2019 | <0.0005 | <0.0005 | | | | <0.0005 |
| 3/3/2020 | <0.0005 | 0.00015 (J) | | | 0.00017 (J) | |
| 3/4/2020 | | | <0.0005 | <0.0005 | | <0.0005 |
| 3/26/2020 | | <0.0005 | | | | |
| 3/27/2020 | | | | <0.0005 | 0.00014 (J) | |
| 3/30/2020 | | | <0.0005 | | | |
| 3/31/2020 | <0.0005 | | | | | <0.0005 |
| 9/16/2020 | | | | <0.0005 | 0.00023 (J) | |
| 9/17/2020 | | | | | | <0.0005 |
| 9/18/2020 | <0.0005 | <0.0005 | | | | |
| 9/21/2020 | | | <0.0005 | | | |
| 2/10/2021 | | | | <0.0005 | | |
| 2/12/2021 | <0.0005 | <0.0005 | | | | |
| 2/16/2021 | | | | | 0.00037 (J) | <0.0005 |
| 2/22/2021 | | | <0.0005 | | | |
| 3/15/2021 | | | | <0.0005 | 0.00017 (J) | |
| 3/16/2021 | <0.0005 | <0.0005 | | | | <0.0005 |
| 3/17/2021 | | | <0.0005 | | | |
| 8/16/2021 | | | | <0.0005 | | |
| 8/17/2021 | | | | | | <0.0005 |
| 8/18/2021 | <0.0005 | <0.0005 | | | 0.0002 (J) | |
| 8/19/2021 | | | <0.0005 | | | |
| 2/9/2022 | <0.0005 | <0.0005 | | | | <0.0005 |
| 2/10/2022 | | | <0.0005 | <0.0005 | 0.00029 (J) | |
| 8/3/2022 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.00017 (J) | |
| 8/4/2022 | | | | | | <0.0005 |
| 8/11/2022 | | | | <0.0005 | | |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|---------|---------|-------------|-------------|---------|
| 1/26/2023 | <0.0005 | <0.0005 | <0.0005 | | | <0.0005 |
| 1/27/2023 | | | | 0.00019 (J) | | |
| 2/1/2023 | | | | | 0.00014 (J) | |
| 8/10/2023 | <0.0005 | <0.0005 | | | | |
| 8/11/2023 | | | | | | <0.0005 |
| 8/12/2023 | | | <0.0005 | <0.0005 | 0.00044 (J) | |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------------|---------|---------|---------|---------|---------|
| 3/13/2019 | | <0.0005 | <0.0005 | | <0.0005 | <0.0005 |
| 3/14/2019 | <0.0005 | | | <0.0005 | | |
| 4/2/2019 | | <0.0005 | | | | |
| 4/3/2019 | <0.0005 | | | <0.0005 | <0.0005 | |
| 4/4/2019 | | | | | | <0.0005 |
| 4/8/2019 | | | <0.0005 | | | |
| 9/25/2019 | | <0.0005 | | | | |
| 9/26/2019 | | | <0.0005 | | <0.0005 | <0.0005 |
| 9/27/2019 | 0.00013 (J) | | | <0.0005 | | |
| 3/2/2020 | | <0.0005 | | | | |
| 3/3/2020 | | | | <0.0005 | | |
| 3/4/2020 | 0.00026 (J) | | <0.0005 | | <0.0005 | <0.0005 |
| 3/26/2020 | 0.00019 (J) | | | <0.0005 | | |
| 3/27/2020 | | <0.0005 | | | | |
| 3/30/2020 | | | <0.0005 | | | |
| 3/31/2020 | | | | | <0.0005 | |
| 4/2/2020 | | | | | | <0.0005 |
| 9/17/2020 | | <0.0005 | | | <0.0005 | |
| 9/18/2020 | | | | <0.0005 | | <0.0005 |
| 9/21/2020 | 0.00018 (J) | | <0.0005 | | | |
| 2/11/2021 | | <0.0005 | | | | |
| 2/12/2021 | 0.0002 (J) | | | <0.0005 | | |
| 2/16/2021 | | | <0.0005 | | <0.0005 | <0.0005 |
| 3/12/2021 | | | | | | <0.0005 |
| 3/15/2021 | | <0.0005 | | | | |
| 3/16/2021 | | | | <0.0005 | | |
| 3/17/2021 | 0.00016 (J) | | <0.0005 | | <0.0005 | |
| 8/17/2021 | | <0.0005 | | | <0.0005 | <0.0005 |
| 8/18/2021 | 0.00027 (J) | | | | | |
| 8/19/2021 | | | <0.0005 | <0.0005 | | |
| 2/9/2022 | 0.0011 | | | <0.0005 | <0.0005 | |
| 2/10/2022 | | <0.0005 | <0.0005 | | | <0.0005 |
| 8/3/2022 | | | <0.0005 | | | <0.0005 |
| 8/4/2022 | 0.00022 (J) | <0.0005 | | <0.0005 | <0.0005 | |
| 1/26/2023 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 1/27/2023 | | | | | | <0.0005 |
| 8/10/2023 | 0.00018 (J) | <0.0005 | | <0.0005 | | |
| 8/11/2023 | | | | | <0.0005 | |
| 8/12/2023 | | | <0.0005 | | | <0.0005 |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|---------|---------|---------|---------|---------|
| 3/12/2019 | <0.0005 | <0.0005 | | | |
| 3/13/2019 | | | <0.0005 | <0.0005 | <0.0005 |
| 4/2/2019 | <0.0005 | <0.0005 | | | |
| 4/3/2019 | | | <0.0005 | <0.0005 | <0.0005 |
| 9/24/2019 | | <0.0005 | | | |
| 9/25/2019 | | | <0.0005 | | |
| 9/26/2019 | <0.0005 | | | <0.0005 | <0.0005 |
| 3/2/2020 | | <0.0005 | <0.0005 | | |
| 3/3/2020 | | | | <0.0005 | <0.0005 |
| 3/4/2020 | <0.0005 | | | | |
| 3/26/2020 | | | <0.0005 | | |
| 3/27/2020 | <0.0005 | | | <0.0005 | |
| 3/30/2020 | | <0.0005 | | | <0.0005 |
| 9/16/2020 | | <0.0005 | | | |
| 9/17/2020 | | | <0.0005 | | |
| 9/21/2020 | <0.0005 | | | <0.0005 | <0.0005 |
| 2/10/2021 | <0.0005 | | | | |
| 2/15/2021 | | <0.0005 | | | <0.0005 |
| 2/16/2021 | | | <0.0005 | <0.0005 | |
| 3/15/2021 | <0.0005 | <0.0005 | | | <0.0005 |
| 3/16/2021 | | | <0.0005 | <0.0005 | |
| 8/16/2021 | | <0.0005 | | | |
| 8/17/2021 | | | <0.0005 | <0.0005 | <0.0005 |
| 8/18/2021 | <0.0005 | | | | |
| 2/8/2022 | | | | | <0.0005 |
| 2/9/2022 | | | <0.0005 | <0.0005 | |
| 2/10/2022 | <0.0005 | <0.0005 | | | |
| 8/3/2022 | | <0.0005 | <0.0005 | <0.0005 | |
| 8/4/2022 | <0.0005 | | | | <0.0005 |
| 1/26/2023 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 8/10/2023 | | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 8/11/2023 | <0.0005 | | | | |

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|----------|
| 5/19/2016 | 138 | 22.9 | 76.2 | | | |
| 5/23/2016 | | | | | | 167 |
| 7/11/2016 | 97.2 | 22.3 | | | | |
| 7/12/2016 | | | 61.5 | | | 143 |
| 8/30/2016 | 97.5 | 26.4 | 65.1 | | | |
| 9/1/2016 | | | | | | 156 |
| 10/19/2016 | 99.2 | 21.7 | 73.2 | | | |
| 10/24/2016 | | | | | | 156 |
| 12/6/2016 | 105 | 18.2 | 74.9 | | | |
| 12/7/2016 | | | | | | 183 |
| 1/24/2017 | 95.7 | 18.5 | 69.6 | | | |
| 1/26/2017 | | | | | | 82.6 |
| 3/21/2017 | 106 | 18.6 | 75.7 | | | |
| 3/22/2017 | | | | | | 154 |
| 5/22/2017 | 107 | 17.8 | 71.5 | | | |
| 5/24/2017 | | | | | | 171 |
| 10/3/2017 | 102 | 20.2 | 76.3 | | | 162 |
| 6/4/2018 | 124 | 19.1 | 73.4 | | | |
| 6/5/2018 | | | | | | 167 |
| 10/1/2018 | 108 | 20.5 (J) | 80.9 | | | |
| 10/2/2018 | | | | | | 144 |
| 4/1/2019 | | | 80.5 | | | |
| 4/2/2019 | 132 | 22.5 (J) | | | | |
| 4/3/2019 | | | | | | 137 |
| 9/23/2019 | 118 | 19.5 | 71 | | | |
| 9/27/2019 | | | | | | 157 |
| 3/25/2020 | 127 | 23 | 89.8 | | | |
| 4/1/2020 | | | | | | 96.2 |
| 6/16/2020 | 130 | | 85.1 | | | |
| 9/15/2020 | 103 | 21.1 | 73.1 | | | |
| 9/16/2020 | | | | 56 | 30 | 139 |
| 11/10/2020 | | | | 63.3 | 33.6 | |
| 12/15/2020 | | | | 62.6 | 28.7 | |
| 1/19/2021 | | | | 60.1 | 33 | |
| 3/10/2021 | 111 | | | | 5.9 | |
| 3/11/2021 | | 43.8 | 83.8 | 59.6 | | |
| 3/12/2021 | | | | | | 146 (M1) |
| 8/11/2021 | 113 | | | 61 | | |
| 8/12/2021 | | 21.9 | 84 | | | |
| 8/13/2021 | | | | | 28.9 | |
| 8/17/2021 | | | | | | 153 |
| 2/1/2022 | 106 | 27.2 | 85.1 | 55.9 | 24.8 | |
| 2/9/2022 | | | | | | 76.8 |
| 8/2/2022 | 117 | 31.2 | 84.6 | 54.1 | 20.9 | |
| 8/3/2022 | | | | | | 125 |
| 1/23/2023 | | | 85 | | | |
| 1/24/2023 | 117 | 29.4 | | 56.6 | 13.2 | |
| 1/27/2023 | | | | | | 60.4 |
| 8/8/2023 | 118 | 30.7 | 78.3 | 52.8 | 8.1 | |
| 8/10/2023 | | | | | | 155 |

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|---------|---------|---------|--------|--------|--------|
| 5/20/2016 | | | | 117 | 159 | |
| 5/23/2016 | 131 | 195 | 133 | | | 179 |
| 7/12/2016 | 124 | 181 | 101 | 88.8 | 127 | 174 |
| 9/1/2016 | 107 | 179 | 120 | 96.3 | 135 | 170 |
| 10/20/2016 | | | | 96.9 | 134 | 133 |
| 10/24/2016 | 145 | 193 | 127 | | | |
| 12/6/2016 | | | | 104 | 142 | 181 |
| 12/7/2016 | 159 | 193 | 113 | | | |
| 1/25/2017 | | | | 94.5 | 142 | |
| 1/26/2017 | 121 | 172 | 77.9 | | | 175 |
| 3/21/2017 | | | | 109 | 148 | |
| 3/22/2017 | 130 | 162 | 85.1 | | | 183 |
| 5/23/2017 | | | | 93.3 | 140 | 181 |
| 5/24/2017 | 117 | 158 | 77.1 | | | |
| 10/3/2017 | 87.7 | 130 | 62 | 108 | 158 | 188 |
| 6/5/2018 | 113 | | 110 | 99.8 | | |
| 6/6/2018 | | 136 | | | 127 | 184 |
| 10/2/2018 | | | | 108 | 118 | 173 |
| 10/3/2018 | 89 | 125 | | | | |
| 10/5/2018 | | | 73.6 | | | |
| 4/2/2019 | | | | 101 | | |
| 4/3/2019 | 112 | 114 | | | 125 | 164 |
| 4/5/2019 | | | 77.1 | | | |
| 9/24/2019 | | | | | 113 | |
| 9/25/2019 | | | | 105 | | |
| 9/26/2019 | | | 195 | | | |
| 9/27/2019 | 113 | 153 | | | | 175 |
| 3/26/2020 | | 145 | | | | |
| 3/27/2020 | | | | 119 | 133 | |
| 3/30/2020 | | | 234 | | | |
| 3/31/2020 | 124 | | | | | 182 |
| 6/16/2020 | | | | | 120 | |
| 6/17/2020 | | | | 112 | | |
| 9/16/2020 | | | | 98 | 119 | |
| 9/17/2020 | | | | | | 164 |
| 9/18/2020 | 122 | 163 | | | | |
| 9/21/2020 | | | 173 | | | |
| 3/15/2021 | | | | 113 | 156 | |
| 3/16/2021 | 132 | 166 | | | | 182 |
| 3/17/2021 | | | 184 | | | |
| 8/16/2021 | | | | 112 | | |
| 8/17/2021 | | | | | | 183 |
| 8/18/2021 | 128 | 163 | | | 147 | |
| 8/19/2021 | | | 179 | | | |
| 2/9/2022 | 144 | 172 | | | | 183 |
| 2/10/2022 | | | 206 | 108 | 153 | |
| 8/3/2022 | 131 | 167 | 237 | 125 | 153 | |
| 8/4/2022 | | | | | | 196 |
| 8/11/2022 | | | | 119 | | |
| 1/26/2023 | 113 | 154 | 234 | | | 173 |
| 1/27/2023 | | | | 124 | | |
| 2/1/2023 | | | | | 110 | |

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|---------|---------|--------|--------|--------|
| 8/10/2023 | 100 | 156 | | | | |
| 8/11/2023 | | | | | | 168 |
| 8/12/2023 | | | 172 | 101 | 122 | |

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------|-------|--------|--------|--------|--------|
| 4/2/2019 | | 109 | | | | |
| 4/3/2019 | 74.9 | | | 25.4 | 122 | |
| 4/4/2019 | | | | | | 26.3 |
| 4/8/2019 | | | 83 | | | |
| 9/25/2019 | | 113 | | | | |
| 9/26/2019 | | | 83.1 | | 158 | 32.1 |
| 9/27/2019 | 90 | | | 26.4 | | |
| 3/26/2020 | 171 | | | 27 | | |
| 3/27/2020 | | 126 | | | | |
| 3/30/2020 | | | 84.4 | | | |
| 3/31/2020 | | | | | 155 | |
| 4/2/2020 | | | | | | 28.4 |
| 9/17/2020 | | 110 | | | 150 | |
| 9/18/2020 | | | | 25.1 | | 24.8 |
| 9/21/2020 | 135 | | 87.6 | | | |
| 3/12/2021 | | | | | | 28 |
| 3/15/2021 | | 121 | | | | |
| 3/16/2021 | | | | 24.8 | | |
| 3/17/2021 | 130 | | 102 | | 175 | |
| 8/17/2021 | | 123 | | | 177 | 28.5 |
| 8/18/2021 | 125 | | | | | |
| 8/19/2021 | | | 99.5 | 23.8 | | |
| 2/9/2022 | 97.6 | | | 23.5 | 176 | |
| 2/10/2022 | | 123 | 110 | | | 31.4 |
| 8/3/2022 | | | 102 | | | 30.8 |
| 8/4/2022 | 187 | 131 | | 22 | 186 | |
| 1/26/2023 | 118 | 122 | 107 | 21.8 | 179 | |
| 1/27/2023 | | | | | | 28.1 |
| 8/10/2023 | 127 | 123 | | 86.1 | | |
| 8/11/2023 | | | | | 152 | |
| 8/12/2023 | | | 105 | | | 27.8 |

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|--------|-------|------|------|------|
| 4/2/2019 | 64.6 | 131 | | | |
| 4/3/2019 | | | 82 | 178 | 50.2 |
| 9/24/2019 | | 140 | | | |
| 9/25/2019 | | | 105 | | |
| 9/26/2019 | 84 | | | 189 | 83.9 |
| 3/26/2020 | | | 89.6 | | |
| 3/27/2020 | 53 | | | 186 | |
| 3/30/2020 | | 148 | | | 31.1 |
| 9/16/2020 | | 126 | | | |
| 9/17/2020 | | | 103 | | |
| 9/21/2020 | 76.8 | | | 173 | 75.3 |
| 3/15/2021 | 66.1 | 145 | | | 76.9 |
| 3/16/2021 | | | 71.8 | 184 | |
| 8/16/2021 | | 140 | | | |
| 8/17/2021 | | | 73.3 | 181 | 90.7 |
| 8/18/2021 | 82.8 | | | | |
| 2/8/2022 | | | | | 73.3 |
| 2/9/2022 | | | 68.1 | 178 | |
| 2/10/2022 | 58.5 | 156 | | | |
| 8/3/2022 | | 143 | 86.6 | 176 | |
| 8/4/2022 | 76.7 | | | | 73.1 |
| 1/26/2023 | 64.4 | 146 | 76.1 | 180 | 21.6 |
| 8/10/2023 | | 147 | 99.7 | 179 | 81.2 |
| 8/11/2023 | 49.6 | | | | |

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|---------|
| 5/19/2016 | 9.94 | 6.14 | 5.93 | | | |
| 5/23/2016 | | | | | | 56.1 |
| 7/11/2016 | 6.3 | 5.9 | | | | |
| 7/12/2016 | | | 6.2 | | | 63 |
| 8/30/2016 | 6 | 6.2 | 6.4 | | | |
| 9/1/2016 | | | | | | 77 |
| 10/19/2016 | 5.8 | 6.1 | 6.5 | | | |
| 10/24/2016 | | | | | | 99 |
| 12/6/2016 | 5.4 | 6 | 7.2 | | | |
| 12/7/2016 | | | | | | 96 |
| 1/24/2017 | 5.2 | 6.1 | 6.4 | | | |
| 1/26/2017 | | | | | | 7 |
| 3/21/2017 | 4.6 | 5.9 | 7.5 | | | |
| 3/22/2017 | | | | | | 82 |
| 5/22/2017 | 4.6 | 5.9 | 6.5 | | | |
| 5/24/2017 | | | | | | 81 |
| 10/3/2017 | 5.6 | 6.3 | 6.5 | | | 100 |
| 6/4/2018 | 13.1 | 6.1 | 6.3 | | | |
| 6/5/2018 | | | | | | 66.6 |
| 10/1/2018 | 6.6 | 6.4 | 6.4 | | | |
| 10/2/2018 | | | | | | 48.3 |
| 4/1/2019 | | | 6.5 | | | |
| 4/2/2019 | 20.3 | 5.8 | | | | |
| 4/3/2019 | | | | | | 49.3 |
| 9/23/2019 | 17.7 | 5.1 | 5.9 | | | |
| 9/27/2019 | | | | | | 49.9 |
| 3/25/2020 | 20.4 | 5.2 | 6.1 | | | |
| 4/1/2020 | | | | | | 5.4 |
| 6/16/2020 | 41.1 | | 5.8 | | | |
| 9/15/2020 | 13.4 | 5 | 6 | | | |
| 9/16/2020 | | | | 4.1 | 7.2 | 39.7 |
| 11/10/2020 | | | | 4.4 | 7.8 | |
| 12/15/2020 | | | | 4.7 | 9.4 | |
| 1/19/2021 | | | | 4.1 | 9.5 | |
| 3/10/2021 | 7.4 | | | | 12.3 | |
| 3/11/2021 | | 5.1 | 5.9 | 4.5 | | |
| 3/12/2021 | | | | | | 35 |
| 8/11/2021 | 9.6 | | | 3.5 | | |
| 8/12/2021 | | 5.2 | 4.8 | | | |
| 8/13/2021 | | | | | 39.9 | |
| 8/17/2021 | | | | | | 28.3 |
| 2/1/2022 | 7.5 | 7 | 5.7 | 4.1 | 44.8 | |
| 2/9/2022 | | | | | | 1.2 |
| 8/2/2022 | 14.1 | 7.8 | 5.9 | 4.3 | 19.8 | |
| 8/3/2022 | | | | | | 12.3 |
| 1/23/2023 | | | 5.6 | | | |
| 1/24/2023 | 9 | 7.1 | | 4.3 | 24.9 | |
| 1/27/2023 | | | | | | 1.6 |
| 8/8/2023 | 26 | 6.6 | 5.3 | 3.5 | 27 | |
| 8/10/2023 | | | | | | 13.4 |

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|---------|---------|---------|--------|--------|--------|
| 5/20/2016 | | | | 50.4 | 109 | |
| 5/23/2016 | 51.9 | 160 | 93.2 | | | 152 |
| 7/12/2016 | 100 | 160 | 78 | 50 | 110 | 160 |
| 9/1/2016 | 58 | 140 | 100 | 50 | 110 | 160 |
| 10/20/2016 | | | | 49 | 110 | 110 |
| 10/24/2016 | 220 | 160 | 140 | | | |
| 12/6/2016 | | | | 51 | 100 | 150 |
| 12/7/2016 | 180 | 190 | 110 | | | |
| 1/25/2017 | | | | 54 | 110 | |
| 1/26/2017 | 90 | 160 | 70 | | | 170 |
| 3/21/2017 | | | | 46 | 110 | |
| 3/22/2017 | 37 | 130 | 59 | | | 160 |
| 5/23/2017 | | | | 49 | 130 | 150 |
| 5/24/2017 | 69 | 120 | 50 | | | |
| 10/3/2017 | 28 | 93 | 29 | 52 | 130 | 160 |
| 6/5/2018 | 56.1 | | 72.3 | 52.3 | | |
| 6/6/2018 | | 46.4 | | | 44.8 | 138 |
| 10/2/2018 | | | | 52.6 | 89.4 | 142 |
| 10/3/2018 | 24.8 | 88.4 | | | | |
| 10/5/2018 | | | 32.3 | | | |
| 4/2/2019 | | | | 55.5 | | |
| 4/3/2019 | 4.6 | 62.8 | | | 91.6 | 130 |
| 4/5/2019 | | | 36.4 | | | |
| 9/24/2019 | | | | | 60.2 | |
| 9/25/2019 | | | | 49.8 | | |
| 9/26/2019 | | | 109 | | | |
| 9/27/2019 | 27.9 | 81 | | | | 126 |
| 3/26/2020 | | 48 | | | | |
| 3/27/2020 | | | | 48.3 | 79.8 | |
| 3/30/2020 | | | 75.1 | | | |
| 3/31/2020 | 3.2 | | | | | 105 |
| 6/16/2020 | | | | | 67.9 | |
| 6/17/2020 | | | | 45.2 | | |
| 9/16/2020 | | | | 46.4 | 74.6 | |
| 9/17/2020 | | | | | | 105 |
| 9/18/2020 | 34.9 | 74.6 | | | | |
| 9/21/2020 | | | 41.2 | | | |
| 3/15/2021 | | | | 44.5 | 72.4 | |
| 3/16/2021 | 11.5 | 56.8 | | | | 94.7 |
| 3/17/2021 | | | 31.4 | | | |
| 8/16/2021 | | | | 40.3 | | |
| 8/17/2021 | | | | | | 88.6 |
| 8/18/2021 | 19.9 | 47.3 | | | 50.9 | |
| 8/19/2021 | | | 24.4 | | | |
| 2/9/2022 | 20.4 | 46.8 | | | | 84.4 |
| 2/10/2022 | | | 17.4 | 39.8 | 48.2 | |
| 8/3/2022 | 13.8 | 39.2 | 13 | 37.9 | 54.1 | |
| 8/4/2022 | | | | | | 86.8 |
| 8/11/2022 | | | | 37.7 | | |
| 1/26/2023 | 8.8 | 34.6 | 12.5 | | | 86.9 |
| 1/27/2023 | | | | 40 | | |
| 2/1/2023 | | | | | 52.4 | |

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|---------|---------|--------|--------|--------|
| 8/10/2023 | 6.5 | 30.6 | | | | |
| 8/11/2023 | | | | | | 78.9 |
| 8/12/2023 | | | 15.3 | 33.3 | 53.1 | |

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------|-------|--------|--------|--------|--------|
| 4/2/2019 | | 27.5 | | | | |
| 4/3/2019 | 19.5 | | | 32 | 90.6 | |
| 4/4/2019 | | | | | | 26.9 |
| 4/8/2019 | | | 43.3 | | | |
| 9/25/2019 | | 25.7 | | | | |
| 9/26/2019 | | | 39.7 | | 118 | 31.8 |
| 9/27/2019 | 46.2 | | | 36.2 | | |
| 3/26/2020 | 64 | | | 34.6 | | |
| 3/27/2020 | | 28.8 | | | | |
| 3/30/2020 | | | 37.4 | | | |
| 3/31/2020 | | | | | 98 | |
| 4/2/2020 | | | | | | 27.9 |
| 9/17/2020 | | 29.7 | | | 103 | |
| 9/18/2020 | | | | 33.4 | | 30.4 |
| 9/21/2020 | 35 | | 45.2 | | | |
| 3/12/2021 | | | | | | 31.3 |
| 3/15/2021 | | 31.1 | | | | |
| 3/16/2021 | | | | 29.2 | | |
| 3/17/2021 | 19.8 | | 42.9 | | 95.3 | |
| 8/17/2021 | | 28.3 | | | 89.2 | 30 |
| 8/18/2021 | 14.3 | | | | | |
| 8/19/2021 | | | 37.2 | 30.8 | | |
| 2/9/2022 | 10.2 | | | 26.5 | 85.7 | |
| 2/10/2022 | | 31.4 | 38.2 | | | 31.4 |
| 8/3/2022 | | | 39.6 | | | 36.7 |
| 8/4/2022 | 11.3 | 31.4 | | 20.5 | 88.5 | |
| 1/26/2023 | 7.7 | 30 | 38 | 17.2 | 83.6 | |
| 1/27/2023 | | | | | | 32.5 |
| 8/10/2023 | 11.2 | 28.4 | | 13.6 | | |
| 8/11/2023 | | | | | 87.6 | |
| 8/12/2023 | | | 35.1 | | | 29 |

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|--------|-------|----------|------|------|
| 4/2/2019 | 44 | 80.9 | | | |
| 4/3/2019 | | | 1.8 | 60.9 | 5.6 |
| 9/24/2019 | | 83.8 | | | |
| 9/25/2019 | | | 35.9 | | |
| 9/26/2019 | 43.5 | | | 64.9 | 15.6 |
| 3/26/2020 | | | 0.73 (J) | | |
| 3/27/2020 | 33 | | | 48.6 | |
| 3/30/2020 | | 71.2 | | | 1.5 |
| 9/16/2020 | | 75.3 | | | |
| 9/17/2020 | | | 28.7 | | |
| 9/21/2020 | 42.9 | | | 58.1 | 11.1 |
| 3/15/2021 | 35.8 | 73.6 | | | 6.8 |
| 3/16/2021 | | | 1.4 | 49.8 | |
| 8/16/2021 | | 68 | | | |
| 8/17/2021 | | | 1.4 | 43.5 | 8.9 |
| 8/18/2021 | 33.7 | | | | |
| 2/8/2022 | | | | | 6.9 |
| 2/9/2022 | | | 0.74 (J) | 37.9 | |
| 2/10/2022 | 29 | 66 | | | |
| 8/3/2022 | | 63.5 | 4.4 | 39.6 | |
| 8/4/2022 | 33.3 | | | | 4.7 |
| 1/26/2023 | 27.7 | 62.4 | 0.86 (J) | 30.5 | 1.2 |
| 8/10/2023 | | 56.1 | 0.86 (J) | 26.9 | 3.3 |
| 8/11/2023 | 17 | | | | |

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|------------|
| 5/19/2016 | <0.005 | <0.005 | <0.005 | | | |
| 5/23/2016 | | | | | | <0.005 |
| 7/11/2016 | <0.005 | <0.005 | | | | |
| 7/12/2016 | | | <0.005 | | | <0.005 |
| 8/30/2016 | <0.005 | <0.005 | <0.005 | | | |
| 9/1/2016 | | | | | | <0.005 |
| 10/19/2016 | <0.005 | <0.005 | <0.005 | | | |
| 10/24/2016 | | | | | | <0.005 |
| 12/6/2016 | <0.005 | <0.005 | <0.005 | | | |
| 12/7/2016 | | | | | | <0.005 |
| 1/24/2017 | <0.005 | <0.005 | <0.005 | | | |
| 1/26/2017 | | | | | | <0.005 |
| 3/21/2017 | 0.0005 (J) | <0.005 | <0.005 | | | |
| 3/22/2017 | | | | | | <0.005 |
| 5/22/2017 | <0.005 | <0.005 | 0.0007 (J) | | | |
| 5/24/2017 | | | | | | <0.005 |
| 4/2/2018 | <0.005 | <0.005 | | | | |
| 4/3/2018 | | | <0.005 | | | |
| 4/4/2018 | | | | | | <0.005 |
| 3/12/2019 | <0.005 | <0.005 | <0.005 | | | |
| 3/13/2019 | | | | | | <0.005 |
| 4/1/2019 | | | <0.005 | | | |
| 4/2/2019 | <0.005 | 0.0079 (J) | | | | |
| 4/3/2019 | | | | | | 0.02 |
| 9/23/2019 | <0.005 | 0.00058 (J) | <0.005 | | | |
| 9/27/2019 | | | | | | <0.005 |
| 3/2/2020 | <0.005 | 0.00041 (J) | <0.005 | | | |
| 3/3/2020 | | | | | | <0.005 |
| 3/25/2020 | 0.00072 (J) | <0.005 | <0.005 | | | |
| 4/1/2020 | | | | | | <0.005 |
| 9/15/2020 | <0.005 | <0.005 | <0.005 | | | |
| 9/16/2020 | | | | <0.005 | 0.0012 (J) | <0.005 |
| 11/10/2020 | | | | <0.005 | 0.00089 (J) | |
| 12/15/2020 | | | | <0.005 | 0.00072 (J) | |
| 1/19/2021 | | | | <0.005 | 0.0011 (J) | |
| 2/8/2021 | <0.005 | | | | | |
| 2/9/2021 | | <0.005 | <0.005 | 0.00095 (J) | 0.00066 (J) | |
| 2/15/2021 | | | | | | <0.005 |
| 3/10/2021 | <0.005 | | | | <0.005 | |
| 3/11/2021 | | <0.005 | <0.005 | <0.005 | | |
| 3/12/2021 | | | | | | <0.005 |
| 8/11/2021 | <0.005 | | | <0.005 | | |
| 8/12/2021 | | <0.005 | <0.005 | | | |
| 8/13/2021 | | | | | 0.0016 (J) | |
| 8/17/2021 | | | | | | <0.005 |
| 2/1/2022 | <0.005 | <0.005 | <0.005 | <0.005 | 0.0013 (J) | |
| 2/9/2022 | | | | | | 0.0011 (J) |
| 8/2/2022 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 8/3/2022 | | | | | | <0.005 |
| 1/23/2023 | | | <0.005 | | | |
| 1/24/2023 | <0.005 | <0.005 | | <0.005 | <0.005 | |
| 1/27/2023 | | | | | | 0.0012 (J) |

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|---------|
| 8/8/2023 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 8/10/2023 | | | | | | <0.005 |

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 5/20/2016 | | | | <0.005 | <0.005 | |
| 5/23/2016 | <0.005 | <0.005 | <0.005 | | | <0.005 |
| 7/12/2016 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 9/1/2016 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 10/20/2016 | | | | <0.005 | <0.005 | <0.005 |
| 10/24/2016 | <0.005 | <0.005 | <0.005 | | | |
| 12/6/2016 | | | | <0.005 | <0.005 | <0.005 |
| 12/7/2016 | <0.005 | <0.005 | <0.005 | | | |
| 1/25/2017 | | | | <0.005 | <0.005 | |
| 1/26/2017 | <0.005 | <0.005 | <0.005 | | | <0.005 |
| 3/21/2017 | | | | <0.005 | 0.0005 (J) | |
| 3/22/2017 | 0.0003 (J) | 0.0004 (J) | 0.0004 (J) | | | <0.005 |
| 5/23/2017 | | | | <0.005 | <0.005 | <0.005 |
| 5/24/2017 | <0.005 | <0.005 | <0.005 | | | |
| 4/3/2018 | | | | <0.005 | <0.005 | <0.005 |
| 4/4/2018 | <0.005 | <0.005 | <0.005 | | | |
| 3/12/2019 | | | | | <0.005 | |
| 3/13/2019 | <0.005 | | <0.005 | <0.005 | | <0.005 |
| 3/14/2019 | | 0.0025 (J) | | | | |
| 4/2/2019 | | | | <0.005 | | |
| 4/3/2019 | <0.005 | <0.005 | | | <0.005 | <0.005 |
| 4/5/2019 | | | <0.005 | | | |
| 9/24/2019 | | | | | <0.005 | |
| 9/25/2019 | | | | 0.071 | | |
| 9/26/2019 | | | <0.005 | | | |
| 9/27/2019 | <0.005 | <0.005 | | | | <0.005 |
| 3/3/2020 | 0.00061 (J) | <0.005 | | | 0.0007 (J) | |
| 3/4/2020 | | | <0.005 | 0.0016 (J) | | <0.005 |
| 3/26/2020 | | <0.005 | | | | |
| 3/27/2020 | | | | 0.0004 (J) | <0.005 | |
| 3/30/2020 | | | 0.00059 (J) | | | |
| 3/31/2020 | <0.005 | | | | | 0.00052 (J) |
| 9/16/2020 | | | | 0.00074 (J) | 0.0015 (J) | |
| 9/17/2020 | | | | | | <0.005 |
| 9/18/2020 | <0.005 | 0.00091 (J) | | | | |
| 9/21/2020 | | | 0.00056 (J) | | | |
| 2/10/2021 | | | | 0.0014 (J) | | |
| 2/12/2021 | <0.005 | <0.005 | | | | |
| 2/16/2021 | | | | | <0.005 | 0.00067 (J) |
| 2/22/2021 | | | <0.005 | | | |
| 3/15/2021 | | | | 0.0021 (J) | 0.00082 (J) | |
| 3/16/2021 | <0.005 | <0.005 | | | | <0.005 |
| 3/17/2021 | | | <0.005 | | | |
| 8/16/2021 | | | | <0.005 | | |
| 8/17/2021 | | | | | | <0.005 |
| 8/18/2021 | <0.005 | <0.005 | | | <0.005 | |
| 8/19/2021 | | | <0.005 | | | |
| 2/9/2022 | <0.005 | <0.005 | | | | 0.0011 (J) |
| 2/10/2022 | | | <0.005 | <0.005 | <0.005 | |
| 8/3/2022 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 8/4/2022 | | | | | | <0.005 |
| 8/11/2022 | | | | <0.005 | | |

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|------------|---------|---------|------------|--------|------------|
| 1/26/2023 | 0.0012 (J) | <0.005 | <0.005 | | | 0.0013 (J) |
| 1/27/2023 | | | | 0.0014 (J) | | |
| 2/1/2023 | | | | | <0.005 | |
| 8/10/2023 | <0.005 | <0.005 | | | | |
| 8/11/2023 | | | | | | <0.005 |
| 8/12/2023 | | | <0.005 | <0.005 | <0.005 | |

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------------|-------------|-------------|-------------|-------------|-------------|
| 3/13/2019 | | <0.005 | <0.005 | | <0.005 | <0.005 |
| 3/14/2019 | <0.005 | | | <0.005 | | |
| 4/2/2019 | | <0.005 | | | | |
| 4/3/2019 | <0.005 | | | <0.005 | <0.005 | |
| 4/4/2019 | | | | | | <0.005 |
| 4/8/2019 | | | <0.005 | | | |
| 9/25/2019 | | <0.005 | | | | |
| 9/26/2019 | | | 0.00042 (J) | | 0.00076 (J) | <0.005 |
| 9/27/2019 | <0.005 | | | <0.005 | | |
| 3/2/2020 | | 0.00071 (J) | | | | |
| 3/3/2020 | | | | <0.005 | | |
| 3/4/2020 | 0.00066 (J) | | <0.005 | | 0.0028 (J) | <0.005 |
| 3/26/2020 | 0.00047 (J) | | | 0.00061 (J) | | |
| 3/27/2020 | | 0.00051 (J) | | | | |
| 3/30/2020 | | | <0.005 | | | |
| 3/31/2020 | | | | | 0.001 (J) | |
| 4/2/2020 | | | | | | <0.005 |
| 9/17/2020 | | <0.005 | | | <0.005 | |
| 9/18/2020 | | | | <0.005 | | 0.0007 (J) |
| 9/21/2020 | 0.0014 (J) | | <0.005 | | | |
| 2/11/2021 | | <0.005 | | | | |
| 2/12/2021 | 0.00059 (J) | | | <0.005 | | |
| 2/16/2021 | | | <0.005 | | 0.001 (J) | 0.00082 (J) |
| 3/12/2021 | | | | | | <0.005 |
| 3/15/2021 | | 0.00068 (J) | | | | |
| 3/16/2021 | | | | <0.005 | | |
| 3/17/2021 | 0.0022 (J) | | 0.0017 (J) | | 0.0015 (J) | |
| 8/17/2021 | | <0.005 | | | <0.005 | <0.005 |
| 8/18/2021 | <0.005 | | | | | |
| 8/19/2021 | | | <0.005 | <0.005 | | |
| 2/9/2022 | <0.005 | | | <0.005 | <0.005 | |
| 2/10/2022 | | <0.005 | <0.005 | | | <0.005 |
| 8/3/2022 | | | <0.005 | | | <0.005 |
| 8/4/2022 | <0.005 | <0.005 | | <0.005 | <0.005 | |
| 1/26/2023 | 0.0011 (J) | <0.005 | <0.005 | 0.0012 (J) | <0.005 | |
| 1/27/2023 | | | | | | <0.005 |
| 8/10/2023 | <0.005 | <0.005 | | <0.005 | | |
| 8/11/2023 | | | | | <0.005 | |
| 8/12/2023 | | | <0.005 | | | <0.005 |

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|-------------|-----------|------------|-------------|------------|
| 3/12/2019 | <0.005 | <0.005 | | | |
| 3/13/2019 | | | 0.003 (J) | <0.005 | <0.005 |
| 4/2/2019 | <0.005 | <0.005 | | | |
| 4/3/2019 | | | 0.003 (J) | <0.005 | 0.0023 (J) |
| 9/24/2019 | | <0.005 | | | |
| 9/25/2019 | | | 0.0052 (J) | | |
| 9/26/2019 | 0.00081 (J) | | | <0.005 | 0.0013 (J) |
| 3/2/2020 | | <0.005 | 0.0042 (J) | | |
| 3/3/2020 | | | | 0.00044 (J) | 0.0015 (J) |
| 3/4/2020 | 0.0027 (J) | | | | |
| 3/26/2020 | | | 0.0044 (J) | | |
| 3/27/2020 | <0.005 | | | 0.00059 (J) | |
| 3/30/2020 | | 0.001 (J) | | | 0.0021 (J) |
| 9/16/2020 | | <0.005 | | | |
| 9/17/2020 | | | 0.0021 (J) | | |
| 9/21/2020 | 0.00085 (J) | | | <0.005 | 0.0017 (J) |
| 2/10/2021 | 0.0014 (J) | | | | |
| 2/15/2021 | | <0.005 | | | 0.0015 (J) |
| 2/16/2021 | | | 0.0032 (J) | <0.005 | |
| 3/15/2021 | 0.00078 (J) | <0.005 | | | 0.0018 (J) |
| 3/16/2021 | | | 0.0024 (J) | <0.005 | |
| 8/16/2021 | | <0.005 | | | |
| 8/17/2021 | | | 0.0018 (J) | <0.005 | <0.005 |
| 8/18/2021 | <0.005 | | | | |
| 2/8/2022 | | | | | 0.0016 (J) |
| 2/9/2022 | | | 0.0031 (J) | <0.005 | |
| 2/10/2022 | 0.0011 (J) | <0.005 | | | |
| 8/3/2022 | | <0.005 | 0.0015 (J) | <0.005 | |
| 8/4/2022 | <0.005 | | | | 0.002 (J) |
| 1/26/2023 | <0.005 | <0.005 | 0.0032 (J) | 0.0014 (J) | 0.0017 (J) |
| 8/10/2023 | | <0.005 | 0.002 (J) | <0.005 | 0.0015 (J) |
| 8/11/2023 | <0.005 | | | | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|------------|
| 5/19/2016 | <0.005 | 0.0293 | <0.005 | | | |
| 5/23/2016 | | | | | | <0.005 |
| 7/11/2016 | 0.0004 (J) | 0.0267 | | | | |
| 7/12/2016 | | | <0.005 | | | 0.0006 (J) |
| 8/30/2016 | <0.005 | 0.028 | <0.005 | | | |
| 9/1/2016 | | | | | | 0.0007 (J) |
| 10/19/2016 | <0.005 | 0.0201 | <0.005 | | | |
| 10/24/2016 | | | | | | 0.0009 (J) |
| 12/6/2016 | <0.005 | 0.0184 | <0.005 | | | |
| 12/7/2016 | | | | | | 0.0012 (J) |
| 1/24/2017 | <0.005 | 0.0206 | <0.005 | | | |
| 1/26/2017 | | | | | | <0.005 |
| 3/21/2017 | <0.005 | 0.0251 | <0.005 | | | |
| 3/22/2017 | | | | | | 0.0006 (J) |
| 5/22/2017 | <0.005 | 0.0263 | <0.005 | | | |
| 5/24/2017 | | | | | | 0.0006 (J) |
| 4/2/2018 | <0.005 | 0.019 | | | | |
| 4/3/2018 | | | <0.005 | | | |
| 4/4/2018 | | | | | | <0.005 |
| 3/12/2019 | <0.005 | 0.017 | <0.005 | | | |
| 3/13/2019 | | | | | | <0.005 |
| 4/1/2019 | | | <0.005 | | | |
| 4/2/2019 | <0.005 | 0.019 | | | | |
| 4/3/2019 | | | | | | <0.005 |
| 9/23/2019 | <0.005 | 0.038 | <0.005 | | | |
| 9/27/2019 | | | | | | <0.005 |
| 3/2/2020 | <0.005 | 0.019 | <0.005 | | | |
| 3/3/2020 | | | | | | <0.005 |
| 3/25/2020 | <0.005 | 0.02 | <0.005 | | | |
| 4/1/2020 | | | | | | <0.005 |
| 9/15/2020 | <0.005 | 0.021 | <0.005 | | | |
| 9/16/2020 | | | | <0.005 | <0.005 | <0.005 |
| 11/10/2020 | | | | <0.005 | <0.005 | |
| 12/15/2020 | | | | <0.005 | <0.005 | |
| 1/19/2021 | | | | <0.005 | <0.005 | |
| 2/8/2021 | <0.005 | | | | | |
| 2/9/2021 | | 0.02 | <0.005 | <0.005 | <0.005 | |
| 2/15/2021 | | | | | | <0.005 |
| 3/10/2021 | <0.005 | | | | <0.005 | |
| 3/11/2021 | | 0.013 | <0.005 | <0.005 | | |
| 3/12/2021 | | | | | | <0.005 |
| 8/11/2021 | <0.005 | | | <0.005 | | |
| 8/12/2021 | | 0.022 | <0.005 | | | |
| 8/13/2021 | | | | | <0.005 | |
| 8/17/2021 | | | | | | <0.005 |
| 2/1/2022 | <0.005 | 0.025 | <0.005 | <0.005 | <0.005 | |
| 2/9/2022 | | | | | | <0.005 |
| 8/2/2022 | 0.00054 (J) | 0.024 | <0.005 | <0.005 | <0.005 | |
| 8/3/2022 | | | | | | <0.005 |
| 1/23/2023 | | | <0.005 | | | |
| 1/24/2023 | <0.005 | 0.024 | | <0.005 | <0.005 | |
| 1/27/2023 | | | | | | <0.005 |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|---------|
| 8/8/2023 | 0.0008 (J) | 0.029 | <0.005 | <0.005 | <0.005 | |
| 8/10/2023 | | | | | | <0.005 |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-------------|------------|-------------|-------------|-------------|-------------|
| 5/20/2016 | | | | <0.01 | 0.00207 (J) | |
| 5/23/2016 | <0.005 | <0.01 | 0.00361 (J) | | | <0.01 |
| 7/12/2016 | 0.0021 (J) | 0.0018 (J) | 0.0032 (J) | 0.0003 (J) | 0.0019 (J) | 0.0006 (J) |
| 9/1/2016 | 0.0025 (J) | 0.0016 (J) | 0.0033 (J) | <0.01 | 0.0023 (J) | 0.0007 (J) |
| 10/20/2016 | | | | 0.0008 (J) | 0.002 (J) | 0.002 (J) |
| 10/24/2016 | 0.0032 (J) | 0.0017 (J) | 0.004 (J) | | | |
| 12/6/2016 | | | | 0.0009 (J) | 0.0026 (J) | 0.0011 (J) |
| 12/7/2016 | 0.003 (J) | 0.0021 (J) | 0.0034 (J) | | | |
| 1/25/2017 | | | | 0.0005 (J) | 0.002 (J) | |
| 1/26/2017 | 0.0014 (J) | 0.0016 (J) | 0.0024 (J) | | | 0.0006 (J) |
| 3/21/2017 | | | | 0.0005 (J) | 0.0023 (J) | |
| 3/22/2017 | 0.0014 (J) | 0.0018 (J) | 0.0026 (J) | | | 0.0005 (J) |
| 5/23/2017 | | | | 0.0005 (J) | 0.0023 (J) | 0.0006 (J) |
| 5/24/2017 | 0.0008 (J) | 0.0015 (J) | 0.0022 (J) | | | |
| 4/3/2018 | | | | <0.01 | <0.025 | <0.01 |
| 4/4/2018 | <0.005 | <0.01 | <0.01 | | | |
| 3/12/2019 | | | | | 0.002 (J) | |
| 3/13/2019 | 0.00098 (J) | | 0.0022 (J) | 0.00067 (J) | | 0.00065 (J) |
| 3/14/2019 | | 0.0011 (J) | | | | |
| 4/2/2019 | | | | 0.00069 (J) | | |
| 4/3/2019 | 0.0018 (J) | 0.0011 (J) | | | 0.0019 (J) | 0.00069 (J) |
| 4/5/2019 | | | 0.0017 (J) | | | |
| 9/24/2019 | | | | | 0.0015 (J) | |
| 9/25/2019 | | | | 0.0026 (J) | | |
| 9/26/2019 | | | 0.0042 (J) | | | |
| 9/27/2019 | 0.00071 (J) | 0.0012 (J) | | | | 0.00057 (J) |
| 3/3/2020 | 0.00087 (J) | 0.0013 (J) | | | 0.002 (J) | |
| 3/4/2020 | | | 0.0066 | 0.0011 (J) | | 0.00053 (J) |
| 3/26/2020 | | 0.0012 (J) | | | | |
| 3/27/2020 | | | | 0.00074 (J) | 0.0018 (J) | |
| 3/30/2020 | | | 0.0053 | | | |
| 3/31/2020 | 0.0014 (J) | | | | | 0.00051 (J) |
| 9/16/2020 | | | | 0.00065 (J) | 0.0019 (J) | |
| 9/17/2020 | | | | | | 0.0007 (J) |
| 9/18/2020 | <0.005 | 0.0014 (J) | | | | |
| 9/21/2020 | | | 0.0032 (J) | | | |
| 2/10/2021 | | | | 0.00081 (J) | | |
| 2/12/2021 | <0.005 | 0.0012 (J) | | | | |
| 2/16/2021 | | | | | 0.002 (J) | 0.00061 (J) |
| 2/22/2021 | | | 0.003 (J) | | | |
| 3/15/2021 | | | | 0.0014 (J) | 0.0019 (J) | |
| 3/16/2021 | <0.005 | 0.0012 (J) | | | | 0.00069 (J) |
| 3/17/2021 | | | 0.0029 (J) | | | |
| 8/16/2021 | | | | 0.0012 (J) | | |
| 8/17/2021 | | | | | | 0.00045 (J) |
| 8/18/2021 | <0.005 | 0.0012 (J) | | | 0.002 (J) | |
| 8/19/2021 | | | 0.0024 (J) | | | |
| 2/9/2022 | <0.005 | 0.0013 (J) | | | | 0.00051 (J) |
| 2/10/2022 | | | 0.0026 (J) | 0.0011 (J) | 0.0021 (J) | |
| 8/3/2022 | <0.005 | 0.0012 (J) | 0.0041 (J) | 0.0015 (J) | 0.0024 (J) | |
| 8/4/2022 | | | | | | 0.00046 (J) |
| 8/11/2022 | | | | 0.0018 (J) | | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|------------|---------|-------------|------------|-------------|
| 1/26/2023 | <0.005 | 0.0012 (J) | 0.012 | | | 0.00068 (J) |
| 1/27/2023 | | | | 0.00067 (J) | | |
| 2/1/2023 | | | | | <0.025 | |
| 8/10/2023 | <0.005 | 0.0012 (J) | | | | |
| 8/11/2023 | | | | | | 0.00057 (J) |
| 8/12/2023 | | | 0.018 | 0.00061 (J) | 0.0016 (J) | |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------|------------|-------------|--------|-------------|-------------|
| 3/13/2019 | | 0.0011 (J) | <0.005 | | <0.005 | <0.005 |
| 3/14/2019 | 0.025 | | | <0.005 | | |
| 4/2/2019 | | <0.005 | | | | |
| 4/3/2019 | 0.036 | | | <0.005 | <0.005 | |
| 4/4/2019 | | | | | | 9.1E-05 (J) |
| 4/8/2019 | | | 0.00025 (J) | | | |
| 9/25/2019 | | <0.005 | | | | |
| 9/26/2019 | | | 0.0011 (J) | | 0.00053 (J) | <0.005 |
| 9/27/2019 | 0.033 | | | <0.005 | | |
| 3/2/2020 | | <0.005 | | | | |
| 3/3/2020 | | | | <0.005 | | |
| 3/4/2020 | 0.048 | | 0.00056 (J) | | <0.005 | 0.00045 (J) |
| 3/26/2020 | 0.045 | | | <0.005 | | |
| 3/27/2020 | | <0.005 | | | | |
| 3/30/2020 | | | <0.005 | | | |
| 3/31/2020 | | | | | 0.0003 (J) | |
| 4/2/2020 | | | | | | <0.005 |
| 9/17/2020 | | <0.005 | | | <0.005 | |
| 9/18/2020 | | | | <0.005 | | <0.005 |
| 9/21/2020 | 0.032 | | <0.005 | | | |
| 2/11/2021 | | <0.005 | | | | |
| 2/12/2021 | 0.037 | | | <0.005 | | |
| 2/16/2021 | | | <0.005 | | 0.00045 (J) | 0.0004 (J) |
| 3/12/2021 | | | | | | <0.005 |
| 3/15/2021 | | <0.005 | | | | |
| 3/16/2021 | | | | <0.005 | | |
| 3/17/2021 | 0.037 | | <0.005 | | 0.00044 (J) | |
| 8/17/2021 | | <0.005 | | | 0.00045 (J) | <0.005 |
| 8/18/2021 | 0.039 | | | | | |
| 8/19/2021 | | | <0.005 | <0.005 | | |
| 2/9/2022 | 0.03 | | | <0.005 | 0.00059 (J) | |
| 2/10/2022 | | <0.005 | <0.005 | | | <0.005 |
| 8/3/2022 | | | <0.005 | | | <0.005 |
| 8/4/2022 | 0.043 | <0.005 | | <0.005 | 0.00048 (J) | |
| 1/26/2023 | 0.022 | <0.005 | <0.005 | <0.005 | 0.00051 (J) | |
| 1/27/2023 | | | | | | <0.005 |
| 8/10/2023 | 0.027 | <0.005 | | <0.005 | | |
| 8/11/2023 | | | | | <0.005 | |
| 8/12/2023 | | | <0.005 | | | <0.005 |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|-------------|-------------|--------|-------------|--------|
| 3/12/2019 | <0.005 | 0.00057 (J) | | | |
| 3/13/2019 | | | <0.005 | 0.00055 (J) | <0.005 |
| 4/2/2019 | <0.005 | 0.00084 (J) | | | |
| 4/3/2019 | | | <0.005 | <0.005 | <0.005 |
| 9/24/2019 | | 0.0015 (J) | | | |
| 9/25/2019 | | | <0.005 | | |
| 9/26/2019 | <0.005 | | | 0.00036 (J) | <0.005 |
| 3/2/2020 | | 0.00067 (J) | <0.005 | | |
| 3/3/2020 | | | | 0.00094 (J) | <0.005 |
| 3/4/2020 | 0.00093 (J) | | | | |
| 3/26/2020 | | | <0.005 | | |
| 3/27/2020 | <0.005 | | | 0.00059 (J) | |
| 3/30/2020 | | 0.00063 (J) | | | <0.005 |
| 9/16/2020 | | 0.0013 (J) | | | |
| 9/17/2020 | | | <0.005 | | |
| 9/21/2020 | <0.005 | | | 0.00041 (J) | <0.005 |
| 2/10/2021 | <0.005 | | | | |
| 2/15/2021 | | 0.00097 (J) | | | <0.005 |
| 2/16/2021 | | | <0.005 | 0.00045 (J) | |
| 3/15/2021 | <0.005 | 0.0011 (J) | | | <0.005 |
| 3/16/2021 | | | <0.005 | 0.00042 (J) | |
| 8/16/2021 | | 0.0014 (J) | | | |
| 8/17/2021 | | | <0.005 | <0.005 | <0.005 |
| 8/18/2021 | <0.005 | | | | |
| 2/8/2022 | | | | | <0.005 |
| 2/9/2022 | | | <0.005 | 0.00059 (J) | |
| 2/10/2022 | <0.005 | 0.00089 (J) | | | |
| 8/3/2022 | | 0.0012 (J) | <0.005 | 0.00041 (J) | |
| 8/4/2022 | <0.005 | | | | <0.005 |
| 1/26/2023 | <0.005 | 0.00056 (J) | <0.005 | 0.00044 (J) | <0.005 |
| 8/10/2023 | | <0.005 | <0.005 | 0.00041 (J) | <0.005 |
| 8/11/2023 | <0.005 | | | | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|-----------|
| 5/19/2016 | 0.397 (U) | 0.627 (U) | 0.342 (U) | | | |
| 5/23/2016 | | | | | | 0.419 (U) |
| 7/11/2016 | 0.738 (U) | 1.38 | | | | |
| 7/12/2016 | | | 0.499 (U) | | | 0.855 |
| 8/30/2016 | 0.581 (U) | 1.05 (U) | 0.976 (U) | | | |
| 9/1/2016 | | | | | | 0.844 (U) |
| 10/19/2016 | 0.213 (U) | 1.11 (U) | 0.626 (U) | | | |
| 10/24/2016 | | | | | | 0.917 (U) |
| 12/6/2016 | 0.444 (U) | 0.741 (U) | 0.805 (U) | | | |
| 12/7/2016 | | | | | | 0.558 (U) |
| 1/24/2017 | 0.373 (U) | 0.908 (U) | 0.336 (U) | | | |
| 1/26/2017 | | | | | | 0.922 (U) |
| 3/21/2017 | 0.816 (U) | 0.567 (U) | 0.358 (U) | | | |
| 3/22/2017 | | | | | | 0.751 (U) |
| 5/22/2017 | 0.554 (U) | 0.638 (U) | 0.744 (U) | | | |
| 5/24/2017 | | | | | | 0.725 (U) |
| 4/2/2018 | 0.405 (U) | 0.761 (U) | | | | |
| 4/3/2018 | | | 0.684 (U) | | | |
| 4/4/2018 | | | | | | 0.715 (U) |
| 6/4/2018 | 1.13 (U) | 0.975 (U) | 0.0291 (U) | | | |
| 6/5/2018 | | | | | | 0.718 (U) |
| 10/1/2018 | 0.132 (U) | 0.434 (U) | 0.781 (U) | | | |
| 10/2/2018 | | | | | | 0.948 |
| 3/12/2019 | 0.327 (U) | 0.454 (U) | 1.01 (U) | | | |
| 3/13/2019 | | | | | | 1.19 (U) |
| 4/1/2019 | | | 0.76 (U) | | | |
| 4/2/2019 | 0.739 (U) | 0.651 (U) | | | | |
| 4/3/2019 | | | | | | 1.82 (U) |
| 9/27/2019 | | | | | | 1.16 (U) |
| 9/30/2019 | 0.306 (U) | 1.04 (U) | 0.384 (U) | | | |
| 3/2/2020 | 0.61 (U) | 1.58 | 0.249 (U) | | | |
| 3/3/2020 | | | | | | 0.667 (U) |
| 3/25/2020 | 4.36 | 0.621 (U) | 0.833 (U) | | | |
| 4/1/2020 | | | | | | 0.235 (U) |
| 9/15/2020 | 0.748 (U) | 0.124 (U) | 0.161 (U) | | | |
| 9/16/2020 | | | | 0.531 (U) | 0.422 (U) | 0 (U) |
| 11/10/2020 | | | | 0.788 (U) | 0.293 (U) | |
| 12/15/2020 | | | | 1.04 (U) | 0.7 (U) | |
| 1/19/2021 | | | | 0.685 (U) | 0.79 (U) | |
| 2/8/2021 | 0.223 (U) | | | | | |
| 2/9/2021 | | 0.721 (U) | 0.447 (U) | 0.138 (U) | 0.486 (U) | |
| 2/15/2021 | | | | | | 1.91 |
| 3/10/2021 | 0 (U) | | | | 0.811 (U) | |
| 3/11/2021 | | 0.737 (U) | 0.128 (U) | 1.51 (U) | | |
| 3/12/2021 | | | | | | 1.12 (U) |
| 8/11/2021 | 0.115 (U) | | | 0.394 (U) | | |
| 8/12/2021 | | 0.746 (U) | 0.389 (U) | | | |
| 8/13/2021 | | | | | 1.2 | |
| 8/17/2021 | | | | | | 0.595 (U) |
| 2/1/2022 | 0.143 (U) | 0.588 (U) | 0.266 (U) | 1.12 | 0.665 (U) | |
| 2/9/2022 | | | | | | 0.49 (U) |
| 8/2/2022 | 0.203 (U) | 0.861 (U) | 0.4 (U) | 0.662 (U) | 0.952 (U) | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|-----------|
| 8/3/2022 | | | | | | 0.454 (U) |
| 1/23/2023 | | | 0.311 (U) | | | |
| 1/24/2023 | 0.549 (U) | 0.829 (U) | | 1.25 | 0.421 (U) | |
| 1/27/2023 | | | | | | 1.2 |
| 8/8/2023 | 0.195 (U) | 0.175 (U) | 0.411 (U) | 0.503 (U) | 0.163 (U) | |
| 8/10/2023 | | | | | | 0.831 (U) |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 5/20/2016 | | | | 0.62 (U) | 0.56 (U) | |
| 5/23/2016 | 0.509 (U) | 1.12 | 0.625 (U) | | | 0.826 (U) |
| 7/12/2016 | 0.784 (U) | 1.61 | 0.478 (U) | 0.283 (U) | 0.636 (U) | 0.511 (U) |
| 9/1/2016 | 0.261 (U) | 1.23 | 0.595 (U) | 0.703 (U) | 0.818 (U) | 0.762 (U) |
| 10/20/2016 | | | | 1.97 | 1.04 (U) | 1.17 |
| 10/24/2016 | 1.42 | 1.98 | 1.54 | | | |
| 12/6/2016 | | | | 2 | 0.771 (U) | 0.126 (U) |
| 12/7/2016 | 0.781 (U) | 0.319 (U) | 0.657 (U) | | | |
| 1/25/2017 | | | | 1.06 (U) | 0.859 (U) | |
| 1/26/2017 | 0.842 (U) | 0.54 (U) | 1.22 | | | 0.515 (U) |
| 3/21/2017 | | | | 0.668 (U) | 0.851 (U) | |
| 3/22/2017 | 0.318 (U) | 0.635 (U) | 0.285 (U) | | | 0.451 (U) |
| 5/23/2017 | | | | 0.621 (U) | 0.705 (U) | 0.924 (U) |
| 5/24/2017 | 0.687 (U) | 1.01 | 0.655 (U) | | | |
| 4/3/2018 | | | | 0.538 (U) | 0.311 (U) | 0.732 (U) |
| 4/4/2018 | 1.5 | 0.956 | 0.882 (U) | | | |
| 6/5/2018 | 0.549 (U) | | 1.1 (U) | 0.985 (U) | | |
| 6/6/2018 | | 0.424 (U) | | | 0.896 (U) | 0.813 (U) |
| 10/2/2018 | | | | 0.837 (U) | 1.21 | 0.61 (U) |
| 10/3/2018 | 1.48 | 0.57 (U) | | | | |
| 10/5/2018 | | | 0.558 (U) | | | |
| 3/12/2019 | | | | | 0.544 (U) | |
| 3/13/2019 | 0.584 (U) | | 0.39 (U) | 0.403 (U) | | 1 (U) |
| 3/14/2019 | | 0.992 (U) | | | | |
| 4/2/2019 | | | | 0.865 (U) | | |
| 4/3/2019 | 0.36 (U) | 0.734 (U) | | | 0.885 (U) | 0.156 (U) |
| 4/5/2019 | | | 0.422 (U) | | | |
| 9/24/2019 | | | | | 1.3 | |
| 9/25/2019 | | | | 0.884 (U) | | |
| 9/26/2019 | | | 0.939 (U) | | | |
| 9/27/2019 | 1.78 | 0.958 (U) | | | | 0.428 (U) |
| 3/3/2020 | 0.716 (U) | 0.971 (U) | | | 0.835 (U) | |
| 3/4/2020 | | | 0.708 (U) | 0.624 (U) | | 1.03 |
| 3/26/2020 | | 0.209 (U) | | | | |
| 3/27/2020 | | | | 0.485 (U) | 1.04 (U) | |
| 3/30/2020 | | | 0.602 (U) | | | |
| 3/31/2020 | 1.3 (U) | | | | | 1.2 (U) |
| 9/16/2020 | | | | 0.135 (U) | 0.526 (U) | |
| 9/17/2020 | | | | | | 1.38 (U) |
| 9/18/2020 | 1.24 (U) | 0.916 (U) | | | | |
| 9/21/2020 | | | 1.53 | | | |
| 2/10/2021 | | | | 0.281 (U) | | |
| 2/12/2021 | 1.1 | 0.236 (U) | | | | |
| 2/16/2021 | | | | | 0.764 (U) | 1.17 (U) |
| 2/22/2021 | | | 1.02 | | | |
| 3/15/2021 | | | | 0.666 (U) | 1.3 (U) | |
| 3/16/2021 | 1.71 | 0.245 (U) | | | | 0.446 (U) |
| 3/17/2021 | | | 1.45 (U) | | | |
| 8/16/2021 | | | | 0.143 (U) | | |
| 8/17/2021 | | | | | | 0.771 (U) |
| 8/18/2021 | 0.919 (U) | 0.919 (U) | | | 1.02 (U) | |
| 8/19/2021 | | | 0.764 (U) | | | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 2/9/2022 | 0.444 (U) | 0.564 (U) | | | | 0.198 (U) |
| 2/10/2022 | | | 0.442 (U) | 0.175 (U) | 0.945 (U) | |
| 8/3/2022 | 0.823 (U) | 0.418 (U) | 0.54 (U) | 0.42 (U) | 0.455 (U) | |
| 8/4/2022 | | | | | | 0.597 (U) |
| 8/11/2022 | | | | 0.461 (U) | | |
| 1/26/2023 | 0.441 (U) | 0.877 | 0.719 | | | 0.516 (U) |
| 1/27/2023 | | | | 0.45 (U) | | |
| 2/1/2023 | | | | | 0.241 (U) | |
| 8/10/2023 | 0.273 (U) | 0.453 (U) | | | | |
| 8/11/2023 | | | | | | 0.867 (U) |
| 8/12/2023 | | | 0.58 (U) | 0.729 (U) | 0.767 (U) | |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-----------|-----------|------------|-----------|------------|-----------|
| 3/13/2019 | | 0.538 (U) | 0.311 (U) | | 0.627 (U) | 1.81 |
| 3/14/2019 | 0.347 (U) | | | 1.28 (U) | | |
| 4/2/2019 | | 1.02 (U) | | | | |
| 4/3/2019 | 0.884 (U) | | | 0.662 (U) | 0.205 (U) | |
| 4/4/2019 | | | | | | 1.33 |
| 4/8/2019 | | | 0.573 (U) | | | |
| 9/25/2019 | | 1.35 (U) | | | | |
| 9/26/2019 | | | 0.878 (U) | | 0.912 (U) | 0.974 (U) |
| 9/27/2019 | 0.534 (U) | | | 0.945 (U) | | |
| 3/2/2020 | | 0.653 (U) | | | | |
| 3/3/2020 | | | | 1.36 | | |
| 3/4/2020 | 1.04 | | 0.333 (U) | | 1.27 (U) | 1.12 |
| 3/26/2020 | 1.1 (U) | | | 0.793 (U) | | |
| 3/27/2020 | | 0.1 (U) | | | | |
| 3/30/2020 | | | 0.107 (U) | | | |
| 3/31/2020 | | | | | 1.65 | |
| 4/2/2020 | | | | | | 2.48 |
| 9/17/2020 | | 0.469 (U) | | | 0.42 (U) | |
| 9/18/2020 | | | | 1.17 (U) | | 1.13 (U) |
| 9/21/2020 | 1.36 (U) | | 1.23 (U) | | | |
| 2/11/2021 | | 0.334 (U) | | | | |
| 2/12/2021 | 0.764 (U) | | | 1.17 | | |
| 2/16/2021 | | | 0.156 (U) | | 0.505 (U) | 1.21 |
| 3/12/2021 | | | | | | 0.649 (U) |
| 3/15/2021 | | 1.24 (U) | | | | |
| 3/16/2021 | | | | 0.742 (U) | | |
| 3/17/2021 | 0.466 (U) | | 0.174 (U) | | 0.165 (U) | |
| 8/17/2021 | | 0.709 (U) | | | 0.0468 (U) | 1.06 (U) |
| 8/18/2021 | 0.642 (U) | | | | | |
| 8/19/2021 | | | 0.227 (U) | 0.935 (U) | | |
| 2/9/2022 | 0.245 (U) | | | 0.754 (U) | 0.0677 (U) | |
| 2/10/2022 | | 0.32 (U) | 0.178 (U) | | | 0.809 (U) |
| 8/3/2022 | | | 0.263 (U) | | | 0.685 (U) |
| 8/4/2022 | 0.509 (U) | 1.05 (U) | | 1.65 | 0.0273 (U) | |
| 1/26/2023 | 0.333 (U) | 0.561 (U) | 0.0906 (U) | 1.1 | 0.386 (U) | |
| 1/27/2023 | | | | | | 1.1 |
| 8/10/2023 | 0.437 (U) | 0.469 (U) | | 0.972 | | |
| 8/11/2023 | | | | | 0.55 (U) | |
| 8/12/2023 | | | 0.481 (U) | | | 0.645 (U) |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 3/12/2019 | 0.926 (U) | 1.37 | | | |
| 3/13/2019 | | | 0.621 (U) | 2.07 | 1.23 |
| 4/2/2019 | 0.479 (U) | 0.62 (U) | | | |
| 4/3/2019 | | | 0.932 (U) | 0.872 (U) | 1.05 (U) |
| 9/24/2019 | | 0.675 (U) | | | |
| 9/25/2019 | | | 0.798 (U) | | |
| 9/26/2019 | 0.997 (U) | | | 0.745 (U) | 0.947 (U) |
| 3/2/2020 | | 0.413 (U) | 0.964 (U) | | |
| 3/3/2020 | | | | 0.757 (U) | 1.15 |
| 3/4/2020 | 1.31 | | | | |
| 3/26/2020 | | | 1.1 | | |
| 3/27/2020 | 1.59 | | | 0.758 (U) | |
| 3/30/2020 | | 0.885 (U) | | | 0.83 (U) |
| 9/16/2020 | | 0.193 (U) | | | |
| 9/17/2020 | | | 0.618 (U) | | |
| 9/21/2020 | 1.39 (U) | | | 0.796 (U) | 1.55 (U) |
| 2/10/2021 | 0.201 (U) | | | | |
| 2/15/2021 | | 1.17 (U) | | | 0.892 (U) |
| 2/16/2021 | | | 0.466 (U) | 0.198 (U) | |
| 3/15/2021 | 0.564 (U) | 0.436 (U) | | | 0.386 (U) |
| 3/16/2021 | | | 1.22 | 0.727 (U) | |
| 8/16/2021 | | 0.208 (U) | | | |
| 8/17/2021 | | | 0.304 (U) | 0.557 (U) | 0.183 (U) |
| 8/18/2021 | 0.876 (U) | | | | |
| 2/8/2022 | | | | | 0.417 (U) |
| 2/9/2022 | | | 0.567 (U) | 0.619 (U) | |
| 2/10/2022 | 1.96 (U) | 0.594 (U) | | | |
| 8/3/2022 | | 0.581 (U) | 0.63 (U) | 0.543 (U) | |
| 8/4/2022 | 0.84 (U) | | | | 1.18 (U) |
| 1/26/2023 | 0.821 | 0.793 (U) | 0.909 | 0.493 (U) | 0.318 (U) |
| 8/10/2023 | | 0.244 (U) | 0.599 (U) | 0.839 (U) | 0.239 (U) |
| 8/11/2023 | 2.66 | | | | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|------------|
| 5/19/2016 | 0.105 (J) | 0.0303 (J) | 0.0513 (J) | | | |
| 5/23/2016 | | | | | | 0.0394 (J) |
| 7/11/2016 | 0.16 (J) | 0.05 (J) | | | | |
| 7/12/2016 | | | 0.12 (J) | | | 0.15 (J) |
| 8/30/2016 | 0.09 (J) | 0.06 (J) | 0.09 (J) | | | |
| 9/1/2016 | | | | | | 0.5 |
| 10/19/2016 | 0.1 (J) | 0.04 (J) | 0.1 (J) | | | |
| 10/24/2016 | | | | | | 0.06 (J) |
| 12/6/2016 | 0.11 (J) | 0.36 | 0.21 (J) | | | |
| 12/7/2016 | | | | | | 0.44 |
| 1/24/2017 | 0.09 (J) | <0.1 | 0.06 (J) | | | |
| 1/26/2017 | | | | | | 0.29 (J) |
| 3/21/2017 | 0.13 (J) | <0.1 | 0.005 (J) | | | |
| 3/22/2017 | | | | | | 0.34 |
| 5/22/2017 | 0.12 (J) | <0.1 | 0.05 (J) | | | |
| 5/24/2017 | | | | | | 0.13 (J) |
| 10/3/2017 | 0.13 (J) | <0.1 | 0.13 (J) | | | 0.46 |
| 4/2/2018 | <0.3 | <0.1 | | | | |
| 4/3/2018 | | | <0.1 | | | |
| 4/4/2018 | | | | | | <0.1 |
| 6/4/2018 | 0.074 (J) | <0.1 | <0.1 | | | |
| 6/5/2018 | | | | | | <0.1 |
| 10/1/2018 | <0.3 | <0.1 | <0.1 | | | |
| 10/2/2018 | | | | | | 0.17 (J) |
| 3/12/2019 | 0.29 (J) | 0.038 (J) | 0.072 (J) | | | |
| 3/13/2019 | | | | | | 0.17 (J) |
| 4/1/2019 | | | 0.029 (J) | | | |
| 4/2/2019 | 0.1 (J) | 0.071 (J) | | | | |
| 4/3/2019 | | | | | | 0.082 (J) |
| 9/23/2019 | 0.078 (J) | <0.1 | <0.1 | | | |
| 9/27/2019 | | | | | | 0.17 (J) |
| 3/2/2020 | 0.076 (J) | <0.1 | <0.1 | | | |
| 3/3/2020 | | | | | | 0.11 (J) |
| 3/25/2020 | 0.098 (J) | <0.1 | <0.1 | | | |
| 4/1/2020 | | | | | | 0.12 (J) |
| 6/16/2020 | 0.071 (J) | | <0.1 | | | |
| 9/15/2020 | 0.082 (J) | <0.1 | <0.1 | | | |
| 9/16/2020 | | | | 0.22 | 0.52 | <0.1 |
| 11/10/2020 | | | | 0.19 | 0.59 | |
| 12/15/2020 | | | | 0.21 | 0.67 | |
| 1/19/2021 | | | | 0.16 | 0.74 | |
| 2/8/2021 | 0.078 (J) | | | | | |
| 2/9/2021 | | <0.1 | 0.074 (J) | 0.19 | 0.44 | |
| 2/15/2021 | | | | | | 0.08 (J) |
| 3/10/2021 | 0.079 (J) | | | | 0.65 | |
| 3/11/2021 | | 0.1 | <0.1 | 0.2 | | |
| 3/12/2021 | | | | | | 0.054 (J) |
| 8/11/2021 | 0.058 (J) | | | 0.15 | | |
| 8/12/2021 | | <0.1 | <0.1 | | | |
| 8/13/2021 | | | | | 0.87 | |
| 8/17/2021 | | | | | | <0.1 |
| 2/1/2022 | 0.064 (J) | <0.1 | <0.1 | 0.19 | 0.96 | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|----------|
| 2/9/2022 | | | | | | 0.12 |
| 8/2/2022 | 0.09 (J) | 0.053 (J) | 0.067 (J) | 0.22 | 0.8 | |
| 8/3/2022 | | | | | | 0.13 |
| 1/23/2023 | | | 0.061 (J) | | | |
| 1/24/2023 | 0.089 (J) | 0.053 (J) | | 0.23 | 1.3 | |
| 1/27/2023 | | | | | | 0.16 |
| 8/8/2023 | 0.088 (J) | 0.07 (J) | 0.055 (J) | 0.18 | 1.3 | |
| 8/10/2023 | | | | | | 0.05 (J) |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-----------|-----------|------------|------------|--------|-----------|
| 5/20/2016 | | | | 0.0828 (J) | 0.499 | |
| 5/23/2016 | 0.203 (J) | 0.212 (J) | 0.2587 (J) | | | <0.3 |
| 7/12/2016 | 0.44 | 0.31 | 0.53 | 0.2 (J) | 0.67 | 0.24 (J) |
| 9/1/2016 | 0.67 | 0.62 | 0.74 | 0.51 | 0.94 | 0.46 |
| 10/20/2016 | | | | 0.4 | 0.56 | 0.56 |
| 10/24/2016 | 0.26 (J) | 0.19 (J) | 0.31 | | | |
| 12/6/2016 | | | | 0.26 (J) | 0.76 | 0.31 |
| 12/7/2016 | 0.55 | 0.73 | 1 | | | |
| 1/25/2017 | | | | 0.24 (J) | 1.1 | |
| 1/26/2017 | 0.27 (J) | 0.12 (J) | 0.68 | | | 0.004 (J) |
| 3/21/2017 | | | | 0.13 (J) | 0.46 | |
| 3/22/2017 | 0.66 | 0.44 | 0.76 | | | 0.28 (J) |
| 5/23/2017 | | | | 0.11 (J) | 0.65 | 0.29 (J) |
| 5/24/2017 | 0.35 | 0.34 | 0.54 | | | |
| 10/3/2017 | 0.56 | 0.58 | 0.83 | 0.17 (J) | 0.66 | 0.53 |
| 4/3/2018 | | | | <0.3 | 0.39 | <0.3 |
| 4/4/2018 | 0.39 | <0.3 | 0.65 | | | |
| 6/5/2018 | 0.24 (J) | | 0.47 | 0.099 (J) | | |
| 6/6/2018 | | 0.21 (J) | | | 0.46 | 0.12 (J) |
| 10/2/2018 | | | | <0.3 | 0.51 | 0.031 (J) |
| 10/3/2018 | 0.31 | 0.15 (J) | | | | |
| 10/5/2018 | | | 0.77 | | | |
| 3/12/2019 | | | | | 0.58 | |
| 3/13/2019 | 0.51 | | 0.78 | 0.12 (J) | | 0.14 (J) |
| 3/14/2019 | | 1.1 | | | | |
| 4/2/2019 | | | | 0.097 (J) | | |
| 4/3/2019 | 0.43 | 0.3 (J) | | | 0.63 | 0.14 (J) |
| 4/5/2019 | | | 0.83 | | | |
| 9/24/2019 | | | | | 0.49 | |
| 9/25/2019 | | | | 0.1 (J) | | |
| 9/26/2019 | | | 0.64 | | | |
| 9/27/2019 | 0.42 | 0.26 (J) | | | | 0.26 (J) |
| 3/3/2020 | 0.24 (J) | 0.21 (J) | | | 0.45 | |
| 3/4/2020 | | | 0.37 | 0.077 (J) | | 0.08 (J) |
| 3/26/2020 | | 0.17 (J) | | | | |
| 3/27/2020 | | | | 0.059 (J) | 0.46 | |
| 3/30/2020 | | | 0.44 | | | |
| 3/31/2020 | 0.19 (J) | | | | | 0.074 (J) |
| 6/16/2020 | | | | | 0.45 | |
| 6/17/2020 | | | | 0.077 (J) | | |
| 9/16/2020 | | | | 0.081 (J) | 0.53 | |
| 9/17/2020 | | | | | | 0.1 |
| 9/18/2020 | 0.15 | 0.15 | | | | |
| 9/21/2020 | | | 0.44 | | | |
| 2/10/2021 | | | | 0.085 (J) | | |
| 2/12/2021 | 0.17 | 0.19 | | | | |
| 2/16/2021 | | | | | 0.47 | 0.096 (J) |
| 2/22/2021 | | | 0.55 | | | |
| 3/15/2021 | | | | 0.086 (J) | 0.51 | |
| 3/16/2021 | 0.21 | 0.2 | | | | 0.098 (J) |
| 3/17/2021 | | | 0.65 | | | |
| 8/16/2021 | | | | 0.084 (J) | | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|---------|---------|-----------|--------|-----------|
| 8/17/2021 | | | | | | 0.095 (J) |
| 8/18/2021 | 0.21 | 0.15 | | | 0.41 | |
| 8/19/2021 | | | 0.53 | | | |
| 2/9/2022 | 0.2 | 0.2 | | | | 0.1 |
| 2/10/2022 | | | 0.53 | 0.083 (J) | 0.42 | |
| 8/3/2022 | 0.22 | 0.21 | 0.55 | 0.11 | 0.44 | |
| 8/4/2022 | | | | | | 0.13 |
| 8/11/2022 | | | | 0.11 | | |
| 1/26/2023 | 0.2 | 0.21 | 0.4 | | | 0.11 |
| 1/27/2023 | | | | 0.1 | | |
| 2/1/2023 | | | | | 0.4 | |
| 8/10/2023 | 0.15 | 0.17 | | | | |
| 8/11/2023 | | | | | | 0.12 |
| 8/12/2023 | | | 0.32 | 0.071 (J) | 0.59 | |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-----------|-----------|-----------|--------|-----------|----------|
| 3/13/2019 | | 0.072 (J) | 0.074 (J) | | 0.052 (J) | 0.28 (J) |
| 3/14/2019 | 0.35 | | | 2.2 | | |
| 4/2/2019 | | <0.1 | | | | |
| 4/3/2019 | 0.19 (J) | | | 1.6 | 0.044 (J) | |
| 4/4/2019 | | | | | | 0.26 (J) |
| 4/8/2019 | | | 0.048 (J) | | | |
| 9/25/2019 | | <0.1 | | | | |
| 9/26/2019 | | | 0.18 (J) | | 0.19 (J) | 0.42 |
| 9/27/2019 | 0.53 | | | 1.5 | | |
| 3/2/2020 | | <0.1 | | | | |
| 3/3/2020 | | | | 1.4 | | |
| 3/4/2020 | 0.096 (J) | | 0.051 (J) | | 0.052 (J) | 0.25 (J) |
| 3/26/2020 | 0.12 (J) | | | 1.6 | | |
| 3/27/2020 | | <0.1 | | | | |
| 3/30/2020 | | | 0.064 (J) | | | |
| 3/31/2020 | | | | | <0.3 | |
| 4/2/2020 | | | | | | 0.24 (J) |
| 9/17/2020 | | <0.1 | | | 0.069 (J) | |
| 9/18/2020 | | | | 1.6 | | 0.22 |
| 9/21/2020 | 0.17 | | <0.1 | | | |
| 2/11/2021 | | <0.1 | | | | |
| 2/12/2021 | 0.16 | | | 1.6 | | |
| 2/16/2021 | | | <0.1 | | 0.071 (J) | 0.25 |
| 3/12/2021 | | | | | | 0.24 |
| 3/15/2021 | | <0.1 | | | | |
| 3/16/2021 | | | | 1.7 | | |
| 3/17/2021 | 0.18 | | <0.1 | | 0.072 (J) | |
| 8/17/2021 | | <0.1 | | | 0.075 (J) | 0.24 |
| 8/18/2021 | 0.12 | | | | | |
| 8/19/2021 | | | <0.1 | 1.5 | | |
| 2/9/2022 | 0.076 (J) | | | 1.7 | 0.092 (J) | |
| 2/10/2022 | | <0.1 | 0.051 (J) | | | 0.25 |
| 8/3/2022 | | | 0.075 (J) | | | 0.27 |
| 8/4/2022 | 0.18 | 0.074 (J) | | 1.5 | 0.12 | |
| 1/26/2023 | 0.098 (J) | 0.081 (J) | 0.083 (J) | 1.6 | 0.11 | |
| 1/27/2023 | | | | | | 0.3 |
| 8/10/2023 | 0.14 | <0.1 | | 1.5 | | |
| 8/11/2023 | | | | | 0.083 (J) | |
| 8/12/2023 | | | 0.08 (J) | | | 0.26 |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|----------|-----------|-----------|-----------|-----------|
| 3/12/2019 | 0.24 (J) | 0.07 (J) | | | |
| 3/13/2019 | | | 0.1 (J) | 0.19 (J) | 0.069 (J) |
| 4/2/2019 | 0.18 (J) | 0.045 (J) | | | |
| 4/3/2019 | | | 0.049 (J) | 0.15 (J) | <0.1 |
| 9/24/2019 | | 0.18 (J) | | | |
| 9/25/2019 | | | 0.076 (J) | | |
| 9/26/2019 | 0.22 (J) | | | 0.19 (J) | 0.17 (J) |
| 3/2/2020 | | <0.1 | 0.065 (J) | | |
| 3/3/2020 | | | | 0.062 (J) | <0.1 |
| 3/4/2020 | 0.26 (J) | | | | |
| 3/26/2020 | | | 0.082 (J) | | |
| 3/27/2020 | 0.26 (J) | | | <0.1 | |
| 3/30/2020 | | <0.1 | | | <0.1 |
| 9/16/2020 | | <0.1 | | | |
| 9/17/2020 | | | 0.094 (J) | | |
| 9/21/2020 | 0.1 | | | <0.1 | <0.1 |
| 2/10/2021 | 0.16 | | | | |
| 2/15/2021 | | <0.1 | | | <0.1 |
| 2/16/2021 | | | 0.051 (J) | 0.059 (J) | |
| 3/15/2021 | 0.24 | <0.1 | | | <0.1 |
| 3/16/2021 | | | <0.1 | 0.06 (J) | |
| 8/16/2021 | | <0.1 | | | |
| 8/17/2021 | | | <0.1 | 0.055 (J) | <0.1 |
| 8/18/2021 | 0.14 | | | | |
| 2/8/2022 | | | | | <0.1 |
| 2/9/2022 | | | 0.056 (J) | 0.059 (J) | |
| 2/10/2022 | 0.22 | <0.1 | | | |
| 8/3/2022 | | 0.069 (J) | 0.094 (J) | 0.085 (J) | |
| 8/4/2022 | 0.19 | | | | 0.078 (J) |
| 1/26/2023 | 0.22 | 0.068 (J) | 0.087 (J) | 0.088 (J) | 0.06 (J) |
| 8/10/2023 | | <0.1 | 0.066 (J) | 0.053 (J) | <0.1 |
| 8/11/2023 | 0.26 | | | | |

Time Series

Constituent: Lead (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|-----------|
| 5/19/2016 | <0.001 | <0.001 | <0.001 | | | |
| 5/23/2016 | | | | | | <0.001 |
| 7/11/2016 | <0.001 | <0.001 | | | | |
| 7/12/2016 | | | 0.0001 (J) | | | <0.001 |
| 8/30/2016 | <0.001 | <0.001 | <0.001 | | | |
| 9/1/2016 | | | | | | <0.001 |
| 10/19/2016 | <0.001 | <0.001 | <0.001 | | | |
| 10/24/2016 | | | | | | <0.001 |
| 12/6/2016 | <0.001 | <0.001 | <0.001 | | | |
| 12/7/2016 | | | | | | <0.001 |
| 1/24/2017 | <0.001 | <0.001 | <0.001 | | | |
| 1/26/2017 | | | | | | <0.001 |
| 3/21/2017 | <0.001 | 6E-05 (J) | 0.0001 (J) | | | |
| 3/22/2017 | | | | | | <0.001 |
| 5/22/2017 | <0.001 | 9E-05 (J) | <0.001 | | | |
| 5/24/2017 | | | | | | <0.001 |
| 4/2/2018 | <0.001 | <0.001 | | | | |
| 4/3/2018 | | | <0.001 | | | |
| 4/4/2018 | | | | | | <0.001 |
| 3/12/2019 | <0.001 | <0.001 | <0.001 | | | |
| 3/13/2019 | | | | | | <0.001 |
| 9/23/2019 | 7.8E-05 (J) | 9.2E-05 (J) | <0.001 | | | |
| 3/2/2020 | 4.8E-05 (J) | 9.5E-05 (J) | <0.001 | | | |
| 3/3/2020 | | | | | | <0.001 |
| 3/25/2020 | <0.001 | 0.00011 (J) | <0.001 | | | |
| 4/1/2020 | | | | | | 5E-05 (J) |
| 9/15/2020 | <0.001 | 8E-05 (J) | 4.2E-05 (J) | | | |
| 9/16/2020 | | | | 5E-05 (J) | 0.00021 (J) | <0.001 |
| 11/10/2020 | | | | 6.9E-05 (J) | 0.0002 (J) | |
| 12/15/2020 | | | | 8.2E-05 (J) | 0.00011 (J) | |
| 1/19/2021 | | | | 4.4E-05 (J) | 0.00019 (J) | |
| 2/8/2021 | 5.8E-05 (J) | | | | | |
| 2/9/2021 | | 9.4E-05 (J) | <0.001 | 0.00029 (J) | 0.0001 (J) | |
| 2/15/2021 | | | | | | <0.001 |
| 3/10/2021 | <0.001 | | | | <0.001 | |
| 3/11/2021 | | 7.6E-05 (J) | <0.001 | 9.4E-05 (J) | | |
| 3/12/2021 | | | | | | <0.001 |
| 8/11/2021 | <0.001 | | | <0.001 | | |
| 8/12/2021 | | <0.001 | <0.001 | | | |
| 8/13/2021 | | | | | <0.001 | |
| 8/17/2021 | | | | | | <0.001 |
| 2/1/2022 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 2/9/2022 | | | | | | <0.001 |
| 8/2/2022 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 8/3/2022 | | | | | | <0.001 |
| 1/23/2023 | | | <0.001 | | | |
| 1/24/2023 | <0.001 | <0.001 | | <0.001 | <0.001 | |
| 1/27/2023 | | | | | | <0.001 |
| 8/8/2023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 8/10/2023 | | | | | | <0.001 |

Time Series

Constituent: Lead (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 5/20/2016 | | | | <0.001 | <0.001 | |
| 5/23/2016 | <0.001 | <0.001 | <0.001 | | | <0.001 |
| 7/12/2016 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 9/1/2016 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 10/20/2016 | | | | <0.001 | <0.001 | <0.001 |
| 10/24/2016 | <0.001 | <0.001 | <0.001 | | | |
| 12/6/2016 | | | | 0.0001 (J) | <0.001 | 0.0002 (J) |
| 12/7/2016 | <0.001 | <0.001 | <0.001 | | | |
| 1/25/2017 | | | | 0.0001 (J) | <0.001 | |
| 1/26/2017 | <0.001 | <0.001 | <0.001 | | | 0.0001 (J) |
| 3/21/2017 | | | | 9E-05 (J) | <0.001 | |
| 3/22/2017 | 0.0003 (J) | <0.001 | 7E-05 (J) | | | <0.001 |
| 5/23/2017 | | | | 8E-05 (J) | <0.001 | 0.0001 (J) |
| 5/24/2017 | 9E-05 (J) | <0.001 | <0.001 | | | |
| 4/3/2018 | | | | <0.001 | <0.001 | <0.001 |
| 4/4/2018 | <0.001 | <0.001 | <0.001 | | | |
| 3/12/2019 | | | | | <0.001 | |
| 3/13/2019 | <0.001 | | <0.001 | <0.001 | | <0.001 |
| 3/14/2019 | | <0.001 | | | | |
| 3/3/2020 | 0.00021 (J) | 5.6E-05 (J) | | | 0.00013 (J) | |
| 3/4/2020 | | | 0.00014 (J) | 0.00051 (J) | | 8.4E-05 (J) |
| 3/26/2020 | | 0.00043 (J) | | | | |
| 3/27/2020 | | | | 5.4E-05 (J) | <0.001 | |
| 3/30/2020 | | | 0.0001 (J) | | | |
| 3/31/2020 | 0.0003 (J) | | | | | 0.00014 (J) |
| 9/16/2020 | | | | 0.0002 (J) | 0.0002 (J) | |
| 9/17/2020 | | | | | | 0.00022 (J) |
| 9/18/2020 | 6E-05 (J) | 9.6E-05 (J) | | | | |
| 9/21/2020 | | | 0.00015 (J) | | | |
| 2/10/2021 | | | | 0.00056 (J) | | |
| 2/12/2021 | <0.001 | 6.7E-05 (J) | | | | |
| 2/16/2021 | | | | | 8.6E-05 (J) | 0.0002 (J) |
| 2/22/2021 | | | 0.00018 (J) | | | |
| 3/15/2021 | | | | 0.0013 | 0.00011 (J) | |
| 3/16/2021 | 9.9E-05 (J) | 8.9E-05 (J) | | | | 0.00027 (J) |
| 3/17/2021 | | | 0.00015 (J) | | | |
| 8/16/2021 | | | | <0.001 | | |
| 8/17/2021 | | | | | | <0.001 |
| 8/18/2021 | <0.001 | <0.001 | | | <0.001 | |
| 8/19/2021 | | | <0.001 | | | |
| 2/9/2022 | <0.001 | <0.001 | | | | <0.001 |
| 2/10/2022 | | | <0.001 | <0.001 | <0.001 | |
| 8/3/2022 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 8/4/2022 | | | | | | <0.001 |
| 8/11/2022 | | | | <0.001 | | |
| 1/26/2023 | <0.001 | <0.001 | <0.001 | | | <0.001 |
| 1/27/2023 | | | | <0.001 | | |
| 2/1/2023 | | | | | <0.001 | |
| 8/10/2023 | <0.001 | <0.001 | | | | |
| 8/11/2023 | | | | | | <0.001 |
| 8/12/2023 | | | <0.001 | <0.001 | <0.001 | |

Time Series

Constituent: Lead (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------------|-------------|-------------|--------|------------|-------------|
| 3/13/2019 | | <0.001 | <0.001 | | <0.001 | <0.001 |
| 3/14/2019 | <0.001 | | | <0.001 | | |
| 3/2/2020 | | 0.00017 (J) | | | | |
| 3/3/2020 | | | | <0.001 | | |
| 3/4/2020 | 0.00011 (J) | | 0.00019 (J) | | <0.001 | <0.001 |
| 3/26/2020 | <0.001 | | | <0.001 | | |
| 3/27/2020 | | 0.00013 (J) | | | | |
| 3/30/2020 | | | 6.4E-05 (J) | | | |
| 3/31/2020 | | | | | 0.0001 (J) | |
| 4/2/2020 | | | | | | 0.00013 (J) |
| 9/17/2020 | | <0.001 | | | <0.001 | |
| 9/18/2020 | | | | <0.001 | | <0.001 |
| 9/21/2020 | 8.5E-05 (J) | | 4.2E-05 (J) | | | |
| 2/11/2021 | | 3.9E-05 (J) | | | | |
| 2/12/2021 | 7.1E-05 (J) | | | <0.001 | | |
| 2/16/2021 | | | 0.00012 (J) | | 8E-05 (J) | 0.00043 (J) |
| 3/12/2021 | | | | | | <0.001 |
| 3/15/2021 | | 0.0001 (J) | | | | |
| 3/16/2021 | | | | <0.001 | | |
| 3/17/2021 | 3.8E-05 (J) | | 4E-05 (J) | | <0.001 | |
| 8/17/2021 | | <0.001 | | | <0.001 | <0.001 |
| 8/18/2021 | <0.001 | | | | | |
| 8/19/2021 | | | <0.001 | <0.001 | | |
| 2/9/2022 | <0.001 | | | <0.001 | <0.001 | |
| 2/10/2022 | | <0.001 | <0.001 | | | <0.001 |
| 8/3/2022 | | | <0.001 | | | <0.001 |
| 8/4/2022 | <0.001 | <0.001 | | <0.001 | <0.001 | |
| 1/26/2023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 1/27/2023 | | | | | | <0.001 |
| 8/10/2023 | <0.001 | <0.001 | | <0.001 | | |
| 8/11/2023 | | | | | <0.001 | |
| 8/12/2023 | | | <0.001 | | | <0.001 |

Time Series

Constituent: Lead (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|-------------|-------------|-------------|-------------|-------------|
| 3/12/2019 | <0.001 | <0.001 | | | |
| 3/13/2019 | | | <0.001 | <0.001 | <0.001 |
| 3/2/2020 | | 9E-05 (J) | 4.7E-05 (J) | | |
| 3/3/2020 | | | | 0.00013 (J) | 6.2E-05 (J) |
| 3/4/2020 | 0.001 (J) | | | | |
| 3/26/2020 | | | <0.001 | | |
| 3/27/2020 | 6.2E-05 (J) | | | <0.001 | |
| 3/30/2020 | | 0.00011 (J) | | | <0.001 |
| 9/16/2020 | | <0.001 | | | |
| 9/17/2020 | | | <0.001 | | |
| 9/21/2020 | 0.00018 (J) | | | 0.00026 (J) | <0.001 |
| 2/10/2021 | 0.00044 (J) | | | | |
| 2/15/2021 | | 5.2E-05 (J) | | | <0.001 |
| 2/16/2021 | | | <0.001 | 8.4E-05 (J) | |
| 3/15/2021 | 0.00034 (J) | <0.001 | | | <0.001 |
| 3/16/2021 | | | <0.001 | 3.6E-05 (J) | |
| 8/16/2021 | | <0.001 | | | |
| 8/17/2021 | | | <0.001 | <0.001 | <0.001 |
| 8/18/2021 | <0.001 | | | | |
| 2/8/2022 | | | | | <0.001 |
| 2/9/2022 | | | <0.001 | <0.001 | |
| 2/10/2022 | <0.001 | <0.001 | | | |
| 8/3/2022 | | <0.001 | <0.001 | <0.001 | |
| 8/4/2022 | <0.001 | | | | <0.001 |
| 1/26/2023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 8/10/2023 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 8/11/2023 | <0.001 | | | | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|---------|
| 5/19/2016 | <0.03 | <0.03 | <0.03 | | | |
| 5/23/2016 | | | | | | <0.03 |
| 7/11/2016 | <0.03 | 0.0014 (J) | | | | |
| 7/12/2016 | | | 0.0024 (J) | | | <0.03 |
| 8/30/2016 | <0.03 | <0.03 | 0.0025 (J) | | | |
| 9/1/2016 | | | | | | <0.03 |
| 10/19/2016 | <0.03 | <0.03 | 0.003 (J) | | | |
| 10/24/2016 | | | | | | <0.03 |
| 12/6/2016 | <0.03 | <0.03 | 0.0033 (J) | | | |
| 12/7/2016 | | | | | | <0.03 |
| 1/24/2017 | <0.03 | <0.03 | 0.003 (J) | | | |
| 1/26/2017 | | | | | | <0.03 |
| 3/21/2017 | <0.03 | 0.0012 (J) | 0.0034 (J) | | | |
| 3/22/2017 | | | | | | <0.03 |
| 5/22/2017 | <0.03 | <0.03 | 0.003 (J) | | | |
| 5/24/2017 | | | | | | <0.03 |
| 4/2/2018 | <0.03 | 0.0015 (J) | | | | |
| 4/3/2018 | | | 0.003 (J) | | | |
| 4/4/2018 | | | | | | <0.03 |
| 6/4/2018 | 0.001 (J) | 0.0016 (J) | 0.0027 (J) | | | |
| 6/5/2018 | | | | | | <0.03 |
| 10/1/2018 | 0.00099 (J) | 0.0013 (J) | 0.0032 (J) | | | |
| 10/2/2018 | | | | | | <0.03 |
| 3/12/2019 | 0.001 (J) | 0.0018 (J) | 0.0032 (J) | | | |
| 3/13/2019 | | | | | | <0.03 |
| 4/1/2019 | | | 0.0032 (J) | | | |
| 4/2/2019 | 0.001 (J) | 0.0018 (J) | | | | |
| 4/3/2019 | | | | | | <0.03 |
| 9/23/2019 | 0.0011 (J) | 0.0016 (J) | 0.0029 (J) | | | |
| 9/27/2019 | | | | | | <0.03 |
| 3/2/2020 | 0.0012 (J) | 0.0017 (J) | 0.0037 (J) | | | |
| 3/3/2020 | | | | | | <0.03 |
| 3/25/2020 | 0.00083 (J) | 0.0017 (J) | 0.0035 (J) | | | |
| 4/1/2020 | | | | | | <0.03 |
| 9/15/2020 | 0.00087 (J) | 0.0015 (J) | 0.0026 (J) | | | |
| 9/16/2020 | | | | 0.0018 (J) | 0.014 (J) | <0.03 |
| 11/10/2020 | | | | 0.0013 (J) | 0.025 (J) | |
| 12/15/2020 | | | | 0.0019 (J) | 0.028 (J) | |
| 1/19/2021 | | | | 0.0025 (J) | 0.034 | |
| 2/8/2021 | 0.00086 (J) | | | | | |
| 2/9/2021 | | 0.0012 (J) | 0.0032 (J) | 0.0026 (J) | 0.026 (J) | |
| 2/15/2021 | | | | | | <0.03 |
| 3/10/2021 | 0.0009 (J) | | | | 0.03 | |
| 3/11/2021 | | 0.0011 (J) | 0.0035 (J) | 0.0022 (J) | | |
| 3/12/2021 | | | | | | <0.03 |
| 8/11/2021 | 0.00078 (J) | | | 0.0024 (J) | | |
| 8/12/2021 | | 0.0012 (J) | 0.0028 (J) | | | |
| 8/13/2021 | | | | | 0.032 | |
| 8/17/2021 | | | | | | <0.03 |
| 2/1/2022 | 0.0011 (J) | 0.0017 (J) | 0.0037 (J) | 0.0024 (J) | 0.048 | |
| 2/9/2022 | | | | | | <0.03 |
| 8/2/2022 | <0.03 | 0.0013 (J) | 0.003 (J) | 0.0019 (J) | 0.041 | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|---------|
| 8/3/2022 | | | | | | <0.03 |
| 1/23/2023 | | | 0.003 (J) | | | |
| 1/24/2023 | 0.00092 (J) | 0.0014 (J) | | 0.002 (J) | 0.064 | |
| 1/27/2023 | | | | | | <0.03 |
| 8/8/2023 | <0.03 | 0.0017 (J) | 0.0031 (J) | 0.0021 (J) | 0.092 (o) | |
| 8/10/2023 | | | | | | <0.03 |

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|---------|------------|------------|------------|------------|------------|
| 5/20/2016 | | | | <0.03 | <0.03 | |
| 5/23/2016 | <0.03 | 0.0107 (J) | 0.0422 (J) | | | <0.03 |
| 7/12/2016 | <0.03 | 0.0113 (J) | 0.0366 (J) | 0.0021 (J) | 0.0023 (J) | 0.004 (J) |
| 9/1/2016 | <0.03 | 0.0118 (J) | 0.04 (J) | 0.0025 (J) | 0.0029 (J) | 0.0044 (J) |
| 10/20/2016 | | | | 0.0021 (J) | 0.0027 (J) | 0.0027 (J) |
| 10/24/2016 | <0.03 | 0.0114 (J) | 0.0435 (J) | | | |
| 12/6/2016 | | | | 0.0026 (J) | 0.0032 (J) | 0.005 (J) |
| 12/7/2016 | <0.03 | 0.0155 (J) | 0.0477 (J) | | | |
| 1/25/2017 | | | | 0.0024 (J) | 0.0026 (J) | |
| 1/26/2017 | <0.03 | 0.0099 (J) | 0.0342 (J) | | | 0.0042 (J) |
| 3/21/2017 | | | | 0.0026 (J) | 0.0029 (J) | |
| 3/22/2017 | <0.03 | 0.0098 (J) | 0.0353 (J) | | | 0.0043 (J) |
| 5/23/2017 | | | | 0.0026 (J) | 0.0029 (J) | 0.0048 (J) |
| 5/24/2017 | <0.03 | 0.0105 (J) | 0.0317 (J) | | | |
| 4/3/2018 | | | | 0.0023 (J) | 0.0025 (J) | 0.0043 (J) |
| 4/4/2018 | <0.03 | 0.008 (J) | 0.031 (J) | | | |
| 6/5/2018 | <0.03 | | 0.031 (J) | 0.0022 (J) | | |
| 6/6/2018 | | 0.0095 (J) | | | 0.0023 (J) | 0.0043 (J) |
| 10/2/2018 | | | | 0.003 (J) | 0.0025 (J) | 0.004 (J) |
| 10/3/2018 | <0.03 | 0.0083 (J) | | | | |
| 10/5/2018 | | | 0.027 (J) | | | |
| 3/12/2019 | | | | | 0.0025 (J) | |
| 3/13/2019 | <0.03 | | 0.029 (J) | 0.0024 (J) | | 0.004 (J) |
| 3/14/2019 | | 0.0058 (J) | | | | |
| 4/2/2019 | | | | 0.002 (J) | | |
| 4/3/2019 | <0.03 | 0.0066 (J) | | | 0.0025 (J) | 0.004 (J) |
| 4/5/2019 | | | 0.023 (J) | | | |
| 9/24/2019 | | | | | 0.0024 (J) | |
| 9/25/2019 | | | | 0.0019 (J) | | |
| 9/26/2019 | | | 0.035 | | | |
| 9/27/2019 | <0.03 | 0.011 (J) | | | | 0.0044 (J) |
| 3/3/2020 | <0.03 | 0.0063 (J) | | | 0.0028 (J) | |
| 3/4/2020 | | | 0.041 | 0.0034 (J) | | 0.004 (J) |
| 3/26/2020 | | 0.0063 (J) | | | | |
| 3/27/2020 | | | | 0.002 (J) | 0.0026 (J) | |
| 3/30/2020 | | | 0.038 | | | |
| 3/31/2020 | <0.03 | | | | | 0.0043 (J) |
| 9/16/2020 | | | | 0.0026 (J) | 0.0033 (J) | |
| 9/17/2020 | | | | | | 0.004 (J) |
| 9/18/2020 | <0.03 | 0.01 (J) | | | | |
| 9/21/2020 | | | 0.028 (J) | | | |
| 2/10/2021 | | | | 0.0032 (J) | | |
| 2/12/2021 | <0.03 | 0.0094 (J) | | | | |
| 2/16/2021 | | | | | 0.0027 (J) | 0.0045 (J) |
| 2/22/2021 | | | 0.032 | | | |
| 3/15/2021 | | | | 0.0038 (J) | 0.0029 (J) | |
| 3/16/2021 | <0.03 | 0.0081 (J) | | | | 0.0046 (J) |
| 3/17/2021 | | | 0.031 | | | |
| 8/16/2021 | | | | 0.0025 (J) | | |
| 8/17/2021 | | | | | | 0.004 (J) |
| 8/18/2021 | <0.03 | 0.0099 (J) | | | 0.0029 (J) | |
| 8/19/2021 | | | 0.028 (J) | | | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|------------|-----------|------------|------------|------------|
| 2/9/2022 | <0.03 | 0.01 (J) | | | | 0.0041 (J) |
| 2/10/2022 | | | 0.031 | 0.0022 (J) | 0.003 (J) | |
| 8/3/2022 | <0.03 | 0.0068 (J) | 0.029 (J) | 0.0019 (J) | 0.0026 (J) | |
| 8/4/2022 | | | | | | 0.0036 (J) |
| 8/11/2022 | | | | 0.0019 (J) | | |
| 1/26/2023 | <0.03 | 0.0058 (J) | 0.04 | | | 0.0032 (J) |
| 1/27/2023 | | | | 0.0018 (J) | | |
| 2/1/2023 | | | | | 0.0015 (J) | |
| 8/10/2023 | <0.03 | 0.0075 (J) | | | | |
| 8/11/2023 | | | | | | 0.0035 (J) |
| 8/12/2023 | | | 0.051 | 0.0023 (J) | 0.0014 (J) | |

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|------------|-------------|------------|-----------|------------|------------|
| 3/13/2019 | | 0.0016 (J) | 0.0029 (J) | | 0.0033 (J) | 0.0097 (J) |
| 3/14/2019 | 0.0089 (J) | | | 0.05 | | |
| 4/2/2019 | | 0.0015 (J) | | | | |
| 4/3/2019 | 0.0061 (J) | | | 0.047 (J) | 0.0034 (J) | |
| 4/4/2019 | | | | | | 0.0069 (J) |
| 4/8/2019 | | | 0.0027 (J) | | | |
| 9/25/2019 | | <0.03 | | | | |
| 9/26/2019 | | | 0.003 (J) | | 0.0041 (J) | 0.0055 (J) |
| 9/27/2019 | 0.013 (J) | | | 0.047 | | |
| 3/2/2020 | | 0.00082 (J) | | | | |
| 3/3/2020 | | | | 0.05 | | |
| 3/4/2020 | 0.01 (J) | | 0.0026 (J) | | 0.03 (J) | 0.0047 (J) |
| 3/26/2020 | 0.013 (J) | | | 0.054 | | |
| 3/27/2020 | | 0.0012 (J) | | | | |
| 3/30/2020 | | | 0.0027 (J) | | | |
| 3/31/2020 | | | | | 0.0036 (J) | |
| 4/2/2020 | | | | | | 0.0068 (J) |
| 9/17/2020 | | <0.03 | | | 0.0032 (J) | |
| 9/18/2020 | | | | 0.046 | | 0.0084 (J) |
| 9/21/2020 | 0.013 (J) | | 0.0024 (J) | | | |
| 2/11/2021 | | 0.001 (J) | | | | |
| 2/12/2021 | 0.012 (J) | | | 0.045 | | |
| 2/16/2021 | | | 0.0028 (J) | | 0.0038 (J) | 0.0078 (J) |
| 3/12/2021 | | | | | | 0.009 (J) |
| 3/15/2021 | | 0.0011 (J) | | | | |
| 3/16/2021 | | | | 0.049 | | |
| 3/17/2021 | 0.012 (J) | | 0.0027 (J) | | 0.004 (J) | |
| 8/17/2021 | | 0.00091 (J) | | | 0.0036 (J) | 0.0079 (J) |
| 8/18/2021 | 0.014 (J) | | | | | |
| 8/19/2021 | | | 0.0027 (J) | 0.046 | | |
| 2/9/2022 | 0.0067 (J) | | | 0.048 | 0.0039 (J) | |
| 2/10/2022 | | 0.00099 (J) | 0.0029 (J) | | | 0.0086 (J) |
| 8/3/2022 | | | 0.0024 (J) | | | 0.0063 (J) |
| 8/4/2022 | 0.013 (J) | 0.00075 (J) | | 0.04 | 0.0033 (J) | |
| 1/26/2023 | 0.0038 (J) | <0.03 | 0.0025 (J) | 0.036 | 0.0031 (J) | |
| 1/27/2023 | | | | | | 0.0072 (J) |
| 8/10/2023 | 0.011 (J) | <0.03 | | 0.038 | | |
| 8/11/2023 | | | | | 0.0029 (J) | |
| 8/12/2023 | | | 0.003 (J) | | | 0.0072 (J) |

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|------------|------------|-------|-------|-------|
| 3/12/2019 | 0.011 (J) | 0.0024 (J) | | | |
| 3/13/2019 | | | <0.03 | <0.03 | <0.03 |
| 4/2/2019 | 0.0052 (J) | 0.0021 (J) | | | |
| 4/3/2019 | | | <0.03 | <0.03 | <0.03 |
| 9/24/2019 | | 0.0022 (J) | | | |
| 9/25/2019 | | | <0.03 | | |
| 9/26/2019 | 0.0055 (J) | | | <0.03 | <0.03 |
| 3/2/2020 | | 0.0025 (J) | <0.03 | | |
| 3/3/2020 | | | | <0.03 | <0.03 |
| 3/4/2020 | 0.015 (J) | | | | |
| 3/26/2020 | | | <0.03 | | |
| 3/27/2020 | 0.014 (J) | | | <0.03 | |
| 3/30/2020 | | 0.0023 (J) | | | <0.03 |
| 9/16/2020 | | 0.0021 (J) | | | |
| 9/17/2020 | | | <0.03 | | |
| 9/21/2020 | 0.0053 (J) | | | <0.03 | <0.03 |
| 2/10/2021 | 0.0092 (J) | | | | |
| 2/15/2021 | | 0.0024 (J) | | | <0.03 |
| 2/16/2021 | | | <0.03 | <0.03 | |
| 3/15/2021 | 0.013 (J) | 0.0022 (J) | | | <0.03 |
| 3/16/2021 | | | <0.03 | <0.03 | |
| 8/16/2021 | | 0.0021 (J) | | | |
| 8/17/2021 | | | <0.03 | <0.03 | <0.03 |
| 8/18/2021 | 0.0086 (J) | | | | |
| 2/8/2022 | | | | | <0.03 |
| 2/9/2022 | | | <0.03 | <0.03 | |
| 2/10/2022 | 0.014 (J) | 0.0023 (J) | | | |
| 8/3/2022 | | 0.0018 (J) | <0.03 | <0.03 | |
| 8/4/2022 | 0.0088 (J) | | | | <0.03 |
| 1/26/2023 | 0.011 (J) | 0.0019 (J) | <0.03 | <0.03 | <0.03 |
| 8/10/2023 | | 0.0019 (J) | <0.03 | <0.03 | <0.03 |
| 8/11/2023 | 0.016 (J) | | | | |

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|-----------|
| 5/19/2016 | <0.0002 | <0.0002 | <0.0002 | | | |
| 5/23/2016 | | | | | | <0.0002 |
| 7/11/2016 | <0.0002 | <0.0002 | | | | |
| 7/12/2016 | | | <0.0002 | | | <0.0002 |
| 8/30/2016 | 4E-05 (J) | 4E-05 (J) | <0.0002 | | | |
| 9/1/2016 | | | | | | <0.0002 |
| 10/19/2016 | <0.0002 | <0.0002 | <0.0002 | | | |
| 10/24/2016 | | | | | | <0.0002 |
| 12/6/2016 | <0.0002 | <0.0002 | <0.0002 | | | |
| 12/7/2016 | | | | | | <0.0002 |
| 1/24/2017 | <0.0002 | <0.0002 | <0.0002 | | | |
| 1/26/2017 | | | | | | 5E-05 (J) |
| 3/21/2017 | <0.0002 | <0.0002 | <0.0002 | | | |
| 3/22/2017 | | | | | | <0.0002 |
| 5/22/2017 | <0.0002 | <0.0002 | <0.0002 | | | |
| 5/24/2017 | | | | | | <0.0002 |
| 4/2/2018 | <0.0002 | <0.0002 | | | | |
| 4/3/2018 | | | <0.0002 | | | |
| 4/4/2018 | | | | | | <0.0002 |
| 3/12/2019 | <0.0002 | <0.0002 | <0.0002 | | | |
| 3/13/2019 | | | | | | <0.0002 |
| 3/2/2020 | <0.0002 | <0.0002 | <0.0002 | | | |
| 3/3/2020 | | | | | | <0.0002 |
| 9/16/2020 | | | | <0.0002 | <0.0002 | |
| 11/10/2020 | | | | <0.0002 | <0.0002 | |
| 12/15/2020 | | | | <0.0002 | <0.0002 | |
| 1/19/2021 | | | | <0.0002 | <0.0002 | |
| 2/8/2021 | <0.0002 | | | | | |
| 2/9/2021 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 2/15/2021 | | | | | | <0.0002 |
| 2/1/2022 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 2/9/2022 | | | | | | <0.0002 |
| 8/2/2022 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 8/3/2022 | | | | | | <0.0002 |
| 1/23/2023 | | | <0.0002 | | | |
| 1/24/2023 | <0.0002 | <0.0002 | | <0.0002 | <0.0002 | |
| 1/27/2023 | | | | | | <0.0002 |
| 8/8/2023 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 8/10/2023 | | | | | | <0.0002 |

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-----------|---------|-----------|---------|---------|-----------|
| 5/20/2016 | | | | <0.0002 | <0.0002 | |
| 5/23/2016 | <0.0002 | <0.0002 | <0.0002 | | | <0.0002 |
| 7/12/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 9/1/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 10/20/2016 | | | | <0.0002 | <0.0002 | <0.0002 |
| 10/24/2016 | <0.0002 | <0.0002 | <0.0002 | | | |
| 12/6/2016 | | | | <0.0002 | <0.0002 | <0.0002 |
| 12/7/2016 | <0.0002 | <0.0002 | <0.0002 | | | |
| 1/25/2017 | | | | <0.0002 | <0.0002 | |
| 1/26/2017 | 5E-05 (J) | <0.0002 | 4E-05 (J) | | | 4E-05 (J) |
| 3/21/2017 | | | | <0.0002 | <0.0002 | |
| 3/22/2017 | <0.0002 | <0.0002 | <0.0002 | | | <0.0002 |
| 5/23/2017 | | | | <0.0002 | <0.0002 | <0.0002 |
| 5/24/2017 | <0.0002 | <0.0002 | 5E-05 (J) | | | |
| 4/3/2018 | | | | <0.0002 | <0.0002 | <0.0002 |
| 4/4/2018 | <0.0002 | <0.0002 | <0.0002 | | | |
| 3/12/2019 | | | | | <0.0002 | |
| 3/13/2019 | <0.0002 | | <0.0002 | <0.0002 | | <0.0002 |
| 3/14/2019 | | <0.0002 | | | | |
| 3/3/2020 | <0.0002 | <0.0002 | | | <0.0002 | |
| 3/4/2020 | | | <0.0002 | <0.0002 | | <0.0002 |
| 2/10/2021 | | | | <0.0002 | | |
| 2/12/2021 | <0.0002 | <0.0002 | | | | |
| 2/16/2021 | | | | | <0.0002 | <0.0002 |
| 2/22/2021 | | | <0.0002 | | | |
| 2/9/2022 | <0.0002 | <0.0002 | | | | <0.0002 |
| 2/10/2022 | | | <0.0002 | <0.0002 | <0.0002 | |
| 8/3/2022 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 8/4/2022 | | | | | | <0.0002 |
| 8/11/2022 | | | | <0.0002 | | |
| 1/26/2023 | <0.0002 | <0.0002 | <0.0002 | | | <0.0002 |
| 1/27/2023 | | | | <0.0002 | | |
| 2/1/2023 | | | | | <0.0002 | |
| 8/10/2023 | <0.0002 | <0.0002 | | | | |
| 8/11/2023 | | | | | | <0.0002 |
| 8/12/2023 | | | <0.0002 | <0.0002 | <0.0002 | |

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|---------|---------|---------|-------------|---------|---------|
| 3/13/2019 | | <0.0002 | <0.0002 | | <0.0002 | <0.0002 |
| 3/14/2019 | <0.0002 | | | <0.0002 | | |
| 3/2/2020 | | <0.0002 | | | | |
| 3/3/2020 | | | | <0.0002 | | |
| 3/4/2020 | <0.0002 | | <0.0002 | | <0.0002 | <0.0002 |
| 2/11/2021 | | <0.0002 | | | | |
| 2/12/2021 | <0.0002 | | | <0.0002 | | |
| 2/16/2021 | | | <0.0002 | | <0.0002 | <0.0002 |
| 2/9/2022 | <0.0002 | | | <0.0002 | <0.0002 | |
| 2/10/2022 | | <0.0002 | <0.0002 | | | <0.0002 |
| 8/3/2022 | | | <0.0002 | | | <0.0002 |
| 8/4/2022 | <0.0002 | <0.0002 | | <0.0002 | <0.0002 | |
| 1/26/2023 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | |
| 1/27/2023 | | | | | | <0.0002 |
| 8/10/2023 | <0.0002 | <0.0002 | | 0.00013 (J) | | |
| 8/11/2023 | | | | | <0.0002 | |
| 8/12/2023 | | | <0.0002 | | | <0.0002 |

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|---------|-------------|---------|---------|---------|
| 3/12/2019 | <0.0002 | <0.0002 | | | |
| 3/13/2019 | | | <0.0002 | <0.0002 | <0.0002 |
| 3/2/2020 | | <0.0002 | <0.0002 | | |
| 3/3/2020 | | | | <0.0002 | <0.0002 |
| 3/4/2020 | <0.0002 | | | | |
| 2/10/2021 | <0.0002 | | | | |
| 2/15/2021 | | <0.0002 | | | <0.0002 |
| 2/16/2021 | | | <0.0002 | <0.0002 | |
| 2/8/2022 | | | | | <0.0002 |
| 2/9/2022 | | | <0.0002 | <0.0002 | |
| 2/10/2022 | <0.0002 | <0.0002 | | | |
| 8/3/2022 | | <0.0002 | <0.0002 | <0.0002 | |
| 8/4/2022 | <0.0002 | | | | <0.0002 |
| 1/26/2023 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 8/10/2023 | | 0.00017 (J) | <0.0002 | <0.0002 | <0.0002 |
| 8/11/2023 | <0.0002 | | | | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|------------|
| 5/19/2016 | <0.01 | <0.01 | <0.01 | | | |
| 5/23/2016 | | | | | | <0.01 |
| 7/11/2016 | <0.01 | <0.01 | | | | |
| 7/12/2016 | | | <0.01 | | | 0.0013 (J) |
| 8/30/2016 | <0.01 | <0.01 | <0.01 | | | |
| 9/1/2016 | | | | | | <0.01 |
| 10/19/2016 | <0.01 | <0.01 | <0.01 | | | |
| 10/24/2016 | | | | | | <0.01 |
| 12/6/2016 | <0.01 | <0.01 | <0.01 | | | |
| 12/7/2016 | | | | | | <0.01 |
| 1/24/2017 | <0.01 | <0.01 | <0.01 | | | |
| 1/26/2017 | | | | | | <0.01 |
| 3/21/2017 | <0.01 | <0.01 | <0.01 | | | |
| 3/22/2017 | | | | | | 0.0013 (J) |
| 5/22/2017 | <0.01 | <0.01 | <0.01 | | | |
| 5/24/2017 | | | | | | 0.0014 (J) |
| 4/2/2018 | <0.01 | <0.01 | | | | |
| 4/3/2018 | | | <0.01 | | | |
| 4/4/2018 | | | | | | <0.01 |
| 6/4/2018 | <0.01 | <0.01 | <0.01 | | | |
| 6/5/2018 | | | | | | <0.01 |
| 10/1/2018 | <0.01 | <0.01 | <0.01 | | | |
| 10/2/2018 | | | | | | <0.01 |
| 3/12/2019 | <0.01 | <0.01 | <0.01 | | | |
| 3/13/2019 | | | | | | <0.01 |
| 4/1/2019 | | | <0.01 | | | |
| 4/2/2019 | <0.01 | <0.01 | | | | |
| 4/3/2019 | | | | | | 0.0021 (J) |
| 9/23/2019 | <0.01 | <0.01 | <0.01 | | | |
| 9/27/2019 | | | | | | 0.0014 (J) |
| 3/2/2020 | <0.01 | <0.01 | <0.01 | | | |
| 3/3/2020 | | | | | | <0.01 |
| 3/25/2020 | <0.01 | <0.01 | <0.01 | | | |
| 4/1/2020 | | | | | | <0.01 |
| 6/16/2020 | <0.01 | | <0.01 | | | |
| 9/15/2020 | <0.01 | <0.01 | <0.01 | | | |
| 9/16/2020 | | | | 0.0044 (J) | 0.0019 (J) | 0.0014 (J) |
| 11/10/2020 | | | | 0.0072 (J) | 0.0018 (J) | |
| 12/15/2020 | | | | 0.0044 (J) | 0.0019 (J) | |
| 1/19/2021 | | | | 0.0038 (J) | 0.0035 (J) | |
| 2/8/2021 | <0.01 | | | | | |
| 2/9/2021 | | <0.01 | <0.01 | 0.0045 (J) | 0.0038 (J) | |
| 2/15/2021 | | | | | | <0.01 |
| 3/10/2021 | <0.01 | | | | 0.0019 (J) | |
| 3/11/2021 | | <0.01 | <0.01 | 0.0064 (J) | | |
| 3/12/2021 | | | | | | 0.0007 (J) |
| 8/11/2021 | <0.01 | | | 0.0034 (J) | | |
| 8/12/2021 | | <0.01 | <0.01 | | | |
| 8/13/2021 | | | | | 0.0051 (J) | |
| 8/17/2021 | | | | | | 0.0012 (J) |
| 2/1/2022 | <0.01 | <0.01 | <0.01 | 0.0036 (J) | 0.0055 (J) | |
| 2/9/2022 | | | | | | <0.01 |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|-------------|
| 8/2/2022 | <0.01 | <0.01 | <0.01 | 0.0042 (J) | 0.002 (J) | |
| 8/3/2022 | | | | | | 0.00079 (J) |
| 1/23/2023 | | | <0.01 | | | |
| 1/24/2023 | <0.01 | <0.01 | | 0.0027 (J) | 0.0026 (J) | |
| 1/27/2023 | | | | | | <0.01 |
| 8/8/2023 | <0.01 | <0.01 | <0.01 | 0.0019 (J) | 0.0013 (J) | |
| 8/10/2023 | | | | | | 0.0014 (J) |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|------------|------------|---------|--------|--------|--------|
| 5/20/2016 | | | | 0.028 | 0.446 | |
| 5/23/2016 | 0.0164 | 0.0413 (J) | 0.027 | | | 0.0187 |
| 7/12/2016 | 0.0251 | 0.0484 | 0.0316 | 0.0273 | 0.455 | 0.0229 |
| 9/1/2016 | 0.0259 | 0.0474 | 0.0336 | 0.0274 | 0.481 | 0.0239 |
| 10/20/2016 | | | | 0.036 | 0.472 | 0.477 |
| 10/24/2016 | 0.0293 | 0.047 | 0.0352 | | | |
| 12/6/2016 | | | | 0.0365 | 0.52 | 0.0236 |
| 12/7/2016 | 0.0209 | 0.0432 | 0.0383 | | | |
| 1/25/2017 | | | | 0.0317 | 0.478 | |
| 1/26/2017 | 0.0277 | 0.0484 | 0.041 | | | 0.0234 |
| 3/21/2017 | | | | 0.0346 | 0.547 | |
| 3/22/2017 | 0.011 | 0.0494 | 0.0426 | | | 0.0219 |
| 5/23/2017 | | | | 0.0336 | 0.482 | 0.0242 |
| 5/24/2017 | 0.0373 | 0.047 | 0.04 | | | |
| 4/3/2018 | | | | 0.032 | 0.44 | 0.025 |
| 4/4/2018 | 0.013 | 0.052 | 0.027 | | | |
| 6/5/2018 | 0.029 | | 0.027 | 0.036 | | |
| 6/6/2018 | | 0.054 | | | 0.49 | 0.027 |
| 10/2/2018 | | | | 0.039 | 0.47 | 0.028 |
| 10/3/2018 | 0.02 | 0.054 | | | | |
| 10/5/2018 | | | 0.033 | | | |
| 3/12/2019 | | | | | 0.5 | |
| 3/13/2019 | 0.012 | | 0.033 | 0.04 | | 0.028 |
| 3/14/2019 | | 0.046 | | | | |
| 4/2/2019 | | | | 0.041 | | |
| 4/3/2019 | 0.01 | 0.049 | | | 0.5 | 0.03 |
| 4/5/2019 | | | 0.03 | | | |
| 9/24/2019 | | | | | 0.54 | |
| 9/25/2019 | | | | 0.047 | | |
| 9/26/2019 | | | 0.026 | | | |
| 9/27/2019 | 0.016 | 0.052 | | | | 0.033 |
| 3/3/2020 | 0.011 | 0.045 | | | 0.44 | |
| 3/4/2020 | | | 0.03 | 0.045 | | 0.031 |
| 3/26/2020 | | 0.045 | | | | |
| 3/27/2020 | | | | 0.044 | 0.42 | |
| 3/30/2020 | | | 0.029 | | | |
| 3/31/2020 | 0.0074 (J) | | | | | 0.031 |
| 6/16/2020 | | | | | 0.45 | |
| 6/17/2020 | | | | 0.048 | | |
| 9/16/2020 | | | | 0.046 | 0.43 | |
| 9/17/2020 | | | | | | 0.03 |
| 9/18/2020 | 0.032 | 0.046 | | | | |
| 9/21/2020 | | | 0.032 | | | |
| 2/10/2021 | | | | 0.051 | | |
| 2/12/2021 | 0.023 | 0.048 | | | | |
| 2/16/2021 | | | | | 0.46 | 0.035 |
| 2/22/2021 | | | 0.036 | | | |
| 3/15/2021 | | | | 0.047 | 0.41 | |
| 3/16/2021 | 0.015 | 0.044 | | | | 0.035 |
| 3/17/2021 | | | 0.035 | | | |
| 8/16/2021 | | | | 0.045 | | |
| 8/17/2021 | | | | | | 0.035 |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|---------|---------|--------|--------|--------|
| 8/18/2021 | 0.038 | 0.045 | | | 0.48 | |
| 8/19/2021 | | | 0.032 | | | |
| 2/9/2022 | 0.03 | 0.042 | | | | 0.034 |
| 2/10/2022 | | | 0.033 | 0.045 | 0.34 | |
| 8/3/2022 | 0.027 | 0.047 | 0.035 | 0.038 | 0.29 | |
| 8/4/2022 | | | | | | 0.033 |
| 8/11/2022 | | | | 0.044 | | |
| 1/26/2023 | 0.022 | 0.048 | 0.023 | | | 0.021 |
| 1/27/2023 | | | | 0.039 | | |
| 2/1/2023 | | | | | 0.29 | |
| 8/10/2023 | 0.014 | 0.05 | | | | |
| 8/11/2023 | | | | | | 0.03 |
| 8/12/2023 | | | 0.016 | 0.033 | 0.34 | |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|------------|-------|-------|-------------|-------------|------------|------------|
| 3/13/2019 | | <0.01 | <0.01 | | <0.01 | <0.01 |
| 3/14/2019 | 0.057 | | | 0.0022 (J) | | |
| 4/2/2019 | | <0.01 | | | | |
| 4/3/2019 | 0.04 | | | <0.01 | 0.0083 (J) | |
| 4/4/2019 | | | | | | 0.0018 (J) |
| 4/8/2019 | | | 0.00027 (J) | | | |
| 9/25/2019 | | <0.01 | | | | |
| 9/26/2019 | | | <0.01 | | 0.017 | 0.0042 (J) |
| 9/27/2019 | 0.063 | | | <0.01 | | |
| 11/25/2019 | | | | | 0.02 | |
| 3/2/2020 | | <0.01 | | | | |
| 3/3/2020 | | | | <0.01 | | |
| 3/4/2020 | 0.032 | | <0.01 | | 0.0074 (J) | 0.0058 (J) |
| 3/26/2020 | 0.033 | | | <0.01 | | |
| 3/27/2020 | | <0.01 | | | | |
| 3/30/2020 | | | <0.01 | | | |
| 3/31/2020 | | | | | 0.0093 (J) | |
| 4/2/2020 | | | | | | 0.003 (J) |
| 9/17/2020 | | <0.01 | | | 0.014 | |
| 9/18/2020 | | | | 0.00094 (J) | | 0.0018 (J) |
| 9/21/2020 | 0.064 | | 0.00099 (J) | | | |
| 2/11/2021 | | <0.01 | | | | |
| 2/12/2021 | 0.046 | | | <0.01 | | |
| 2/16/2021 | | | 0.00096 (J) | | 0.022 | 0.0019 (J) |
| 3/12/2021 | | | | | | 0.0008 (J) |
| 3/15/2021 | | <0.01 | | | | |
| 3/16/2021 | | | | <0.01 | | |
| 3/17/2021 | 0.043 | | 0.001 (J) | | 0.023 | |
| 8/17/2021 | | <0.01 | | | 0.024 | 0.0016 (J) |
| 8/18/2021 | 0.032 | | | | | |
| 8/19/2021 | | | 0.00087 (J) | <0.01 | | |
| 2/9/2022 | 0.011 | | | <0.01 | 0.028 | |
| 2/10/2022 | | <0.01 | 0.0008 (J) | | | 0.0017 (J) |
| 8/3/2022 | | | 0.00095 (J) | | | 0.002 (J) |
| 8/4/2022 | 0.039 | <0.01 | | <0.01 | 0.028 | |
| 1/26/2023 | 0.012 | <0.01 | 0.0012 (J) | <0.01 | 0.028 | |
| 1/27/2023 | | | | | | 0.0014 (J) |
| 8/10/2023 | 0.033 | <0.01 | | <0.01 | | |
| 8/11/2023 | | | | | 0.014 | |
| 8/12/2023 | | | 0.0019 (J) | | | 0.0019 (J) |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|------------|------------|-------|------------|------------|
| 3/12/2019 | 0.013 | 0.0038 (J) | | | |
| 3/13/2019 | | | <0.01 | 0.0021 (J) | <0.01 |
| 4/2/2019 | 0.028 | 0.0028 (J) | | | |
| 4/3/2019 | | | <0.01 | 0.0021 (J) | <0.01 |
| 9/24/2019 | | 0.0021 (J) | | | |
| 9/25/2019 | | | <0.01 | | |
| 9/26/2019 | 0.017 | | | 0.0026 (J) | 0.0033 (J) |
| 3/2/2020 | | 0.0025 (J) | <0.01 | | |
| 3/3/2020 | | | | 0.0022 (J) | <0.01 |
| 3/4/2020 | 0.009 (J) | | | | |
| 3/26/2020 | | | <0.01 | | |
| 3/27/2020 | 0.0068 (J) | | | 0.0026 (J) | |
| 3/30/2020 | | 0.0029 (J) | | | <0.01 |
| 9/16/2020 | | 0.0021 (J) | | | |
| 9/17/2020 | | | <0.01 | | |
| 9/21/2020 | 0.018 | | | 0.0025 (J) | 0.0015 (J) |
| 2/10/2021 | 0.02 | | | | |
| 2/15/2021 | | 0.0029 (J) | | | 0.0015 (J) |
| 2/16/2021 | | | <0.01 | 0.0025 (J) | |
| 3/15/2021 | 0.013 | 0.0031 (J) | | | 0.0015 (J) |
| 3/16/2021 | | | <0.01 | 0.0023 (J) | |
| 8/16/2021 | | 0.0027 (J) | | | |
| 8/17/2021 | | | <0.01 | 0.0027 (J) | 0.003 (J) |
| 8/18/2021 | 0.022 | | | | |
| 2/8/2022 | | | | | 0.0012 (J) |
| 2/9/2022 | | | <0.01 | 0.0026 (J) | |
| 2/10/2022 | 0.0031 (J) | 0.0036 (J) | | | |
| 8/3/2022 | | 0.0032 (J) | <0.01 | 0.0028 (J) | |
| 8/4/2022 | 0.011 | | | | 0.0014 (J) |
| 1/26/2023 | 0.0025 (J) | 0.0029 (J) | <0.01 | 0.0029 (J) | <0.01 |
| 8/10/2023 | | 0.003 (J) | <0.01 | 0.0026 (J) | 0.0022 (J) |
| 8/11/2023 | 0.0011 (J) | | | | |

Time Series

Constituent: pH, Field (SU) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|---------|
| 5/19/2016 | 7.27 | 5.81 | 7.45 | | | |
| 5/23/2016 | | | | | | 6.83 |
| 7/11/2016 | 7.06 | 5.68 | | | | |
| 7/12/2016 | | | 7.32 | | | 6.58 |
| 8/30/2016 | 7.28 | 5.63 | 7.43 | | | |
| 9/1/2016 | | | | | | 6.54 |
| 10/19/2016 | 7.02 | 5.46 | 7.03 | | | |
| 10/24/2016 | | | | | | 6.59 |
| 12/6/2016 | 7.09 | 5.38 | 7.08 | | | |
| 12/7/2016 | | | | | | 6.56 |
| 1/24/2017 | 7.2 | 5.37 | 7.39 | | | |
| 1/26/2017 | | | | | | 6.83 |
| 3/21/2017 | 7.01 | 4.9 | 6.83 | | | |
| 3/22/2017 | | | | | | 6.66 |
| 5/22/2017 | 7.11 | 5.2 | 7.02 | | | |
| 5/24/2017 | | | | | | 6.67 |
| 10/3/2017 | 7.21 | 5.3 | 7.47 | | | 6.54 |
| 4/2/2018 | 7.1 | 5.4 | | | | |
| 4/3/2018 | | | 7.38 | | | |
| 4/4/2018 | | | | | | 6.61 |
| 6/4/2018 | 7.06 | 5.27 | 7.38 | | | |
| 6/5/2018 | | | | | | 6.65 |
| 10/1/2018 | 7.09 | 5.31 | 7.13 | | | |
| 10/2/2018 | | | | | | 6.55 |
| 3/12/2019 | 7.03 | 5.42 | 7.29 | | | |
| 3/13/2019 | | | | | | 6.7 |
| 4/1/2019 | | | 7.16 | | | |
| 4/2/2019 | 6.86 | 5.41 | | | | |
| 4/3/2019 | | | | | | 6.55 |
| 9/23/2019 | 7.02 | 5.33 | 7.3 | | | |
| 9/27/2019 | | | | | | 6.64 |
| 3/2/2020 | 7.1 | 5.43 | 7.12 | | | |
| 3/3/2020 | | | | | | 6.67 |
| 3/25/2020 | 6.95 | 5.36 | 7.4 | | | |
| 4/1/2020 | | | | | | 6.84 |
| 6/16/2020 | 6.97 (D) | | 7.31 (D) | | | |
| 9/15/2020 | 7.15 | 5.22 | 7.29 | | | |
| 9/16/2020 | | | | 7.52 | 7.83 | 6.66 |
| 11/10/2020 | | | | 7.27 | 7.84 | |
| 12/15/2020 | | | | 7.39 | 7.87 | |
| 1/19/2021 | | | | 7.39 | 7.86 | |
| 2/8/2021 | 7.11 | | | | | |
| 2/9/2021 | | 5.42 | 7.23 | 7.44 | 7.84 | |
| 2/15/2021 | | | | | | 6.83 |
| 3/10/2021 | 6.95 | | | | 7.92 | |
| 3/11/2021 | | 5.8 | 7.33 | 7.46 | | |
| 3/12/2021 | | | | | | 6.76 |
| 8/11/2021 | 6.98 | | | 7.4 | | |
| 8/12/2021 | | 5.05 | 7.31 | | | |
| 8/13/2021 | | | | | 7.77 | |
| 8/17/2021 | | | | | | 6.75 |
| 2/1/2022 | 7.19 | 5.24 | 7.45 | 7.52 | 8.25 | |

Time Series

Constituent: pH, Field (SU) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|---------|
| 2/9/2022 | | | | | | 7 |
| 8/3/2022 | | | | | | 6.73 |
| 1/23/2023 | | | 7.32 | | | |
| 1/24/2023 | 6.76 | 5.22 | | 7.56 | 8.22 | |
| 1/27/2023 | | | | | | 6.89 |
| 8/8/2023 | 7.05 | 5.01 | 7.42 | 7.39 | 8.2 | |
| 8/10/2023 | | | | | | 6.81 |

Time Series

Constituent: pH, Field (SU) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|---------|---------|---------|---------|----------|--------|
| 5/20/2016 | | | | 7.14 | 6.99 | |
| 5/23/2016 | 6.22 | 7.15 | 7.14 | | | 7.23 |
| 7/12/2016 | 6.04 | 6.87 | 7.04 | 7.13 | 6.88 | 6.87 |
| 9/1/2016 | 6.26 | 7.2 | 7.24 | 7.29 | 6.73 | 7.15 |
| 10/20/2016 | | | | 7.1 | 6.9 | 7.05 |
| 10/24/2016 | 6.46 | 7.1 | 6.9 | | | |
| 12/6/2016 | | | | 7.15 | 6.98 | 7.15 |
| 12/7/2016 | 6.29 | 6.92 | 6.91 | | | |
| 1/25/2017 | | | | 7.11 | 7.04 | |
| 1/26/2017 | 6.46 | 7.05 | 7.08 | | | 6.99 |
| 3/21/2017 | | | | 7.12 | 6.87 | |
| 3/22/2017 | 5.81 | 7.08 | 7.13 | | | 7.03 |
| 5/23/2017 | | | | 7.08 | 6.87 | 7.05 |
| 5/24/2017 | 6.51 | 7.11 | 7.15 | | | |
| 10/3/2017 | 6.25 | 7.01 | 7.32 | 7.21 | 6.72 | 7.07 |
| 4/3/2018 | | | | 7.14 | 6.87 | 6.99 |
| 4/4/2018 | 5.86 | 7.12 | 7.27 | | | |
| 6/5/2018 | 6.27 | | 7.2 | 7.13 | | |
| 6/6/2018 | | 7.12 | | | 6.9 | 7.02 |
| 10/2/2018 | | | | 7.12 | 6.9 | 7.05 |
| 10/3/2018 | 5.97 | 7.08 | | | | |
| 10/5/2018 | | | 7.24 | | | |
| 3/12/2019 | | | | | 6.91 | |
| 3/13/2019 | 5.92 | | 7.24 | 7.27 | | 7.06 |
| 3/14/2019 | | 7.09 | | | | |
| 4/2/2019 | | | | 7.27 | | |
| 4/3/2019 | 5.69 | 6.96 | | | 6.85 | 6.88 |
| 4/5/2019 | | | 7.24 | | | |
| 9/24/2019 | | | | | 6.95 | |
| 9/25/2019 | | | | 7.11 | | |
| 9/26/2019 | | | 6.94 | | | |
| 9/27/2019 | 5.75 | 7.07 | | | | 7.01 |
| 3/3/2020 | 5.95 | 6.95 | | | 7.06 | |
| 3/4/2020 | | | 7.16 | 7.17 | | 6.97 |
| 3/26/2020 | | 6.99 | | | | |
| 3/27/2020 | | | | 7.05 | 6.95 | |
| 3/30/2020 | | | 6.91 | | | |
| 3/31/2020 | 5.7 | | | | | 7.07 |
| 6/16/2020 | | | | | 6.97 (D) | |
| 6/17/2020 | | | | 7.2 (D) | | |
| 9/16/2020 | | | | 7.3 | 6.92 | |
| 9/17/2020 | | | | | | 6.99 |
| 9/18/2020 | 6.42 | 7.15 | | | | |
| 9/21/2020 | | | 7.34 | | | |
| 2/10/2021 | | | | 7.29 | | |
| 2/12/2021 | 7.27 | 6.23 | | | | |
| 2/16/2021 | | | | | 7.16 | 7.26 |
| 2/22/2021 | | | 7.27 | | | |
| 3/15/2021 | | | | 7.19 | 7.09 | |
| 3/16/2021 | 5.95 | 7.15 | | | | 7.1 |
| 3/17/2021 | | | 7.33 | | | |
| 8/16/2021 | | | | 7.12 | | |

Time Series

Constituent: pH, Field (SU) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|---------|---------|--------|--------|--------|
| 8/17/2021 | | | | | | 7.1 |
| 8/18/2021 | 6.1 | 6.89 | | | 7.02 | |
| 8/19/2021 | | | 7.38 | | | |
| 2/9/2022 | 6.55 | 7.23 | | | | 7.3 |
| 2/10/2022 | | | 7.54 | 7.22 | 6.99 | |
| 8/3/2022 | 6.23 | 7.13 | 7.09 | 6.93 | 6.84 | |
| 8/4/2022 | | | | | | 7.03 |
| 8/11/2022 | | | | 7.07 | | |
| 1/26/2023 | 6.23 | 7.1 | 6.9 | | | 7.07 |
| 1/27/2023 | | | | 7.25 | | |
| 2/1/2023 | | | | | 6.6 | |
| 8/10/2023 | 5.9 | 7.08 | | | | |
| 8/11/2023 | | | | | | 7.09 |
| 8/12/2023 | | | 6.89 | 7.36 | 6.84 | |

Time Series

Constituent: pH, Field (SU) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------|-------|--------|--------|--------|--------|
| 3/13/2019 | | 6.75 | 7.58 | | 7.4 | 7.78 |
| 3/14/2019 | 6.48 | | | 7.67 | | |
| 4/2/2019 | | 6.7 | | | | |
| 4/3/2019 | 6.14 | | | 7.56 | 7.25 | |
| 4/4/2019 | | | | | | 7.63 |
| 4/8/2019 | | | 7.47 | | | |
| 9/25/2019 | | 6.75 | | | | |
| 9/26/2019 | | | 7.5 | | 7.16 | 7.46 |
| 9/27/2019 | 6.33 | | | 7.57 | | |
| 3/2/2020 | | 6.98 | | | | |
| 3/3/2020 | | | | 7.59 | | |
| 3/4/2020 | 6.29 | | 7.47 | | 7.14 | 8.33 |
| 3/26/2020 | 6.28 | | | 7.57 | | |
| 3/27/2020 | | 6.75 | | | | |
| 3/30/2020 | | | 7.49 | | | |
| 3/31/2020 | | | | | 7.2 | |
| 4/2/2020 | | | | | | 8.11 |
| 9/17/2020 | | 6.78 | | | 7.08 | |
| 9/18/2020 | | | | 7.64 | | 7.51 |
| 9/21/2020 | 6.41 | | 7.65 | | | |
| 2/11/2021 | | 6.93 | | | | |
| 2/12/2021 | 6.36 | | | 7.77 | | |
| 2/16/2021 | | | 7.69 | | 7.27 | 7.96 |
| 3/12/2021 | | | | | | 7.88 |
| 3/15/2021 | | 6.97 | | | | |
| 3/16/2021 | | | | 7.76 | | |
| 3/17/2021 | 6.34 | | 7.66 | | 7.14 | |
| 8/17/2021 | | 7.05 | | | 7.14 | 7.75 |
| 8/18/2021 | 6.28 | | | | | |
| 8/19/2021 | | | 7.61 | 7.69 | | |
| 2/9/2022 | 6.28 | | | 7.82 | 7.32 | |
| 2/10/2022 | | 7.19 | 7.82 | | | 7.96 |
| 8/3/2022 | | | 7.59 | | | 7.4 |
| 8/4/2022 | 6.32 | 6.96 | | 7.66 | 7.08 | |
| 1/26/2023 | 6.13 | 6.95 | 7.6 | 7.74 | 7.14 | |
| 1/27/2023 | | | | | | 7.8 |
| 8/10/2023 | 6.37 | 6.86 | | 7.73 | | |
| 8/11/2023 | | | | | 7.2 | |
| 8/12/2023 | | | 7.61 | | | 7.8 |

Time Series

Constituent: pH, Field (SU) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|--------|-------|------|------|------|
| 3/12/2019 | 7.46 | 7.2 | | | |
| 3/13/2019 | | | 6.16 | 6.86 | 6.37 |
| 4/2/2019 | 7.4 | 6.91 | | | |
| 4/3/2019 | | | 5.96 | 6.77 | 6.19 |
| 9/24/2019 | | 6.86 | | | |
| 9/25/2019 | | | 6.37 | | |
| 9/26/2019 | 7.4 | | | 6.76 | 6.5 |
| 3/2/2020 | | 7.13 | 6.12 | | |
| 3/3/2020 | | | | 6.78 | 6.1 |
| 3/4/2020 | 7.55 | | | | |
| 3/26/2020 | | | 6.14 | | |
| 3/27/2020 | 7.42 | | | 6.82 | |
| 3/30/2020 | | 7.07 | | | 6.06 |
| 9/16/2020 | | 6.88 | | | |
| 9/17/2020 | | | 6.48 | | |
| 9/21/2020 | 7.46 | | | 6.88 | 6.5 |
| 2/10/2021 | 7.54 | | | | |
| 2/15/2021 | | 7.09 | | | 6.77 |
| 2/16/2021 | | | 5.95 | 7 | |
| 3/15/2021 | 7.61 | 7.05 | | | 6.66 |
| 3/16/2021 | | | 5.78 | 6.96 | |
| 8/16/2021 | | 7.08 | | | |
| 8/17/2021 | | | 5.99 | 6.86 | 6.88 |
| 8/18/2021 | 7.16 | | | | |
| 2/8/2022 | | | | | 6.73 |
| 2/9/2022 | | | 6.13 | 7.01 | |
| 2/10/2022 | 7.59 | 7.27 | | | |
| 8/3/2022 | | 6.87 | 5.96 | 6.41 | |
| 8/4/2022 | 7.38 | | | | 6.47 |
| 1/26/2023 | 7.67 | 7.22 | 6.07 | 6.9 | 6.23 |
| 8/10/2023 | | 7.06 | 6.29 | 6.85 | 6.85 |
| 8/11/2023 | 7.5 | | | | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|------------|
| 5/19/2016 | <0.005 | <0.005 | <0.005 | | | |
| 5/23/2016 | | | | | | <0.005 |
| 7/11/2016 | <0.005 | <0.005 | | | | |
| 7/12/2016 | | | <0.005 | | | <0.005 |
| 8/30/2016 | <0.005 | <0.005 | <0.005 | | | |
| 9/1/2016 | | | | | | <0.005 |
| 10/19/2016 | <0.005 | <0.005 | <0.005 | | | |
| 10/24/2016 | | | | | | <0.005 |
| 12/6/2016 | <0.005 | <0.005 | <0.005 | | | |
| 12/7/2016 | | | | | | <0.005 |
| 1/24/2017 | <0.005 | <0.005 | <0.005 | | | |
| 1/26/2017 | | | | | | 0.0041 (J) |
| 3/21/2017 | <0.005 | <0.005 | <0.005 | | | |
| 3/22/2017 | | | | | | <0.005 |
| 5/22/2017 | <0.005 | <0.005 | <0.005 | | | |
| 5/24/2017 | | | | | | <0.005 |
| 4/2/2018 | <0.005 | <0.005 | | | | |
| 4/3/2018 | | | <0.005 | | | |
| 4/4/2018 | | | | | | <0.005 |
| 6/4/2018 | <0.005 | <0.005 | <0.005 | | | |
| 6/5/2018 | | | | | | <0.005 |
| 10/1/2018 | <0.005 | <0.005 | <0.005 | | | |
| 10/2/2018 | | | | | | 0.0023 (J) |
| 3/12/2019 | <0.005 | <0.005 | <0.005 | | | |
| 3/13/2019 | | | | | | 0.0015 (J) |
| 4/1/2019 | | | <0.005 | | | |
| 4/2/2019 | <0.005 | <0.005 | | | | |
| 4/3/2019 | | | | | | <0.005 |
| 9/23/2019 | <0.005 | <0.005 | <0.005 | | | |
| 9/27/2019 | | | | | | <0.005 |
| 3/2/2020 | <0.005 | <0.005 | <0.005 | | | |
| 3/3/2020 | | | | | | <0.005 |
| 3/25/2020 | <0.005 | <0.005 | <0.005 | | | |
| 4/1/2020 | | | | | | 0.002 (J) |
| 9/15/2020 | <0.005 | <0.005 | <0.005 | | | |
| 9/16/2020 | | | | <0.005 | <0.005 | <0.005 |
| 11/10/2020 | | | | <0.005 | <0.005 | |
| 12/15/2020 | | | | <0.005 | <0.005 | |
| 1/19/2021 | | | | <0.005 | <0.005 | |
| 2/8/2021 | <0.005 | | | | | |
| 2/9/2021 | | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/15/2021 | | | | | | 0.0028 (J) |
| 3/10/2021 | 0.0047 (J) | | | | <0.005 | |
| 3/11/2021 | | <0.005 | <0.005 | <0.005 | | |
| 3/12/2021 | | | | | | <0.005 |
| 8/11/2021 | <0.005 | | | <0.005 | | |
| 8/12/2021 | | <0.005 | <0.005 | | | |
| 8/13/2021 | | | | | <0.005 | |
| 8/17/2021 | | | | | | <0.005 |
| 2/1/2022 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 2/9/2022 | | | | | | 0.0031 (J) |
| 8/2/2022 | <0.005 | 0.0014 (J) | <0.005 | <0.005 | <0.005 | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|------------|
| 8/3/2022 | | | | | | 0.0017 (J) |
| 1/23/2023 | | | <0.005 | | | |
| 1/24/2023 | <0.005 | <0.005 | | <0.005 | <0.005 | |
| 1/27/2023 | | | | | | 0.0035 (J) |
| 8/8/2023 | <0.005 | 0.0019 (J) | <0.005 | <0.005 | <0.005 | |
| 8/10/2023 | | | | | | <0.005 |

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|------------|------------|-------------|--------|------------|------------|
| 5/20/2016 | | | | <0.005 | <0.005 | |
| 5/23/2016 | 0.0106 | <0.005 | <0.005 | | | <0.005 |
| 7/12/2016 | 0.0057 (J) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 9/1/2016 | 0.0057 (J) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 10/20/2016 | | | | <0.005 | <0.005 | <0.005 |
| 10/24/2016 | 0.0021 (J) | <0.005 | <0.005 | | | |
| 12/6/2016 | | | | <0.005 | 0.0024 (J) | 0.0037 (J) |
| 12/7/2016 | 0.0015 (J) | 0.0011 (J) | <0.005 | | | |
| 1/25/2017 | | | | <0.005 | <0.005 | |
| 1/26/2017 | 0.0062 (J) | <0.005 | <0.005 | | | <0.005 |
| 3/21/2017 | | | | <0.005 | <0.005 | |
| 3/22/2017 | 0.0263 | <0.005 | <0.005 | | | <0.005 |
| 5/23/2017 | | | | <0.005 | <0.005 | <0.005 |
| 5/24/2017 | 0.0038 (J) | <0.005 | <0.005 | | | |
| 4/3/2018 | | | | <0.005 | <0.005 | <0.005 |
| 4/4/2018 | 0.021 | <0.005 | <0.005 | | | |
| 6/5/2018 | 0.0062 (J) | | <0.005 | <0.005 | | |
| 6/6/2018 | | <0.005 | | | <0.005 | <0.005 |
| 10/2/2018 | | | | <0.005 | <0.005 | <0.005 |
| 10/3/2018 | 0.009 (J) | <0.005 | | | | |
| 10/5/2018 | | | <0.005 | | | |
| 3/12/2019 | | | | | <0.005 | |
| 3/13/2019 | 0.023 | | <0.005 | <0.005 | | <0.005 |
| 3/14/2019 | | <0.005 | | | | |
| 4/2/2019 | | | | <0.005 | | |
| 4/3/2019 | 0.016 | <0.005 | | | <0.005 | <0.005 |
| 4/5/2019 | | | 0.00018 (J) | | | |
| 9/24/2019 | | | | | <0.005 | |
| 9/25/2019 | | | | <0.005 | | |
| 9/26/2019 | | | <0.005 | | | |
| 9/27/2019 | 0.013 | <0.005 | | | | <0.005 |
| 3/3/2020 | 0.016 | <0.005 | | | <0.005 | |
| 3/4/2020 | | | <0.005 | <0.005 | | <0.005 |
| 3/26/2020 | | <0.005 | | | | |
| 3/27/2020 | | | | <0.005 | <0.005 | |
| 3/30/2020 | | | <0.005 | | | |
| 3/31/2020 | 0.019 | | | | | <0.005 |
| 9/16/2020 | | | | <0.005 | <0.005 | |
| 9/17/2020 | | | | | | <0.005 |
| 9/18/2020 | 0.0042 (J) | <0.005 | | | | |
| 9/21/2020 | | | 0.0016 (J) | | | |
| 2/10/2021 | | | | <0.005 | | |
| 2/12/2021 | 0.0079 (J) | <0.005 | | | | |
| 2/16/2021 | | | | | <0.005 | <0.005 |
| 2/22/2021 | | | <0.005 | | | |
| 3/15/2021 | | | | <0.005 | <0.005 | |
| 3/16/2021 | 0.015 | <0.005 | | | | <0.005 |
| 3/17/2021 | | | <0.005 | | | |
| 8/16/2021 | | | | <0.005 | | |
| 8/17/2021 | | | | | | <0.005 |
| 8/18/2021 | 0.0033 (J) | <0.005 | | | <0.005 | |
| 8/19/2021 | | | <0.005 | | | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|------------|---------|---------|--------|--------|--------|
| 2/9/2022 | 0.0035 (J) | <0.005 | | | | <0.005 |
| 2/10/2022 | | | <0.005 | <0.005 | <0.005 | |
| 8/3/2022 | 0.0057 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 8/4/2022 | | | | | | <0.005 |
| 8/11/2022 | | | | <0.005 | | |
| 1/26/2023 | 0.01 | <0.005 | <0.005 | | | <0.005 |
| 1/27/2023 | | | | <0.005 | | |
| 2/1/2023 | | | | | <0.005 | |
| 8/10/2023 | 0.0089 | <0.005 | | | | |
| 8/11/2023 | | | | | | <0.005 |
| 8/12/2023 | | | <0.005 | <0.005 | <0.005 | |

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|------------|--------|--------|--------|--------|-------------|
| 3/13/2019 | | <0.005 | <0.005 | | <0.005 | <0.005 |
| 3/14/2019 | <0.005 | | | <0.005 | | |
| 4/2/2019 | | <0.005 | | | | |
| 4/3/2019 | 0.007 (J) | | | <0.005 | <0.005 | |
| 4/4/2019 | | | | | | 0.00012 (J) |
| 4/8/2019 | | | <0.005 | | | |
| 9/25/2019 | | <0.005 | | | | |
| 9/26/2019 | | | <0.005 | | <0.005 | <0.005 |
| 9/27/2019 | 0.0013 (J) | | | <0.005 | | |
| 3/2/2020 | | <0.005 | | | | |
| 3/3/2020 | | | | <0.005 | | |
| 3/4/2020 | 0.0044 (J) | | <0.005 | | <0.005 | <0.005 |
| 3/26/2020 | 0.0053 (J) | | | <0.005 | | |
| 3/27/2020 | | <0.005 | | | | |
| 3/30/2020 | | | <0.005 | | | |
| 3/31/2020 | | | | | <0.005 | |
| 4/2/2020 | | | | | | <0.005 |
| 9/17/2020 | | <0.005 | | | <0.005 | |
| 9/18/2020 | | | | <0.005 | | <0.005 |
| 9/21/2020 | 0.0033 (J) | | <0.005 | | | |
| 2/11/2021 | | <0.005 | | | | |
| 2/12/2021 | 0.0021 (J) | | | <0.005 | | |
| 2/16/2021 | | | <0.005 | | <0.005 | <0.005 |
| 3/12/2021 | | | | | | <0.005 |
| 3/15/2021 | | <0.005 | | | | |
| 3/16/2021 | | | | <0.005 | | |
| 3/17/2021 | <0.005 | | <0.005 | | <0.005 | |
| 8/17/2021 | | <0.005 | | | <0.005 | <0.005 |
| 8/18/2021 | 0.0026 (J) | | | | | |
| 8/19/2021 | | | <0.005 | <0.005 | | |
| 2/9/2022 | 0.0036 (J) | | | <0.005 | <0.005 | |
| 2/10/2022 | | <0.005 | <0.005 | | | <0.005 |
| 8/3/2022 | | | <0.005 | | | <0.005 |
| 8/4/2022 | 0.0022 (J) | <0.005 | | <0.005 | <0.005 | |
| 1/26/2023 | 0.0056 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 1/27/2023 | | | | | | <0.005 |
| 8/10/2023 | 0.0038 (J) | <0.005 | | <0.005 | | |
| 8/11/2023 | | | | | <0.005 | |
| 8/12/2023 | | | <0.005 | | | <0.005 |

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|--------|--------|------------|--------|------------|
| 3/12/2019 | <0.005 | <0.005 | | | |
| 3/13/2019 | | | 0.0033 (J) | <0.005 | 0.0016 (J) |
| 4/2/2019 | <0.005 | <0.005 | | | |
| 4/3/2019 | | | 0.0027 (J) | <0.005 | <0.005 |
| 9/24/2019 | | <0.005 | | | |
| 9/25/2019 | | | 0.0021 (J) | | |
| 9/26/2019 | <0.005 | | | <0.005 | 0.0014 (J) |
| 3/2/2020 | | <0.005 | 0.0041 (J) | | |
| 3/3/2020 | | | | <0.005 | <0.005 |
| 3/4/2020 | <0.005 | | | | |
| 3/26/2020 | | | 0.0039 (J) | | |
| 3/27/2020 | <0.005 | | | <0.005 | |
| 3/30/2020 | | <0.005 | | | 0.0014 (J) |
| 9/16/2020 | | <0.005 | | | |
| 9/17/2020 | | | 0.0028 (J) | | |
| 9/21/2020 | <0.005 | | | <0.005 | 0.0026 (J) |
| 2/10/2021 | <0.005 | | | | |
| 2/15/2021 | | <0.005 | | | <0.005 |
| 2/16/2021 | | | 0.0035 (J) | <0.005 | |
| 3/15/2021 | <0.005 | <0.005 | | | 0.0021 (J) |
| 3/16/2021 | | | 0.0026 (J) | <0.005 | |
| 8/16/2021 | | <0.005 | | | |
| 8/17/2021 | | | 0.0017 (J) | <0.005 | <0.005 |
| 8/18/2021 | <0.005 | | | | |
| 2/8/2022 | | | | | 0.0015 (J) |
| 2/9/2022 | | | 0.0027 (J) | <0.005 | |
| 2/10/2022 | <0.005 | <0.005 | | | |
| 8/3/2022 | | <0.005 | 0.0032 (J) | <0.005 | |
| 8/4/2022 | <0.005 | | | | <0.005 |
| 1/26/2023 | <0.005 | <0.005 | 0.0045 (J) | <0.005 | <0.005 |
| 8/10/2023 | | <0.005 | 0.002 (J) | <0.005 | <0.005 |
| 8/11/2023 | <0.005 | | | | |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|---------|
| 5/19/2016 | 66.9 | 48.6 | 42.3 | | | |
| 5/23/2016 | | | | | | 175 |
| 7/11/2016 | 41 | 45 | | | | |
| 7/12/2016 | | | 44 | | | 190 |
| 8/30/2016 | 36 | 42 | 40 | | | |
| 9/1/2016 | | | | | | 190 |
| 10/19/2016 | 46 | 44 | 43 | | | |
| 10/24/2016 | | | | | | 190 |
| 12/6/2016 | 59 | 44 | 43 | | | |
| 12/7/2016 | | | | | | 200 |
| 1/24/2017 | 46 | 46 | 48 | | | |
| 1/26/2017 | | | | | | 90 |
| 3/21/2017 | 63 | 46 | 45 | | | |
| 3/22/2017 | | | | | | 170 |
| 5/22/2017 | 77 | 48 | 46 | | | |
| 5/24/2017 | | | | | | 190 |
| 10/3/2017 | 42 | 47 | 48 | | | 200 |
| 6/4/2018 | 71.8 | 47.8 | 46.6 | | | |
| 6/5/2018 | | | | | | 205 |
| 10/1/2018 | 49.1 | 48.1 | 48.6 | | | |
| 10/2/2018 | | | | | | 178 |
| 4/1/2019 | | | 50.4 | | | |
| 4/2/2019 | 84.3 | 48.7 | | | | |
| 4/3/2019 | | | | | | 159 |
| 9/23/2019 | 70.2 | 47.2 | 43.9 | | | |
| 9/27/2019 | | | | | | 181 |
| 3/25/2020 | 85.9 | 46.3 | 50.5 | | | |
| 4/1/2020 | | | | | | 59 |
| 6/16/2020 | 88.2 | | 49.5 | | | |
| 9/15/2020 | 47.3 | 51.5 | 44.7 | | | |
| 9/16/2020 | | | | 43 | 6.9 | 169 |
| 11/10/2020 | | | | 39 | 6.3 | |
| 12/15/2020 | | | | 38.8 | 6.7 | |
| 1/19/2021 | | | | 37.3 | 7.4 | |
| 3/10/2021 | 49.6 | | | | <1 | |
| 3/11/2021 | | 52.9 | 50.4 | 38.6 | | |
| 3/12/2021 | | | | | | 120 |
| 8/11/2021 | 48.9 | | | 30.5 | | |
| 8/12/2021 | | 47.4 | 38.6 | | | |
| 8/13/2021 | | | | | 56.1 | |
| 8/17/2021 | | | | | | 156 |
| 2/1/2022 | 43.7 | 67.1 | 46 | 37.5 | 56.3 | |
| 2/9/2022 | | | | | | 49.2 |
| 8/2/2022 | 58.1 | 86.9 | 43.5 | 37 | 13.2 | |
| 8/3/2022 | | | | | | 119 |
| 1/23/2023 | | | 39.5 | | | |
| 1/24/2023 | 48.3 | 79.7 | | 34.7 | 10.1 | |
| 1/27/2023 | | | | | | 37.3 |
| 8/8/2023 | 67.7 | 89.9 | 35 | 25.6 | 1.3 | |
| 8/10/2023 | | | | | | 128 |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|---------|---------|---------|--------|--------|--------|
| 5/20/2016 | | | | 96 | 219 | |
| 5/23/2016 | 260 | 288 | 215 | | | 207 |
| 7/12/2016 | 390 | 320 | 210 | 100 | 230 | 230 |
| 9/1/2016 | 240 | 300 | 190 | 100 | 230 | 230 |
| 10/20/2016 | | | | 110 | 240 | 240 |
| 10/24/2016 | 370 | 270 | 180 | | | |
| 12/6/2016 | | | | 110 | 250 | 240 |
| 12/7/2016 | 260 | 280 | 120 | | | |
| 1/25/2017 | | | | 110 | 260 | |
| 1/26/2017 | 230 | 260 | 83 | | | 270 |
| 3/21/2017 | | | | 110 | 240 | |
| 3/22/2017 | 330 | 220 | 100 | | | 240 |
| 5/23/2017 | | | | 110 | 270 | 240 |
| 5/24/2017 | 230 | 210 | 110 | | | |
| 10/3/2017 | 230 | 190 | 67 | 120 | 230 | 240 |
| 6/5/2018 | 204 | | 187 | 117 | | |
| 6/6/2018 | | 162 | | | 190 | 214 |
| 10/2/2018 | | | | 120 | 193 | 218 |
| 10/3/2018 | 233 | 191 | | | | |
| 10/5/2018 | | | 78.3 | | | |
| 4/2/2019 | | | | 127 | | |
| 4/3/2019 | 298 | 176 | | | 194 | 214 |
| 4/5/2019 | | | 105 | | | |
| 9/24/2019 | | | | | 133 | |
| 9/25/2019 | | | | 109 | | |
| 9/26/2019 | | | 444 | | | |
| 9/27/2019 | <10 | 198 | | | | 214 |
| 3/26/2020 | | 182 | | | | |
| 3/27/2020 | | | | 109 | 173 | |
| 3/30/2020 | | | 393 | | | |
| 3/31/2020 | 283 | | | | | 185 |
| 6/16/2020 | | | | | 157 | |
| 6/17/2020 | | | | 102 | | |
| 9/16/2020 | | | | 109 | 194 | |
| 9/17/2020 | | | | | | 209 |
| 9/18/2020 | 272 | 266 | | | | |
| 9/21/2020 | | | 359 | | | |
| 3/15/2021 | | | | 107 | 272 | |
| 3/16/2021 | 291 | 248 | | | | 211 |
| 3/17/2021 | | | 384 | | | |
| 8/16/2021 | | | | 98.1 | | |
| 8/17/2021 | | | | | | 207 |
| 8/18/2021 | 237 | 226 | | | 245 | |
| 8/19/2021 | | | 339 | | | |
| 2/9/2022 | 276 | 252 | | | | 224 |
| 2/10/2022 | | | 371 | 97.5 | 224 | |
| 8/3/2022 | 254 | 236 | 451 | 105 | 241 | |
| 8/4/2022 | | | | | | 243 |
| 8/11/2022 | | | | 121 | | |
| 1/26/2023 | 209 | 228 | 495 | | | 217 |
| 1/27/2023 | | | | 119 | | |
| 2/1/2023 | | | | | 179 | |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|---------|---------|--------|--------|--------|
| 8/10/2023 | 190 | 209 | | | | |
| 8/11/2023 | | | | | | 197 |
| 8/12/2023 | | | 347 | 84.2 | 170 | |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------|-------|--------|----------|--------|--------|
| 4/2/2019 | | 122 | | | | |
| 4/3/2019 | 105 | | | 53 | 131 | |
| 4/4/2019 | | | | | | 11.8 |
| 4/8/2019 | | | 97.3 | | | |
| 9/25/2019 | | 112 | | | | |
| 9/26/2019 | | | 91 | | 189 | 15.6 |
| 9/27/2019 | 170 | | | 48 | | |
| 3/26/2020 | 310 | | | 32.3 | | |
| 3/27/2020 | | 114 | | | | |
| 3/30/2020 | | | 84.9 | | | |
| 3/31/2020 | | | | | 129 | |
| 4/2/2020 | | | | | | 13.3 |
| 9/17/2020 | | 110 | | | 174 | |
| 9/18/2020 | | | | 27.4 | | 7.5 |
| 9/21/2020 | 305 | | 114 | | | |
| 3/12/2021 | | | | | | 7.4 |
| 3/15/2021 | | 109 | | | | |
| 3/16/2021 | | | | 9.4 | | |
| 3/17/2021 | 260 | | 137 | | 212 | |
| 8/17/2021 | | 98.6 | | | 194 | 8.2 |
| 8/18/2021 | 219 | | | | | |
| 8/19/2021 | | | 130 | 4.1 | | |
| 2/9/2022 | 221 | | | 1.7 | 224 | |
| 2/10/2022 | | 95.9 | 127 | | | 13.2 |
| 8/3/2022 | | | 135 | | | 9.5 |
| 8/4/2022 | 412 | 110 | | 0.97 (J) | 239 | |
| 1/26/2023 | 214 | 109 | 152 | 0.59 (J) | 240 | |
| 1/27/2023 | | | | | | 9.1 |
| 8/10/2023 | 210 | 100 | | 0.62 (J) | | |
| 8/11/2023 | | | | | 159 | |
| 8/12/2023 | | | 146 | | | 7.6 |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|--------|-------|------|------|------|
| 4/2/2019 | 67.7 | 151 | | | |
| 4/3/2019 | | | 218 | 228 | 75.3 |
| 9/24/2019 | | 154 | | | |
| 9/25/2019 | | | 134 | | |
| 9/26/2019 | 96.2 | | | 225 | 129 |
| 3/26/2020 | | | 176 | | |
| 3/27/2020 | 36 | | | 204 | |
| 3/30/2020 | | 130 | | | 46.2 |
| 9/16/2020 | | 143 | | | |
| 9/17/2020 | | | 153 | | |
| 9/21/2020 | 84.2 | | | 221 | 114 |
| 3/15/2021 | 50.1 | 148 | | | 92.1 |
| 3/16/2021 | | | 162 | 189 | |
| 8/16/2021 | | 136 | | | |
| 8/17/2021 | | | 154 | 194 | 105 |
| 8/18/2021 | 82.1 | | | | |
| 2/8/2022 | | | | | 80.4 |
| 2/9/2022 | | | 123 | 197 | |
| 2/10/2022 | 32.5 | 141 | | | |
| 8/3/2022 | | 140 | 135 | 190 | |
| 8/4/2022 | 80.5 | | | | 76 |
| 1/26/2023 | 40.8 | 161 | 137 | 203 | 26 |
| 8/10/2023 | | 134 | 137 | 174 | 67.3 |
| 8/11/2023 | 15.4 | | | | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|---------|
| 5/19/2016 | <0.001 | <0.001 | <0.001 | | | |
| 5/23/2016 | | | | | | <0.001 |
| 7/11/2016 | <0.001 | <0.001 | | | | |
| 7/12/2016 | | | <0.001 | | | <0.001 |
| 8/30/2016 | <0.001 | <0.001 | <0.001 | | | |
| 9/1/2016 | | | | | | <0.001 |
| 10/19/2016 | <0.001 | <0.001 | <0.001 | | | |
| 10/24/2016 | | | | | | <0.001 |
| 12/6/2016 | <0.001 | <0.001 | <0.001 | | | |
| 12/7/2016 | | | | | | <0.001 |
| 1/24/2017 | <0.001 | <0.001 | <0.001 | | | |
| 1/26/2017 | | | | | | <0.001 |
| 3/21/2017 | <0.001 | 3E-05 (J) | <0.001 | | | |
| 3/22/2017 | | | | | | <0.001 |
| 5/22/2017 | <0.001 | <0.001 | <0.001 | | | |
| 5/24/2017 | | | | | | <0.001 |
| 4/2/2018 | <0.001 | <0.001 | | | | |
| 4/3/2018 | | | <0.001 | | | |
| 4/4/2018 | | | | | | <0.001 |
| 6/4/2018 | <0.001 | <0.001 | <0.001 | | | |
| 6/5/2018 | | | | | | <0.001 |
| 10/1/2018 | <0.001 | <0.001 | <0.001 | | | |
| 10/2/2018 | | | | | | <0.001 |
| 3/12/2019 | <0.001 | <0.001 | <0.001 | | | |
| 3/13/2019 | | | | | | <0.001 |
| 4/1/2019 | | | <0.001 | | | |
| 4/2/2019 | <0.001 | <0.001 | | | | |
| 4/3/2019 | | | | | | <0.001 |
| 9/23/2019 | <0.001 | <0.001 | <0.001 | | | |
| 9/27/2019 | | | | | | <0.001 |
| 3/2/2020 | <0.001 | <0.001 | <0.001 | | | |
| 3/3/2020 | | | | | | <0.001 |
| 3/25/2020 | <0.001 | <0.001 | <0.001 | | | |
| 4/1/2020 | | | | | | <0.001 |
| 9/15/2020 | <0.001 | <0.001 | <0.001 | | | |
| 9/16/2020 | | | | <0.001 | <0.001 | <0.001 |
| 11/10/2020 | | | | <0.001 | <0.001 | |
| 12/15/2020 | | | | <0.001 | <0.001 | |
| 1/19/2021 | | | | <0.001 | <0.001 | |
| 2/8/2021 | <0.001 | | | | | |
| 2/9/2021 | | <0.001 | <0.001 | <0.001 | <0.001 | |
| 2/15/2021 | | | | | | <0.001 |
| 3/10/2021 | <0.001 | | | | <0.001 | |
| 3/11/2021 | | <0.001 | <0.001 | <0.001 | | |
| 3/12/2021 | | | | | | <0.001 |
| 8/11/2021 | <0.001 | | | <0.001 | | |
| 8/12/2021 | | <0.001 | <0.001 | | | |
| 8/13/2021 | | | | | <0.001 | |
| 8/17/2021 | | | | | | <0.001 |
| 2/1/2022 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 2/9/2022 | | | | | | <0.001 |
| 8/2/2022 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|-----------|-------------|-------------|-------------|---------------|---------------|---------|
| 8/3/2022 | | | | | | <0.001 |
| 1/23/2023 | | | <0.001 | | | |
| 1/24/2023 | <0.001 | <0.001 | | <0.001 | <0.001 | |
| 1/27/2023 | | | | | | <0.001 |
| 8/8/2023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 8/10/2023 | | | | | | <0.001 |

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-----------|-------------|--------------|--------|-------------|--------|
| 5/20/2016 | | | | <0.001 | <0.001 | |
| 5/23/2016 | <0.001 | <0.001 | 0.000378 (J) | | | <0.001 |
| 7/12/2016 | 8E-05 (J) | 0.0002 (J) | 0.0004 (J) | <0.001 | 7E-05 (J) | <0.001 |
| 9/1/2016 | <0.001 | <0.001 | 0.0004 (J) | <0.001 | <0.001 | <0.001 |
| 10/20/2016 | | | | <0.001 | <0.001 | <0.001 |
| 10/24/2016 | <0.001 | <0.001 | 0.0005 (J) | | | |
| 12/6/2016 | | | | <0.001 | <0.001 | <0.001 |
| 12/7/2016 | <0.001 | <0.001 | 0.0004 (J) | | | |
| 1/25/2017 | | | | <0.001 | <0.001 | |
| 1/26/2017 | <0.001 | <0.001 | 0.0004 (J) | | | <0.001 |
| 3/21/2017 | | | | <0.001 | 9E-05 (J) | |
| 3/22/2017 | <0.001 | 0.0001 (J) | 0.0004 (J) | | | <0.001 |
| 5/23/2017 | | | | <0.001 | 8E-05 (J) | <0.001 |
| 5/24/2017 | 8E-05 (J) | 9E-05 (J) | 0.0003 (J) | | | |
| 4/3/2018 | | | | <0.001 | <0.001 | <0.001 |
| 4/4/2018 | <0.001 | <0.001 | 0.00032 (J) | | | |
| 6/5/2018 | <0.001 | | 0.00035 (J) | <0.001 | | |
| 6/6/2018 | | <0.001 | | | <0.001 | <0.001 |
| 10/2/2018 | | | | <0.001 | <0.001 | <0.001 |
| 10/3/2018 | <0.001 | <0.001 | | | | |
| 10/5/2018 | | | 0.00025 (J) | | | |
| 3/12/2019 | | | | | <0.001 | |
| 3/13/2019 | <0.001 | | 0.00039 (J) | <0.001 | | <0.001 |
| 3/14/2019 | | <0.001 | | | | |
| 4/2/2019 | | | | <0.001 | | |
| 4/3/2019 | <0.001 | <0.001 | | | <0.001 | <0.001 |
| 4/5/2019 | | | 0.00034 (J) | | | |
| 9/24/2019 | | | | | 0.00011 (J) | |
| 9/25/2019 | | | | <0.001 | | |
| 9/26/2019 | | | 0.00039 (J) | | | |
| 9/27/2019 | <0.001 | 8.8E-05 (J) | | | | <0.001 |
| 3/3/2020 | <0.001 | 6.6E-05 (J) | | | 6.1E-05 (J) | |
| 3/4/2020 | | | 0.00056 (J) | <0.001 | | <0.001 |
| 3/26/2020 | | 8E-05 (J) | | | | |
| 3/27/2020 | | | | <0.001 | 7.7E-05 (J) | |
| 3/30/2020 | | | 0.00048 (J) | | | |
| 3/31/2020 | <0.001 | | | | | <0.001 |
| 9/16/2020 | | | | <0.001 | <0.001 | |
| 9/17/2020 | | | | | | <0.001 |
| 9/18/2020 | <0.001 | <0.001 | | | | |
| 9/21/2020 | | | 0.00036 (J) | | | |
| 2/10/2021 | | | | <0.001 | | |
| 2/12/2021 | <0.001 | <0.001 | | | | |
| 2/16/2021 | | | | | <0.001 | <0.001 |
| 2/22/2021 | | | 0.0003 (J) | | | |
| 3/15/2021 | | | | <0.001 | <0.001 | |
| 3/16/2021 | <0.001 | <0.001 | | | | <0.001 |
| 3/17/2021 | | | 0.00037 (J) | | | |
| 8/16/2021 | | | | <0.001 | | |
| 8/17/2021 | | | | | | <0.001 |
| 8/18/2021 | <0.001 | <0.001 | | | <0.001 | |
| 8/19/2021 | | | 0.0002 (J) | | | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|---------|-------------|--------|-------------|--------|
| 2/9/2022 | <0.001 | <0.001 | | | | <0.001 |
| 2/10/2022 | | | <0.001 | <0.001 | <0.001 | |
| 8/3/2022 | <0.001 | <0.001 | <0.001 | <0.001 | 0.00018 (J) | |
| 8/4/2022 | | | | | | <0.001 |
| 8/11/2022 | | | | <0.001 | | |
| 1/26/2023 | <0.001 | <0.001 | 0.00031 (J) | | | <0.001 |
| 1/27/2023 | | | | <0.001 | | |
| 2/1/2023 | | | | | <0.001 | |
| 8/10/2023 | <0.001 | <0.001 | | | | |
| 8/11/2023 | | | | | | <0.001 |
| 8/12/2023 | | | 0.00028 (J) | <0.001 | <0.001 | |

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------------|--------|--------|--------|--------|--------|
| 3/13/2019 | | <0.001 | <0.001 | | <0.001 | <0.001 |
| 3/14/2019 | <0.001 | | | <0.001 | | |
| 4/2/2019 | | <0.001 | | | | |
| 4/3/2019 | <0.001 | | | <0.001 | <0.001 | |
| 4/4/2019 | | | | | | <0.001 |
| 4/8/2019 | | | <0.001 | | | |
| 9/25/2019 | | <0.001 | | | | |
| 9/26/2019 | | | <0.001 | | <0.001 | <0.001 |
| 9/27/2019 | 0.00027 (J) | | | <0.001 | | |
| 3/2/2020 | | <0.001 | | | | |
| 3/3/2020 | | | | <0.001 | | |
| 3/4/2020 | 0.00026 (J) | | <0.001 | | <0.001 | <0.001 |
| 3/26/2020 | 0.00026 (J) | | | <0.001 | | |
| 3/27/2020 | | <0.001 | | | | |
| 3/30/2020 | | | <0.001 | | | |
| 3/31/2020 | | | | | <0.001 | |
| 4/2/2020 | | | | | | <0.001 |
| 9/17/2020 | | <0.001 | | | <0.001 | |
| 9/18/2020 | | | | <0.001 | | <0.001 |
| 9/21/2020 | 0.0003 (J) | | <0.001 | | | |
| 2/11/2021 | | <0.001 | | | | |
| 2/12/2021 | 0.00019 (J) | | | <0.001 | | |
| 2/16/2021 | | | <0.001 | | <0.001 | <0.001 |
| 3/12/2021 | | | | | | <0.001 |
| 3/15/2021 | | <0.001 | | | | |
| 3/16/2021 | | | | <0.001 | | |
| 3/17/2021 | 0.00026 (J) | | <0.001 | | <0.001 | |
| 8/17/2021 | | <0.001 | | | <0.001 | <0.001 |
| 8/18/2021 | 0.00023 (J) | | | | | |
| 8/19/2021 | | | <0.001 | <0.001 | | |
| 2/9/2022 | <0.001 | | | <0.001 | <0.001 | |
| 2/10/2022 | | <0.001 | <0.001 | | | <0.001 |
| 8/3/2022 | | | <0.001 | | | <0.001 |
| 8/4/2022 | 0.00026 (J) | <0.001 | | <0.001 | <0.001 | |
| 1/26/2023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 1/27/2023 | | | | | | <0.001 |
| 8/10/2023 | <0.001 | <0.001 | | <0.001 | | |
| 8/11/2023 | | | | | <0.001 | |
| 8/12/2023 | | | <0.001 | | | <0.001 |

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|-------------|-------------|--------|-------------|--------|
| 3/12/2019 | <0.001 | <0.001 | | | |
| 3/13/2019 | | | <0.001 | <0.001 | <0.001 |
| 4/2/2019 | <0.001 | <0.001 | | | |
| 4/3/2019 | | | <0.001 | <0.001 | <0.001 |
| 9/24/2019 | | 6.4E-05 (J) | | | |
| 9/25/2019 | | | <0.001 | | |
| 9/26/2019 | <0.001 | | | <0.001 | <0.001 |
| 3/2/2020 | | <0.001 | <0.001 | | |
| 3/3/2020 | | | | 8.2E-05 (J) | <0.001 |
| 3/4/2020 | 9.2E-05 (J) | | | | |
| 3/26/2020 | | | <0.001 | | |
| 3/27/2020 | <0.001 | | | <0.001 | |
| 3/30/2020 | | <0.001 | | | <0.001 |
| 9/16/2020 | | <0.001 | | | |
| 9/17/2020 | | | <0.001 | | |
| 9/21/2020 | <0.001 | | | <0.001 | <0.001 |
| 2/10/2021 | <0.001 | | | | |
| 2/15/2021 | | <0.001 | | | <0.001 |
| 2/16/2021 | | | <0.001 | <0.001 | |
| 3/15/2021 | <0.001 | <0.001 | | | <0.001 |
| 3/16/2021 | | | <0.001 | <0.001 | |
| 8/16/2021 | | <0.001 | | | |
| 8/17/2021 | | | <0.001 | <0.001 | <0.001 |
| 8/18/2021 | <0.001 | | | | |
| 2/8/2022 | | | | | <0.001 |
| 2/9/2022 | | | <0.001 | <0.001 | |
| 2/10/2022 | <0.001 | <0.001 | | | |
| 8/3/2022 | | <0.001 | <0.001 | <0.001 | |
| 8/4/2022 | <0.001 | | | | <0.001 |
| 1/26/2023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 8/10/2023 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 8/11/2023 | <0.001 | | | | |

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWC-10 |
|------------|-------------|-------------|-------------|---------------|---------------|----------|
| 5/19/2016 | 421 | 143 | 267 | | | |
| 5/23/2016 | | | | | | 629 |
| 7/11/2016 | 363 | 125 | | | | |
| 7/12/2016 | | | 249 | | | 661 |
| 8/30/2016 | 330 | 168 | 254 | | | |
| 9/1/2016 | | | | | | 769 |
| 10/19/2016 | 380 | 176 | 357 | | | |
| 10/24/2016 | | | | | | 643 |
| 12/6/2016 | 377 | 145 | 285 | | | |
| 12/7/2016 | | | | | | 697 |
| 1/24/2017 | 342 | 129 | 300 | | | |
| 1/26/2017 | | | | | | 368 |
| 3/21/2017 | 340 | 103 | 288 | | | |
| 3/22/2017 | | | | | | 683 |
| 5/22/2017 | 338 | 92 | 263 | | | |
| 5/24/2017 | | | | | | 696 |
| 10/3/2017 | 343 | 127 | 300 | | | 746 |
| 6/4/2018 | 415 | 140 | 266 | | | |
| 6/5/2018 | | | | | | 679 |
| 10/1/2018 | 354 | 135 | 291 | | | |
| 10/2/2018 | | | | | | 572 |
| 4/1/2019 | | | 284 | | | |
| 4/2/2019 | 452 | 133 | | | | |
| 4/3/2019 | | | | | | 525 |
| 9/23/2019 | 442 | 129 | 268 | | | |
| 9/27/2019 | | | | | | 624 |
| 3/25/2020 | 496 | 138 | 284 | | | |
| 4/1/2020 | | | | | | 290 |
| 6/16/2020 | 632 | | 448 | | | |
| 9/15/2020 | 265 | 124 | 258 | | | |
| 9/16/2020 | | | | 272 | 270 | 490 |
| 11/10/2020 | | | | 307 | 287 | |
| 12/15/2020 | | | | 289 | 295 | |
| 1/19/2021 | | | | 270 | 278 | |
| 3/10/2021 | 348 | | | | 289 | |
| 3/11/2021 | | 169 | 267 | 279 | | |
| 3/12/2021 | | | | | | 490 (H1) |
| 8/11/2021 | 366 | | | 277 | | |
| 8/12/2021 | | 118 | 265 | | | |
| 8/13/2021 | | | | | 436 | |
| 8/17/2021 | | | | | | 496 |
| 2/1/2022 | 270 | 156 | 350 | 156 | 444 | |
| 2/9/2022 | | | | | | 250 |
| 8/2/2022 | 400 | 196 | 287 | 278 | 311 | |
| 8/3/2022 | | | | | | 433 |
| 1/23/2023 | | | 293 | | | |
| 1/24/2023 | 369 | 164 | | 271 | 363 | |
| 1/27/2023 | | | | | | 188 |
| 8/8/2023 | 457 | 189 | 285 | 274 | 361 | |
| 8/10/2023 | | | | | | 504 |

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|---------|---------|---------|--------|--------|--------|
| 5/20/2016 | | | | 427 | 711 | |
| 5/23/2016 | 564 | 1060 | 683 | | | 984 |
| 7/12/2016 | 627 | 909 | 563 | 410 | 704 | 887 |
| 9/1/2016 | 656 | 1480 | 702 | 484 | 763 | 956 |
| 10/20/2016 | | | | 393 | 644 | 642 |
| 10/24/2016 | 836 | 868 | 647 | | | |
| 12/6/2016 | | | | 492 | 733 | 899 |
| 12/7/2016 | 748 | 811 | 465 | | | |
| 1/25/2017 | | | | 461 | 744 | |
| 1/26/2017 | 571 | 846 | 411 | | | 869 |
| 3/21/2017 | | | | 415 | 818 | |
| 3/22/2017 | 597 | 804 | 427 | | | 936 |
| 5/23/2017 | | | | 450 | 765 | 939 |
| 5/24/2017 | 566 | 803 | 377 | | | |
| 10/3/2017 | 443 | 608 | 268 | 464 | 812 | 1040 |
| 6/5/2018 | 489 | | 528 | 459 | | |
| 6/6/2018 | | 535 | | | 611 | 810 |
| 10/2/2018 | | | | 426 | 597 | 693 |
| 10/3/2018 | 449 | 607 | | | | |
| 10/5/2018 | | | 322 | | | |
| 4/2/2019 | | | | 428 | | |
| 4/3/2019 | 483 | 462 | | | 543 | 673 |
| 4/5/2019 | | | 331 | | | |
| 9/24/2019 | | | | | 457 | |
| 9/25/2019 | | | | 503 | | |
| 9/26/2019 | | | 1010 | | | |
| 9/27/2019 | 528 | 653 | | | | 730 |
| 3/26/2020 | | 533 | | | | |
| 3/27/2020 | | | | 413 | 541 | |
| 3/30/2020 | | | 895 | | | |
| 3/31/2020 | 565 | | | | | 1010 |
| 6/16/2020 | | | | | 573 | |
| 6/17/2020 | | | | 423 | | |
| 9/16/2020 | | | | 392 | 552 | |
| 9/17/2020 | | | | | | 680 |
| 9/18/2020 | 626 | 704 | | | | |
| 9/21/2020 | | | 732 | | | |
| 3/15/2021 | | | | 370 | 614 | |
| 3/16/2021 | 558 | 614 | | | | 672 |
| 3/17/2021 | | | 716 | | | |
| 8/16/2021 | | | | 407 | | |
| 8/17/2021 | | | | | | 704 |
| 8/18/2021 | 566 | 600 | | | 620 | |
| 8/19/2021 | | | 726 | | | |
| 2/9/2022 | 544 | 678 | | | | 756 |
| 2/10/2022 | | | 814 | 414 | 578 | |
| 8/3/2022 | 572 | 650 | 958 | 441 | 648 | |
| 8/4/2022 | | | | | | 760 |
| 8/11/2022 | | | | 445 | | |
| 1/26/2023 | 429 | 624 | 962 | | | 745 |
| 1/27/2023 | | | | 473 | | |
| 2/1/2023 | | | | | 528 | |

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|-----------|---------|---------|---------|--------|--------|--------|
| 8/10/2023 | 438 | 683 | | | | |
| 8/11/2023 | | | | | | 757 |
| 8/12/2023 | | | 803 | 378 | 564 | |

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D |
|-----------|-------|-------|--------|--------|--------|--------|
| 4/2/2019 | | 435 | | | | |
| 4/3/2019 | 310 | | | 15 (J) | 493 | |
| 4/4/2019 | | | | | | 203 |
| 4/8/2019 | | | 323 | | | |
| 9/25/2019 | | 461 | | | | |
| 9/26/2019 | | | 360 | | 643 | 265 |
| 9/27/2019 | 442 | | | 409 | | |
| 3/26/2020 | 626 | | | 385 | | |
| 3/27/2020 | | 429 | | | | |
| 3/30/2020 | | | 280 | | | |
| 3/31/2020 | | | | | 623 | |
| 4/2/2020 | | | | | | 224 |
| 9/17/2020 | | 460 | | | 732 | |
| 9/18/2020 | | | | 382 | | 211 |
| 9/21/2020 | 608 | | 391 | | | |
| 3/12/2021 | | | | | | 215 |
| 3/15/2021 | | 406 | | | | |
| 3/16/2021 | | | | 347 | | |
| 3/17/2021 | 543 | | 420 | | 738 | |
| 8/17/2021 | | 437 | | | 746 | 239 |
| 8/18/2021 | 464 | | | | | |
| 8/19/2021 | | | 420 | 373 | | |
| 2/9/2022 | 503 | | | 364 | 734 | |
| 2/10/2022 | | 459 | 412 | | | 242 |
| 8/3/2022 | | | 415 | | | 230 |
| 8/4/2022 | 762 | 431 | | 302 | 788 | |
| 1/26/2023 | 490 | 482 | 412 | 346 | 741 | |
| 1/27/2023 | | | | | | 255 |
| 8/10/2023 | 524 | 429 | | 325 | | |
| 8/11/2023 | | | | | 706 | |
| 8/12/2023 | | | 449 | | | 238 |

Time Series

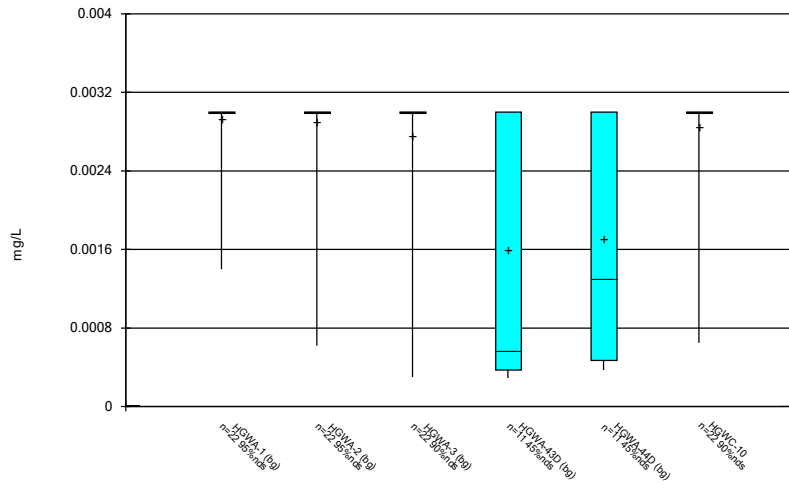
Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/15/2023 12:56 PM View: Constituents View

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|-----------|--------|-------|------|------|------|
| 4/2/2019 | 350 | 548 | | | |
| 4/3/2019 | | | 396 | 437 | 213 |
| 9/24/2019 | | 603 | | | |
| 9/25/2019 | | | 460 | | |
| 9/26/2019 | 418 | | | 735 | 383 |
| 3/26/2020 | | | 385 | | |
| 3/27/2020 | 287 | | | 676 | |
| 3/30/2020 | | 552 | | | 142 |
| 9/16/2020 | | 547 | | | |
| 9/17/2020 | | | 486 | | |
| 9/21/2020 | 393 | | | 656 | 326 |
| 3/15/2021 | 293 | 555 | | | 293 |
| 3/16/2021 | | | 333 | 600 | |
| 8/16/2021 | | 512 | | | |
| 8/17/2021 | | | 339 | 656 | 344 |
| 8/18/2021 | 396 | | | | |
| 2/8/2022 | | | | | 290 |
| 2/9/2022 | | | 314 | 652 | |
| 2/10/2022 | 299 | 508 | | | |
| 8/3/2022 | | 538 | 391 | 666 | |
| 8/4/2022 | 378 | | | | 246 |
| 1/26/2023 | 349 | 632 | 363 | 646 | 89 |
| 8/10/2023 | | 564 | 423 | 626 | 305 |
| 8/11/2023 | 296 | | | | |

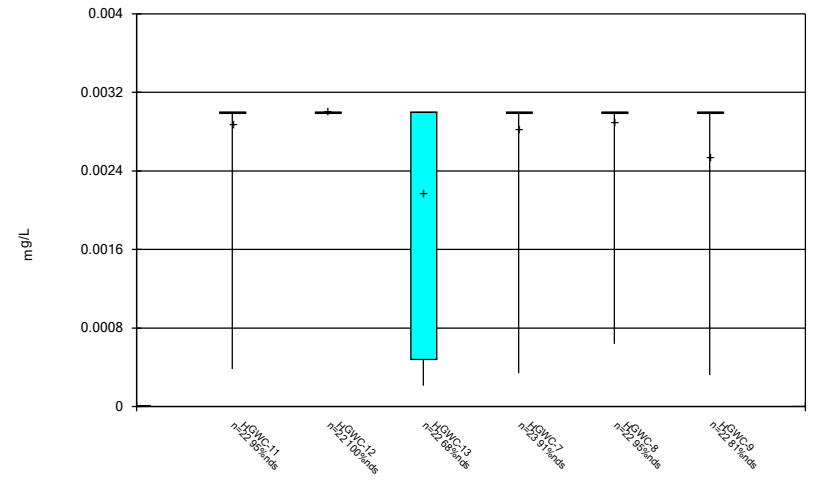
FIGURE B.

Box & Whiskers Plot



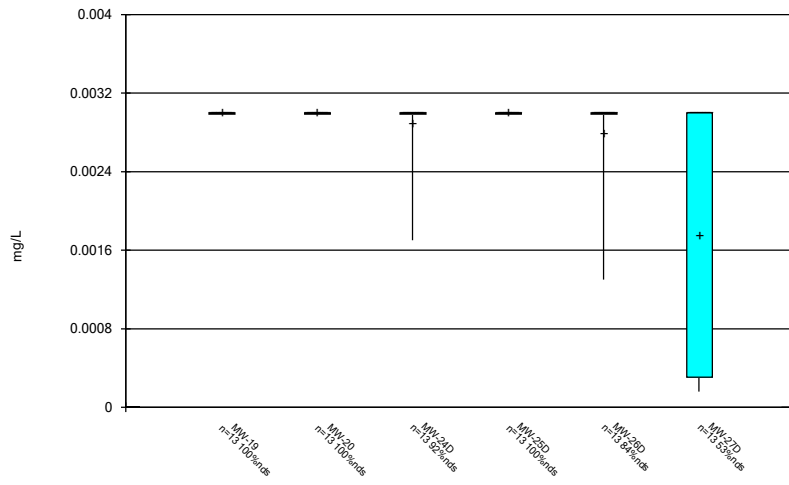
Constituent: Antimony Analysis Run 11/15/2023 12:57 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



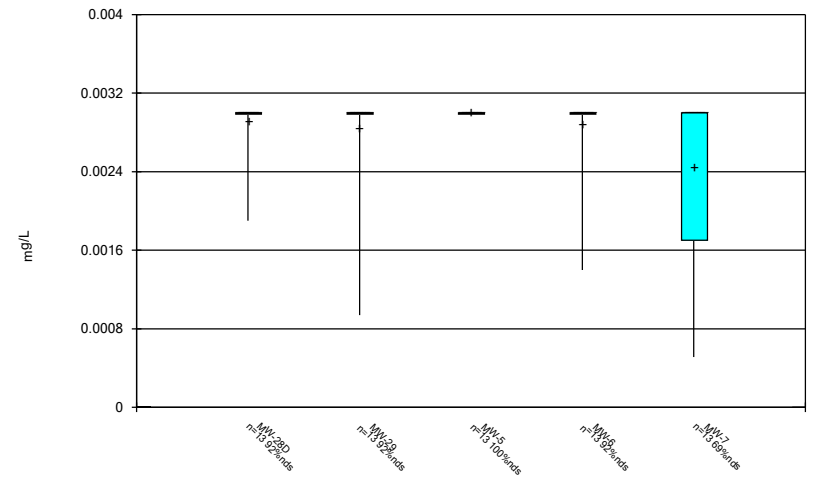
Constituent: Antimony Analysis Run 11/15/2023 12:57 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



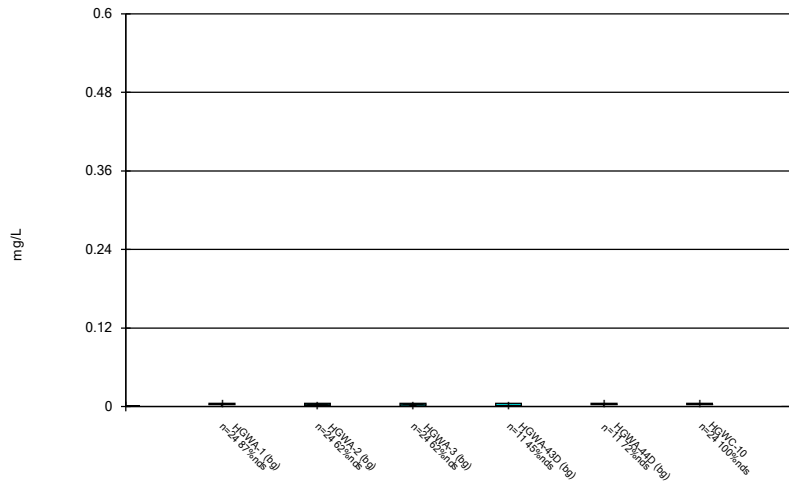
Constituent: Antimony Analysis Run 11/15/2023 12:57 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



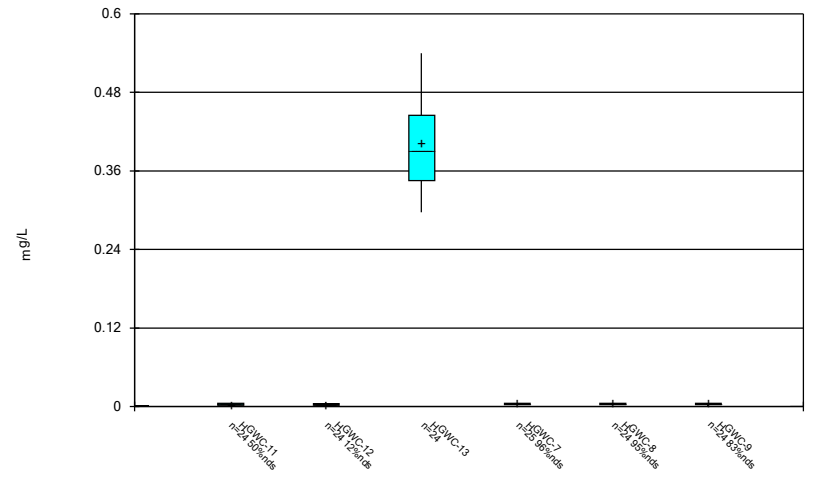
Constituent: Antimony Analysis Run 11/15/2023 12:57 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



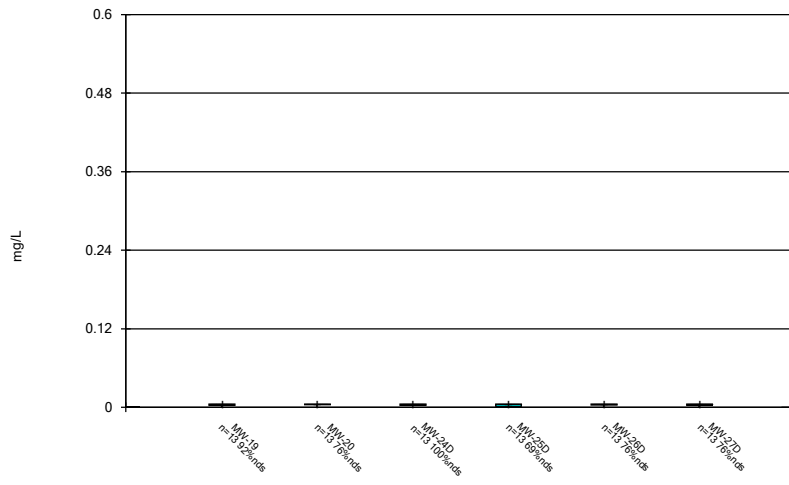
Constituent: Arsenic Analysis Run 11/15/2023 12:57 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



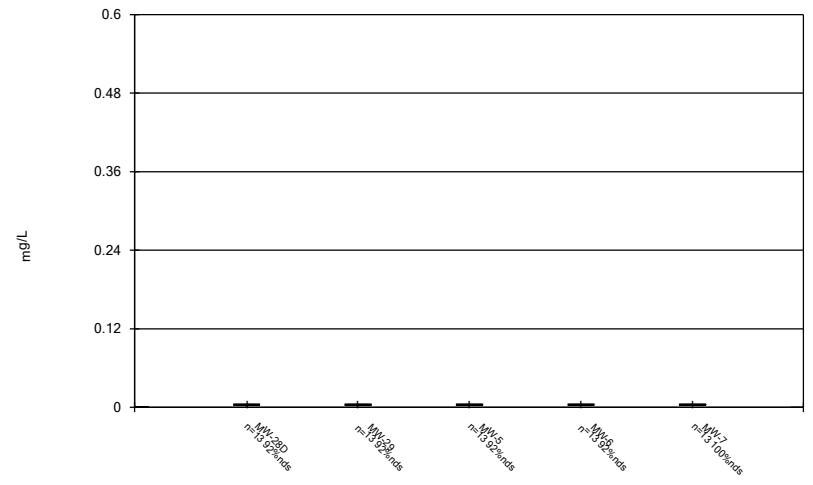
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



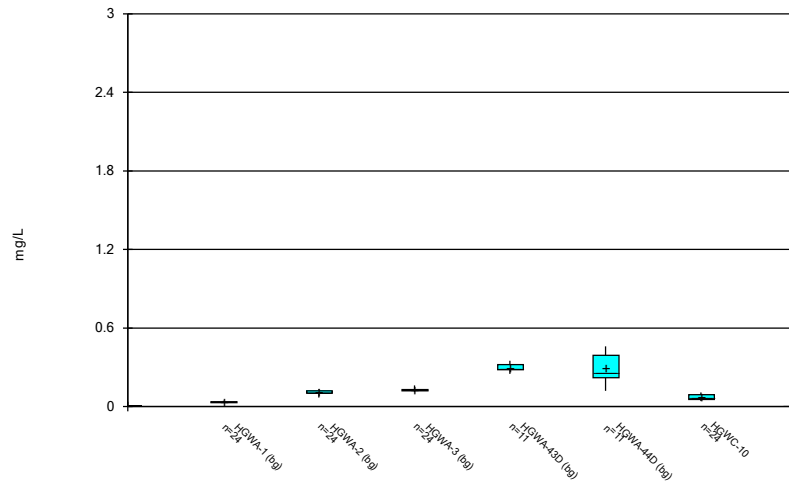
Constituent: Arsenic Analysis Run 11/15/2023 12:57 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



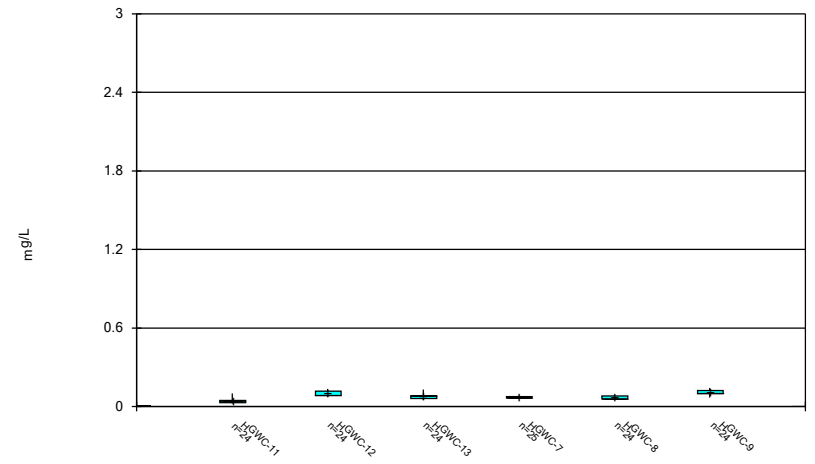
Constituent: Arsenic Analysis Run 11/15/2023 12:57 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



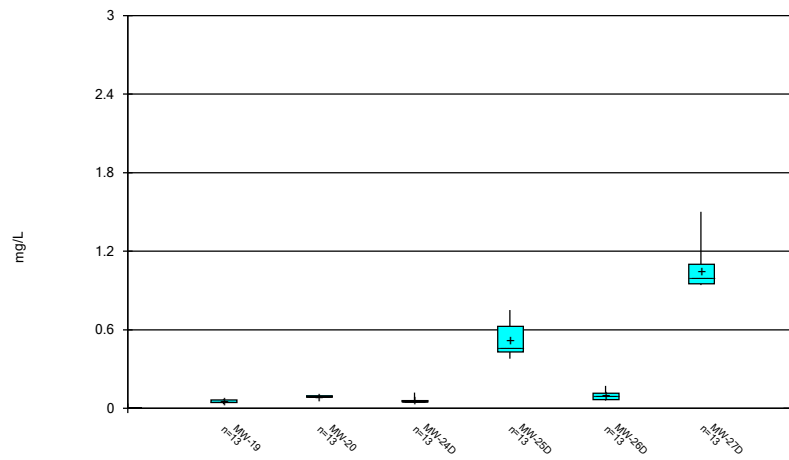
Constituent: Barium Analysis Run 11/15/2023 12:57 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



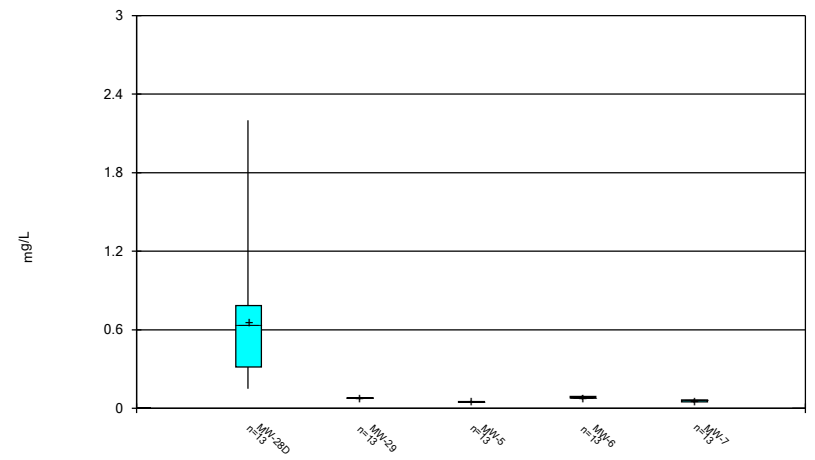
Constituent: Barium Analysis Run 11/15/2023 12:57 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



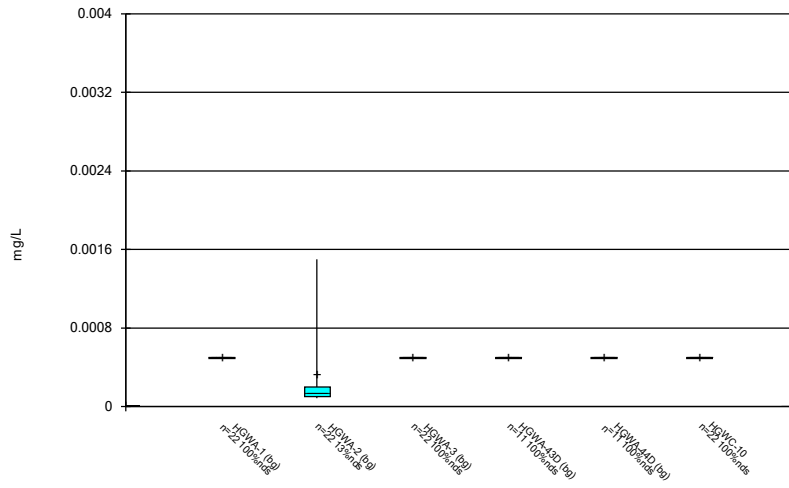
Constituent: Barium Analysis Run 11/15/2023 12:57 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



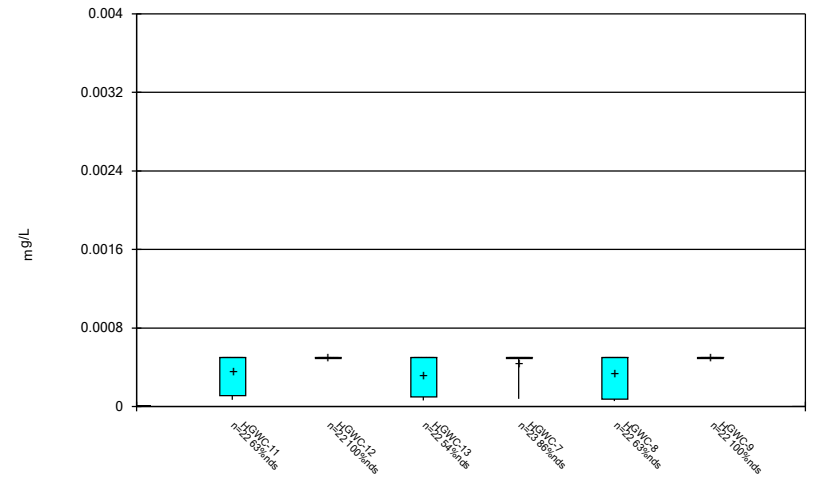
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



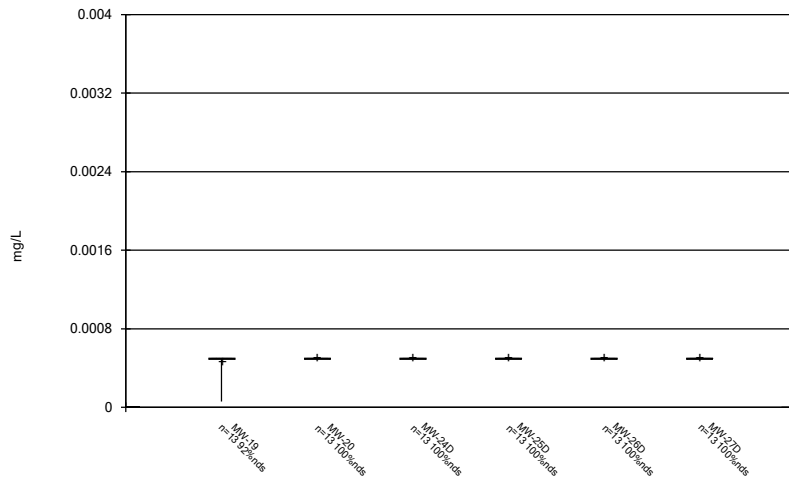
Constituent: Beryllium Analysis Run 11/15/2023 12:57 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



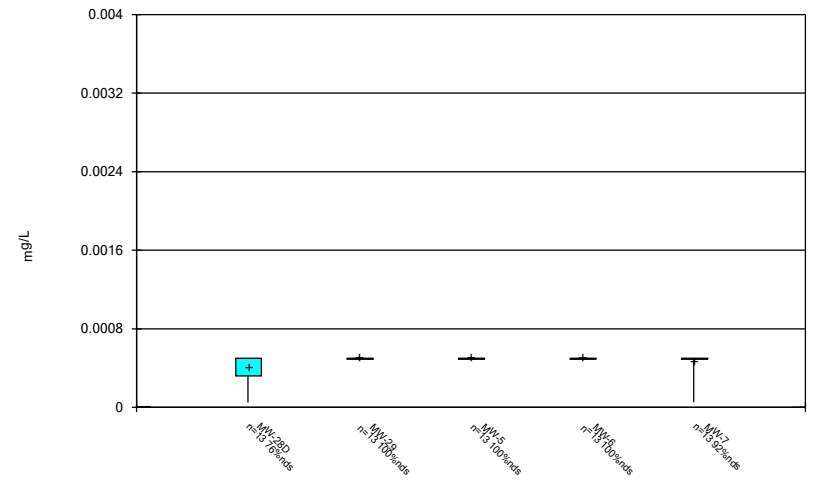
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



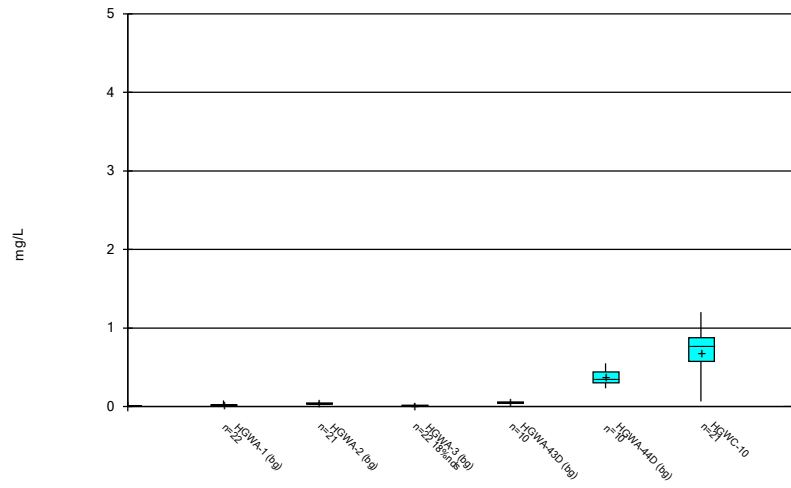
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



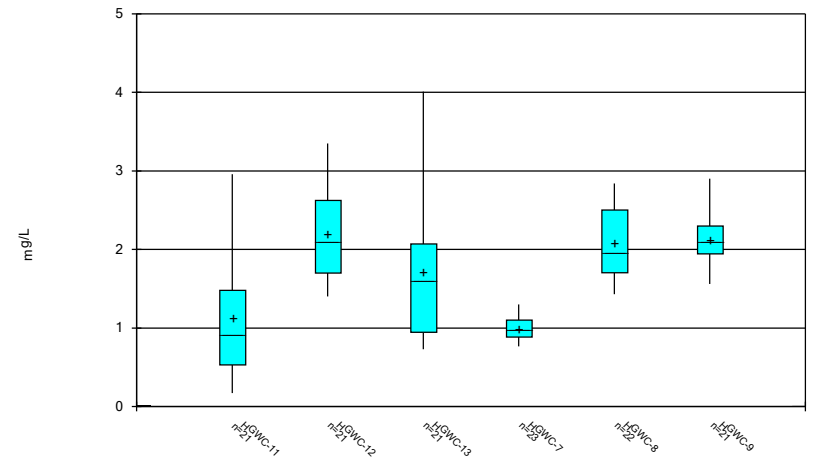
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



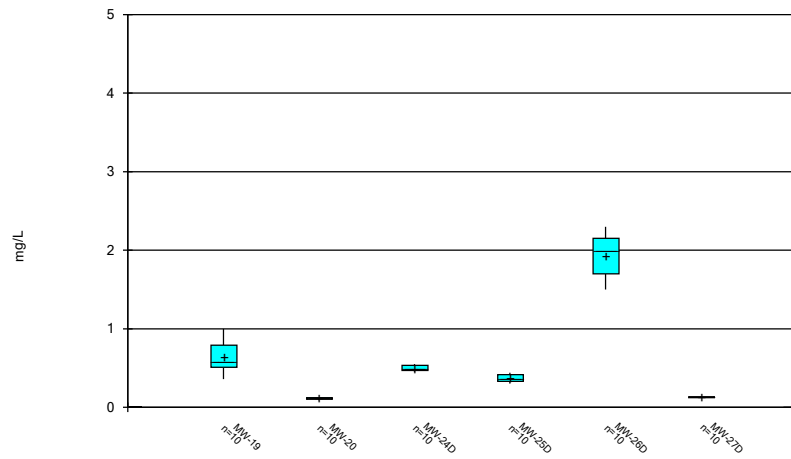
Constituent: Boron Analysis Run 11/15/2023 12:57 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



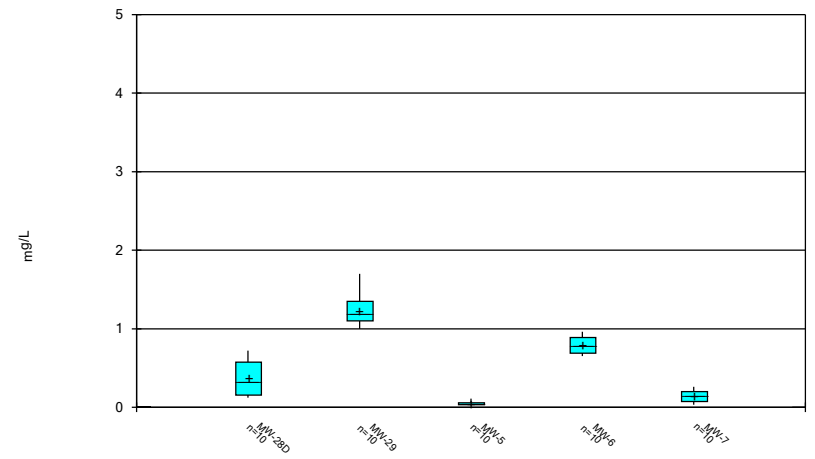
Constituent: Boron Analysis Run 11/15/2023 12:57 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



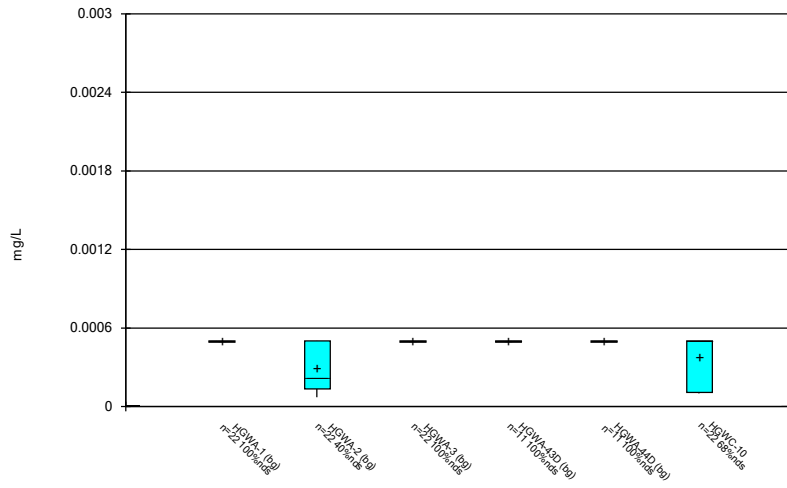
Constituent: Boron Analysis Run 11/15/2023 12:57 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



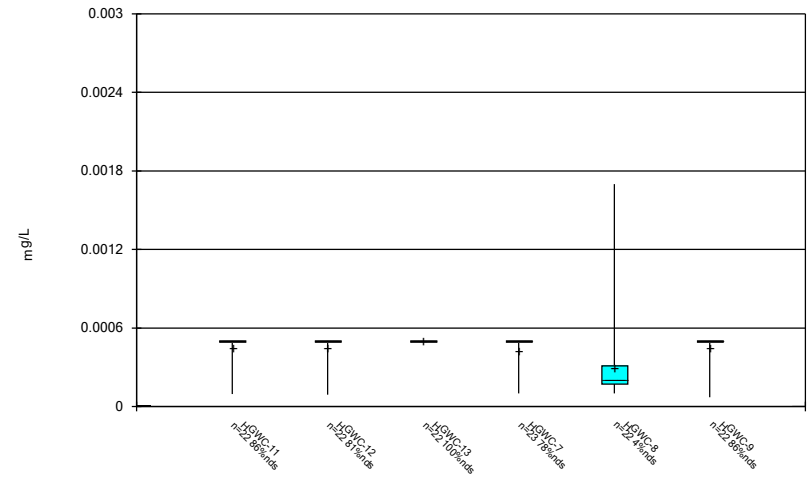
Constituent: Boron Analysis Run 11/15/2023 12:57 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



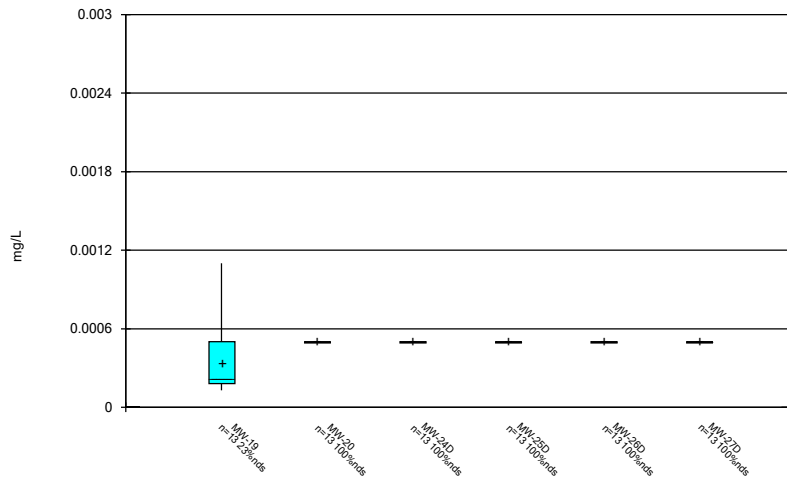
Constituent: Cadmium Analysis Run 11/15/2023 12:57 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



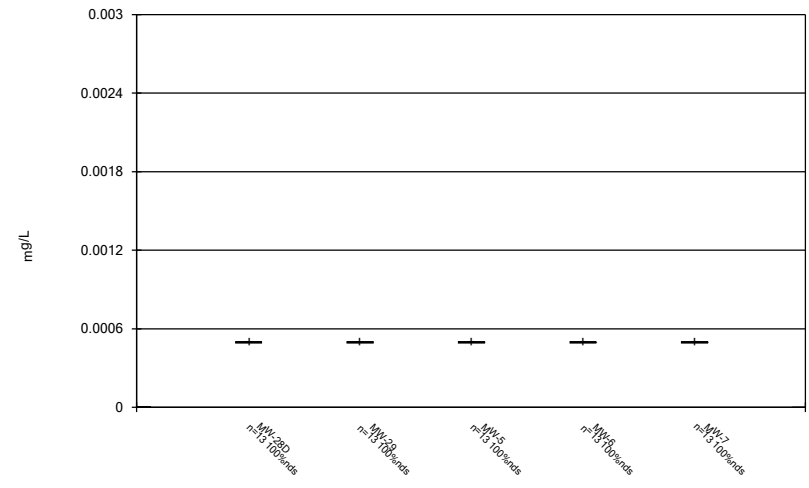
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



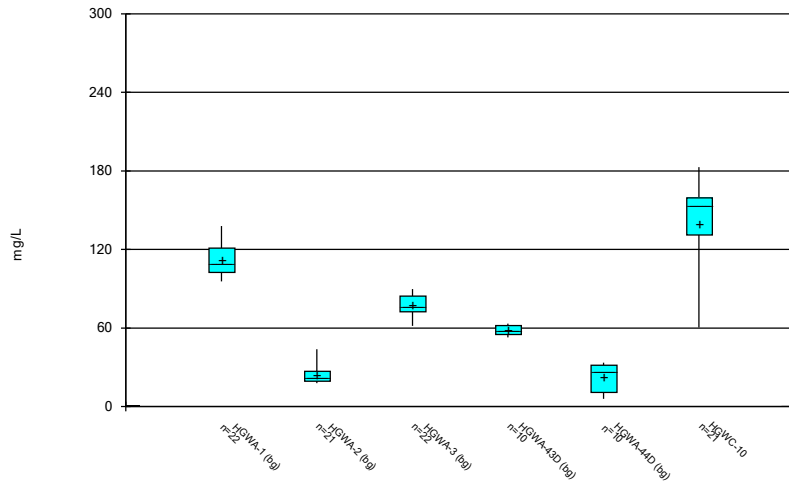
Constituent: Cadmium Analysis Run 11/15/2023 12:57 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



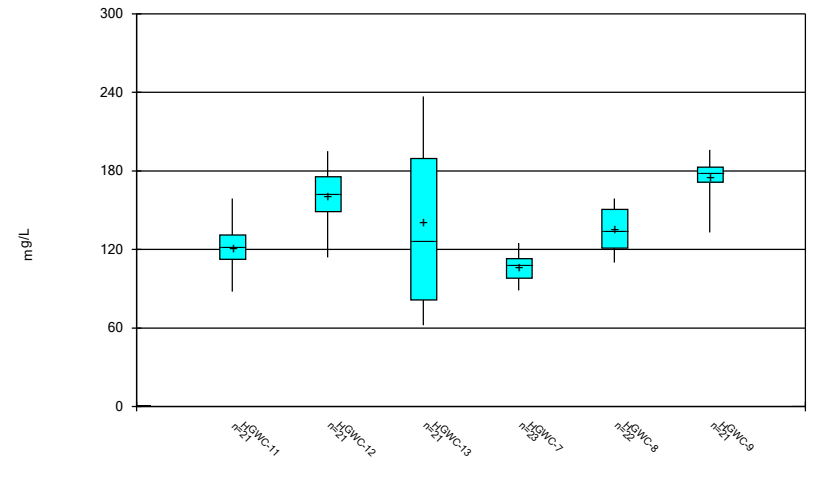
Constituent: Cadmium Analysis Run 11/15/2023 12:57 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



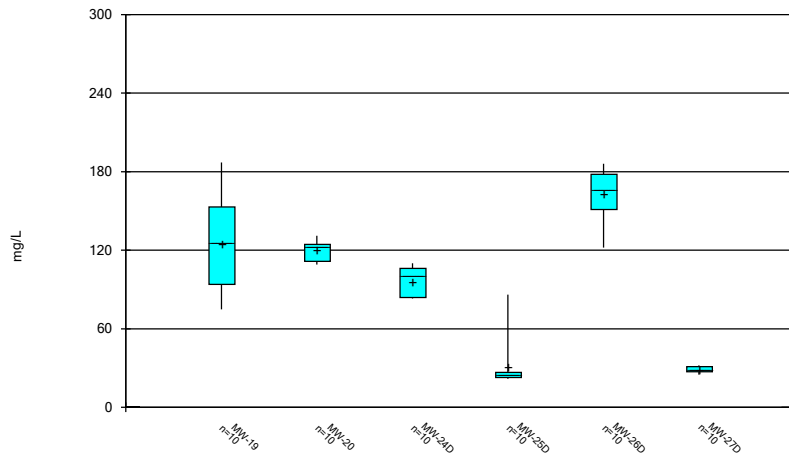
Constituent: Calcium Analysis Run 11/15/2023 12:57 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



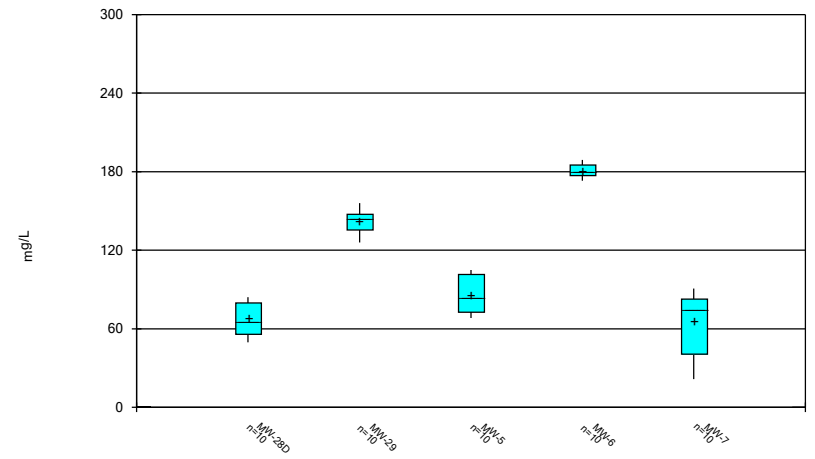
Constituent: Calcium Analysis Run 11/15/2023 12:57 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



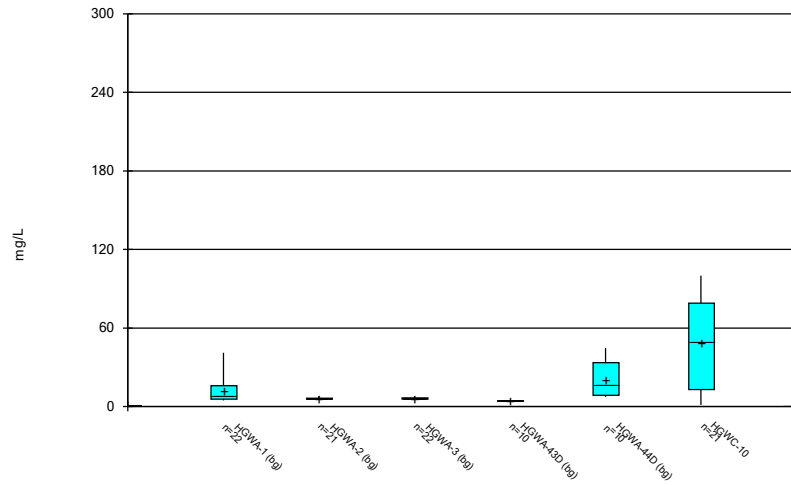
Constituent: Calcium Analysis Run 11/15/2023 12:57 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



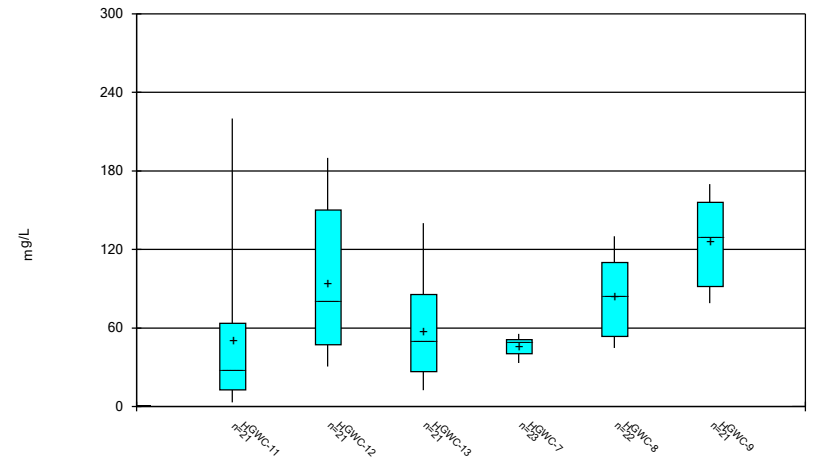
Constituent: Calcium Analysis Run 11/15/2023 12:57 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



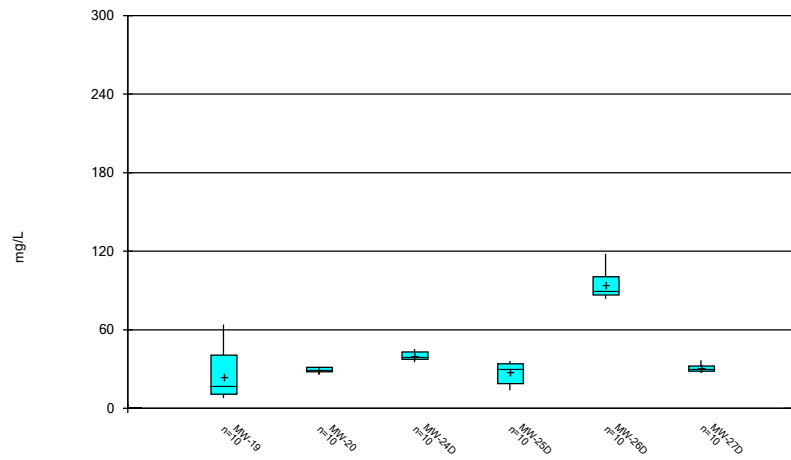
Constituent: Chloride Analysis Run 11/15/2023 12:58 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



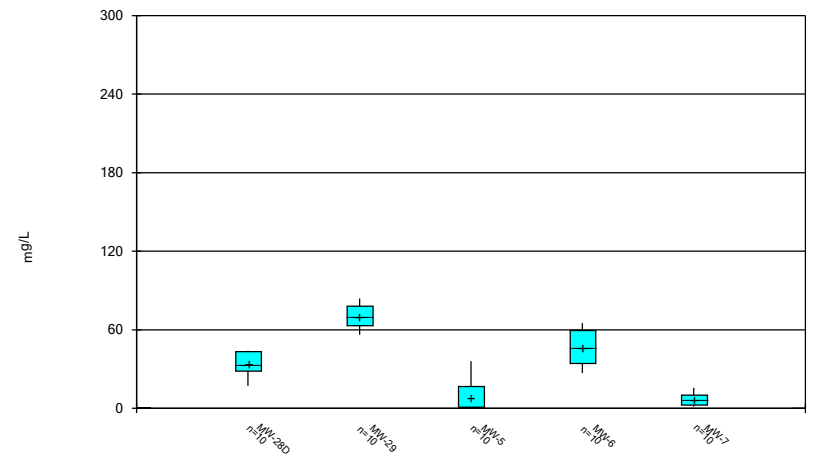
Constituent: Chloride Analysis Run 11/15/2023 12:58 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



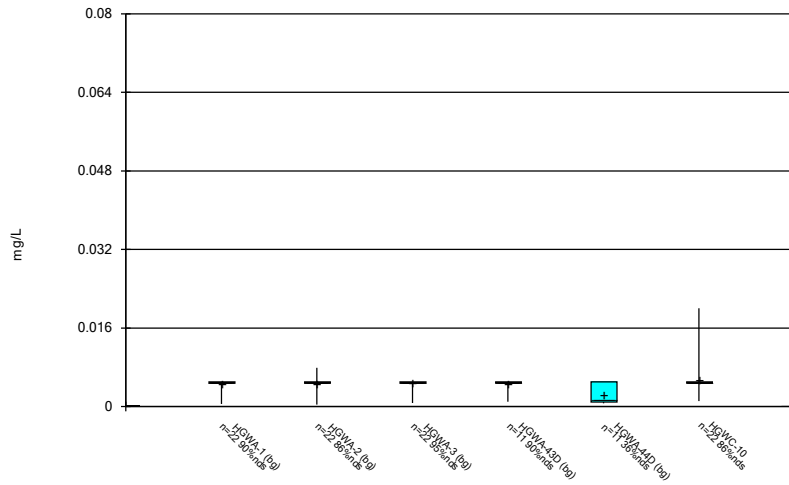
Constituent: Chloride Analysis Run 11/15/2023 12:58 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



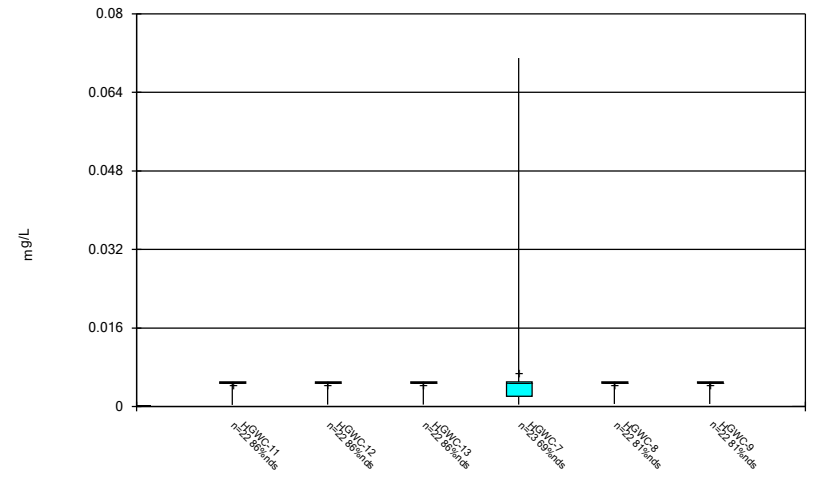
Constituent: Chloride Analysis Run 11/15/2023 12:58 PM View: Constituents View
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



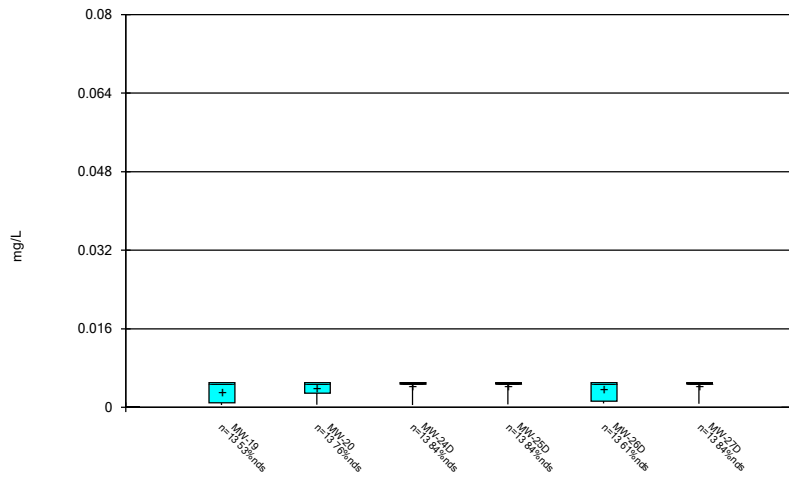
Constituent: Chromium Analysis Run 11/15/2023 12:58 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



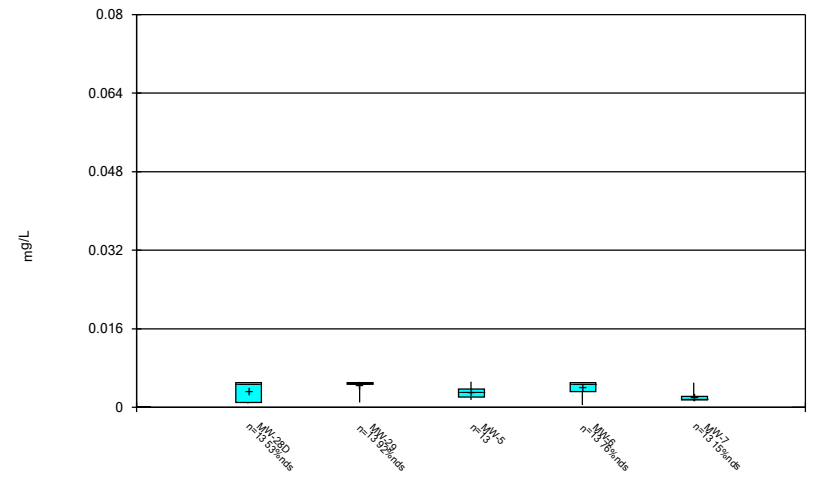
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



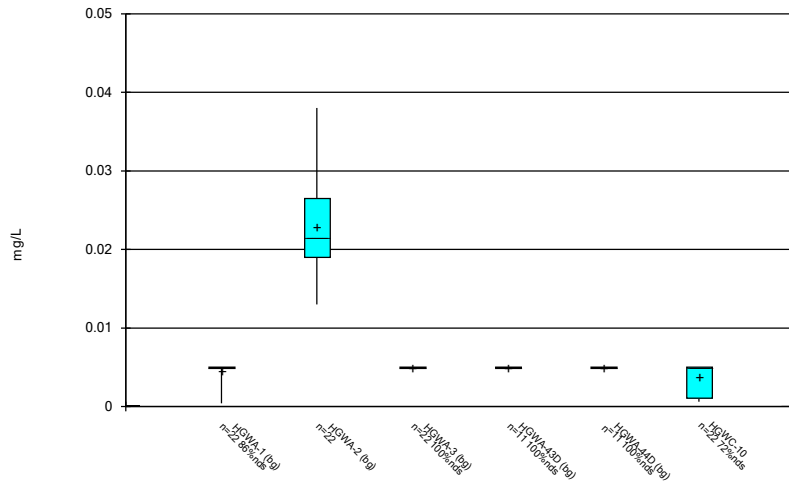
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



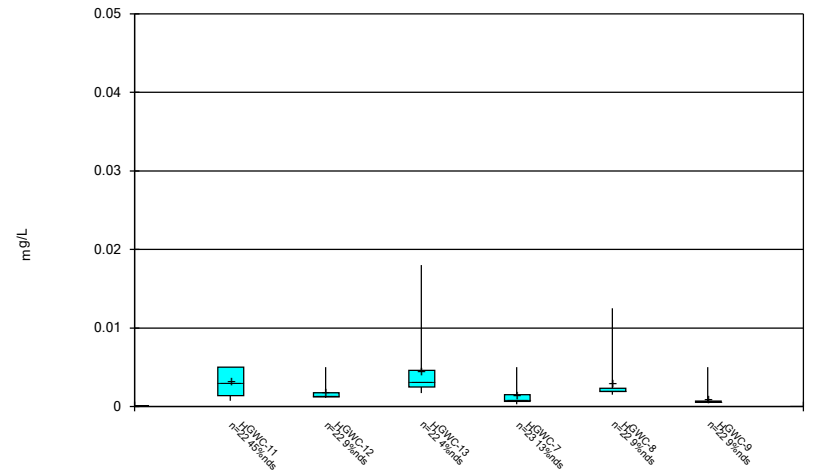
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Box & Whiskers Plot



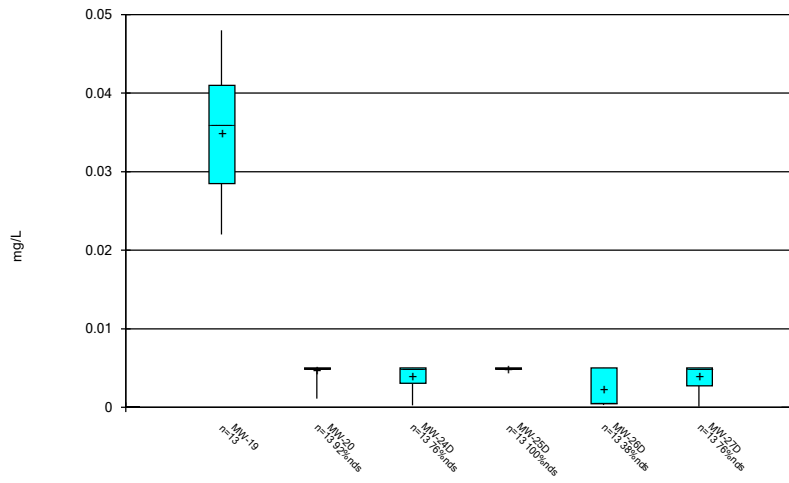
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Box & Whiskers Plot



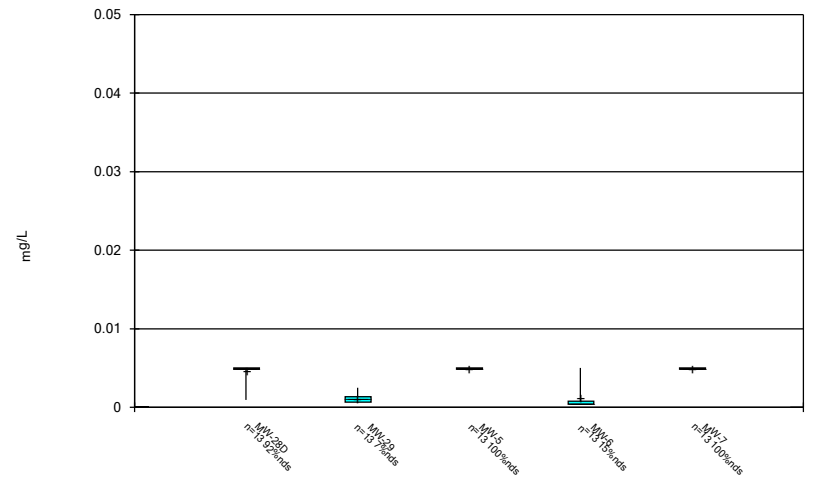
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



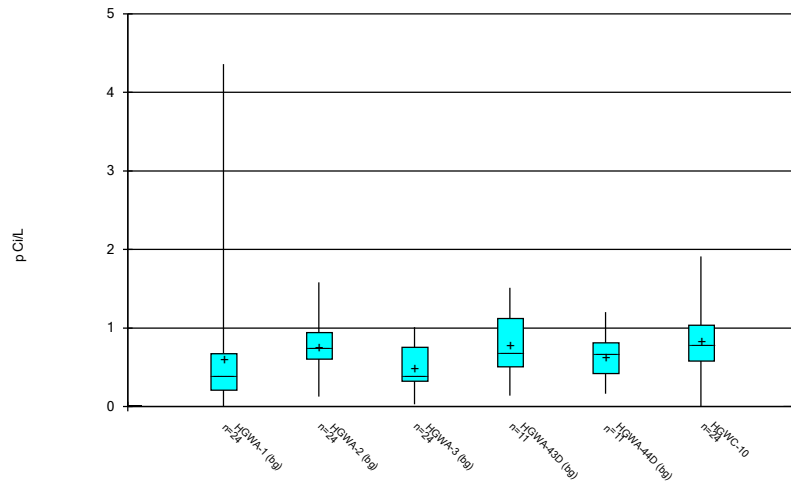
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



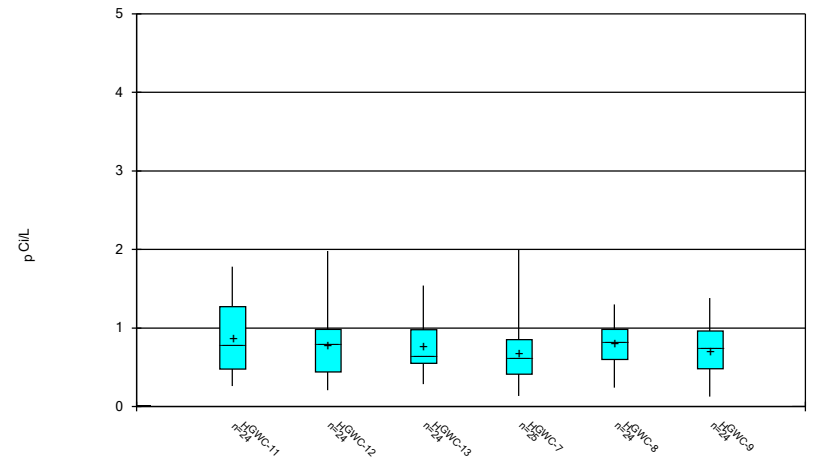
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Box & Whiskers Plot



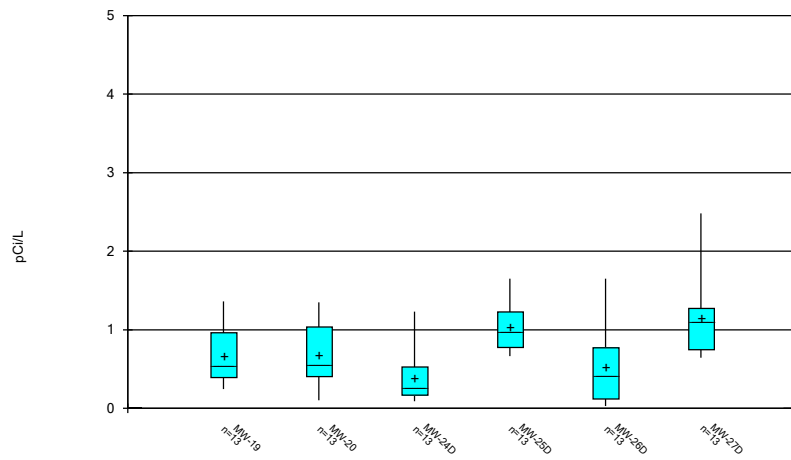
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Box & Whiskers Plot



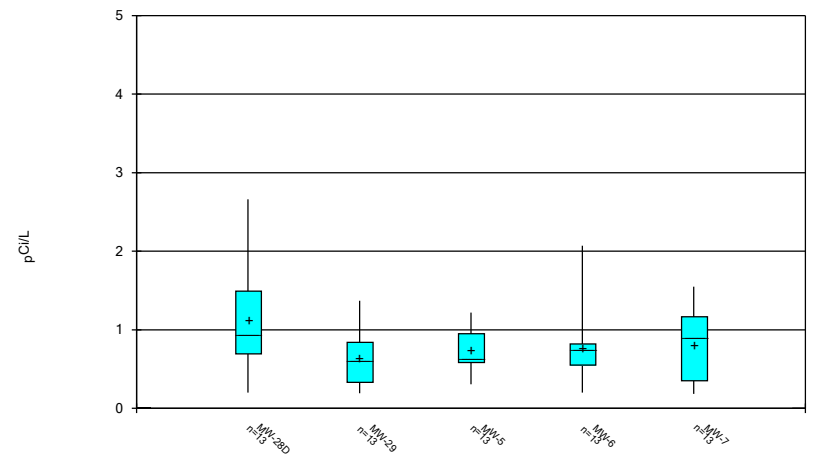
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



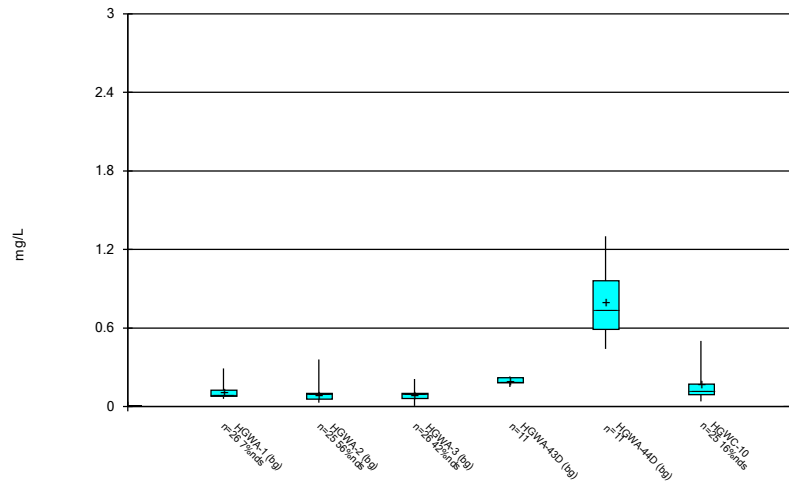
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



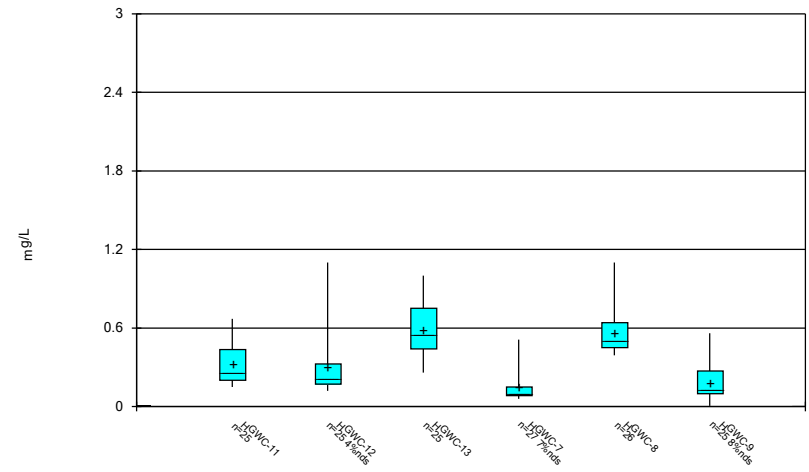
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



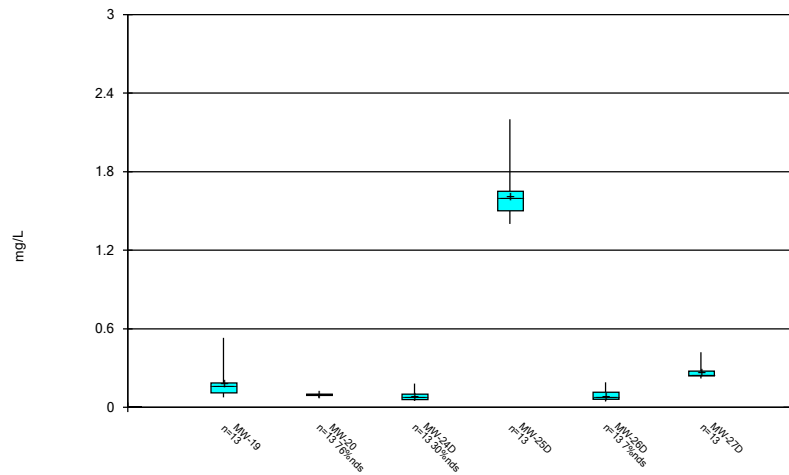
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Box & Whiskers Plot



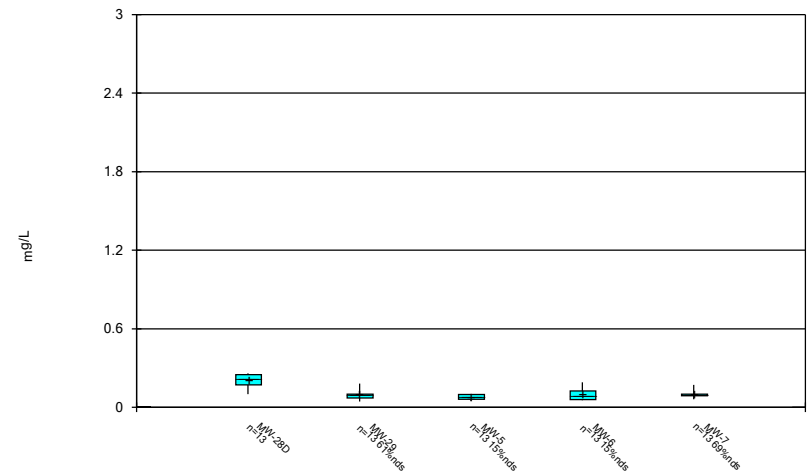
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Box & Whiskers Plot



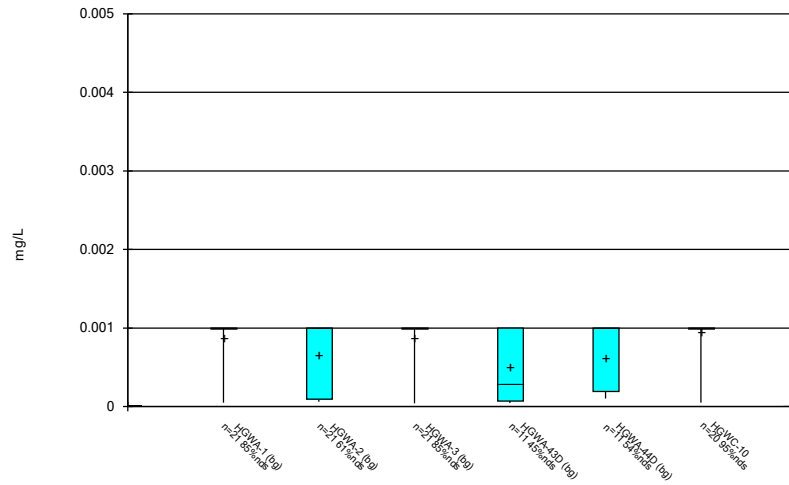
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Box & Whiskers Plot



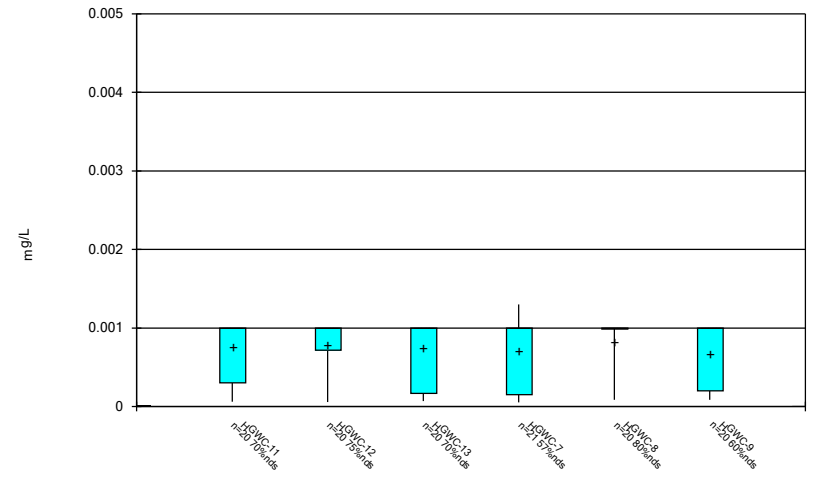
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



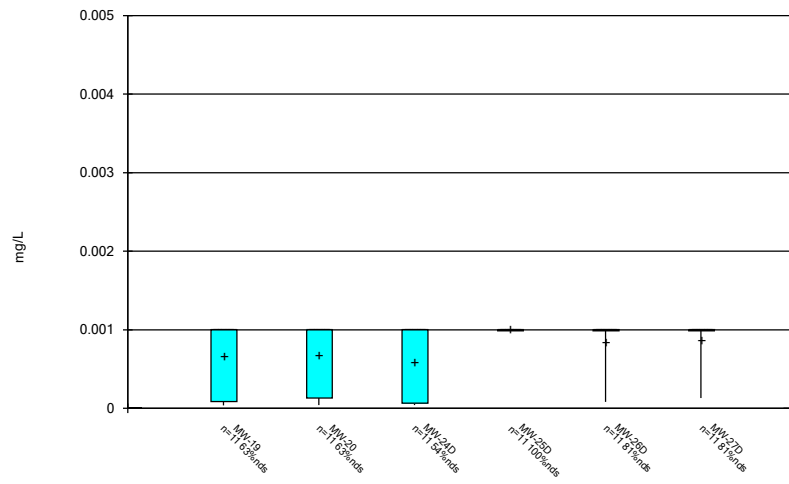
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



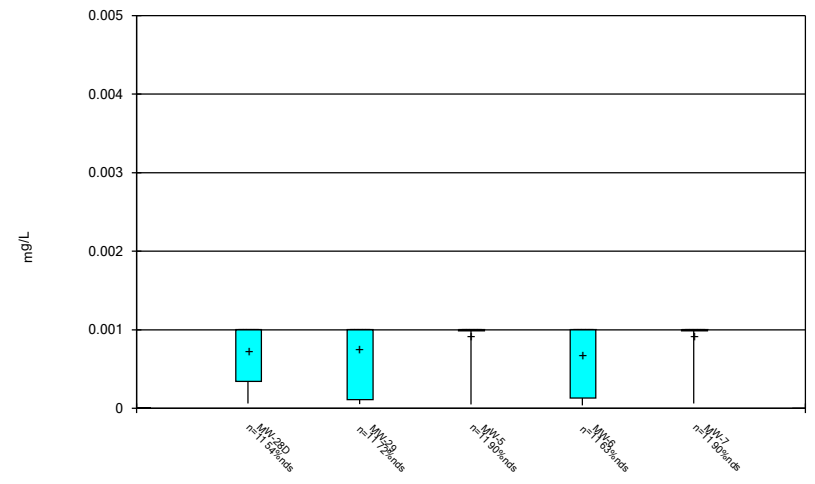
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



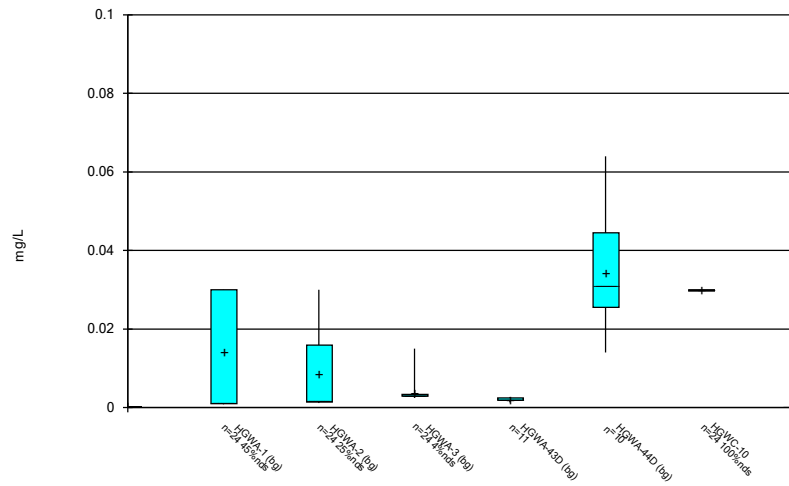
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



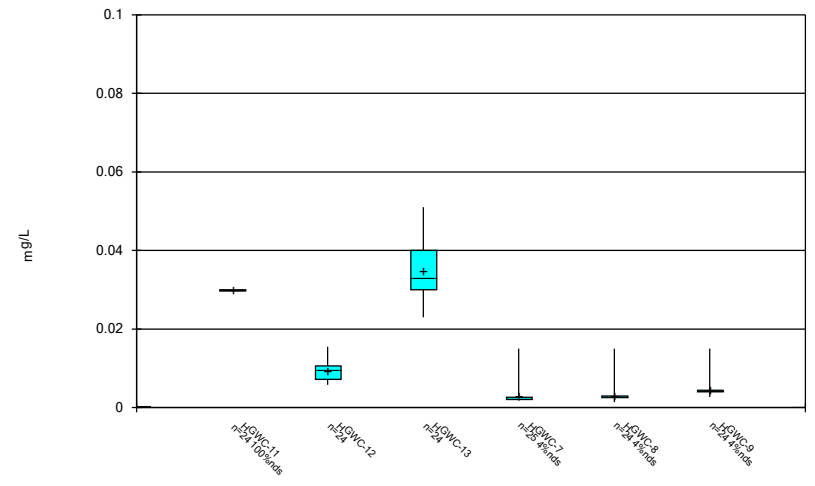
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



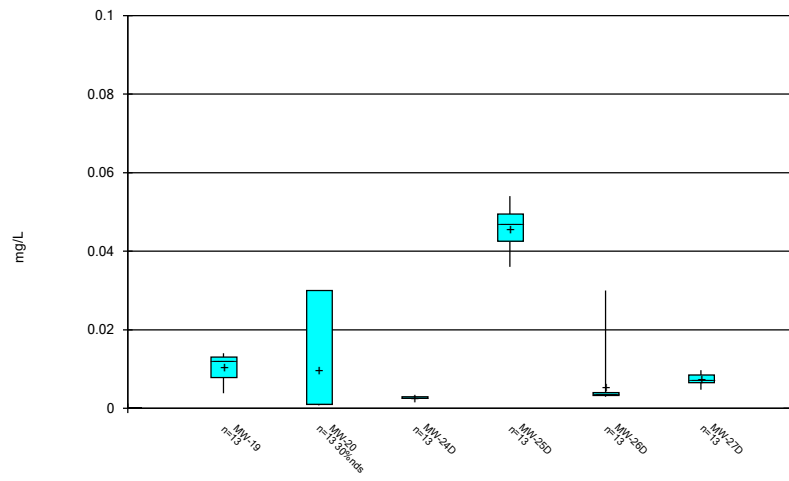
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Box & Whiskers Plot



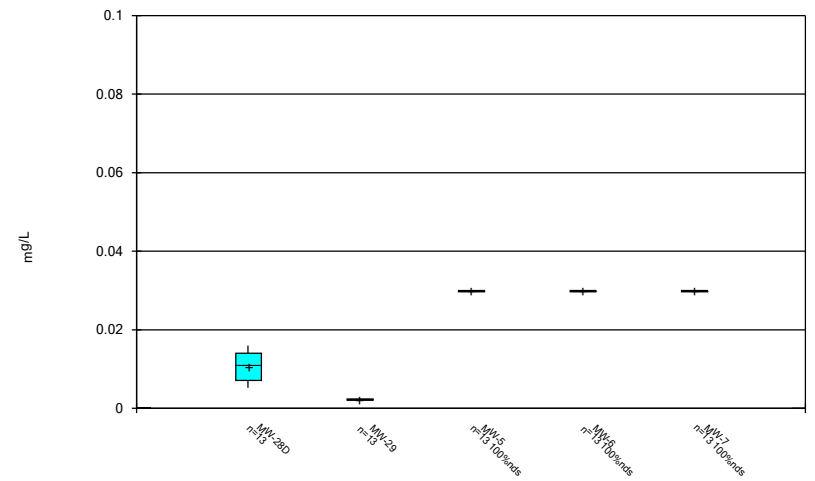
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Box & Whiskers Plot



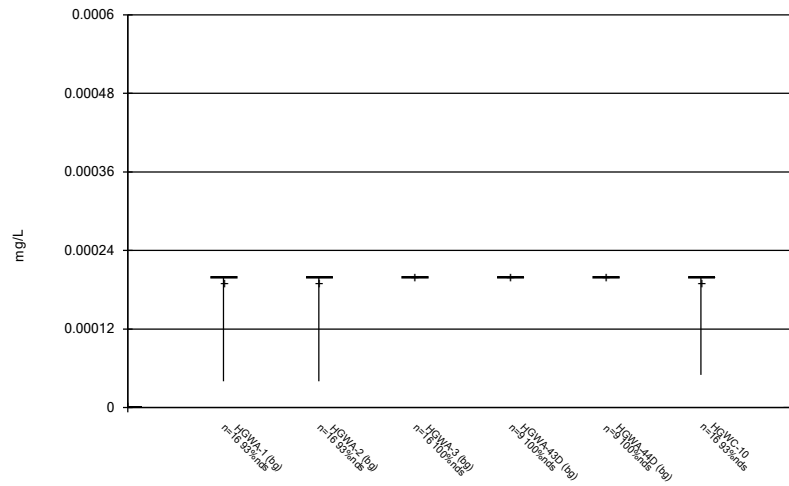
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Box & Whiskers Plot



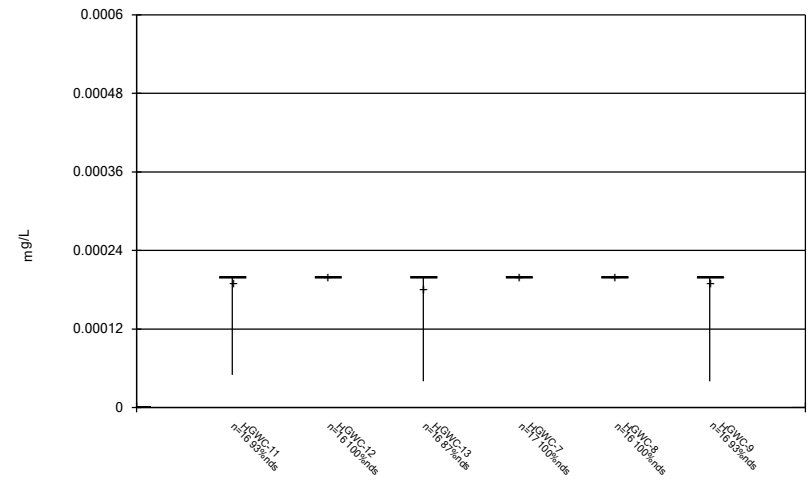
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



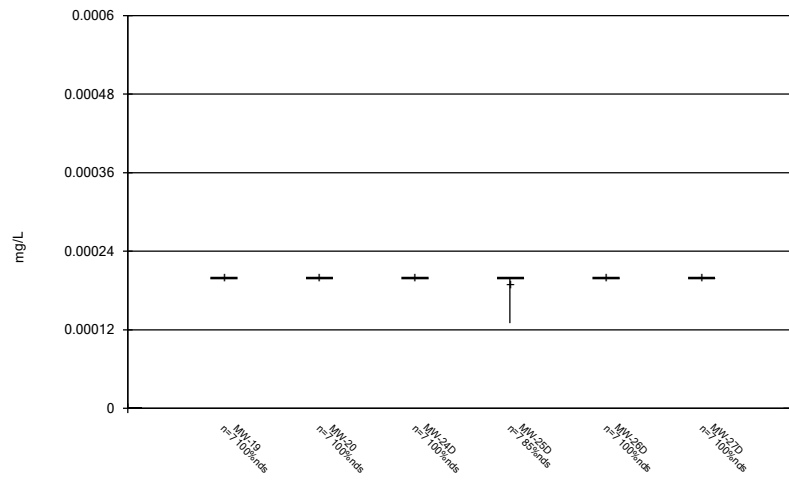
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



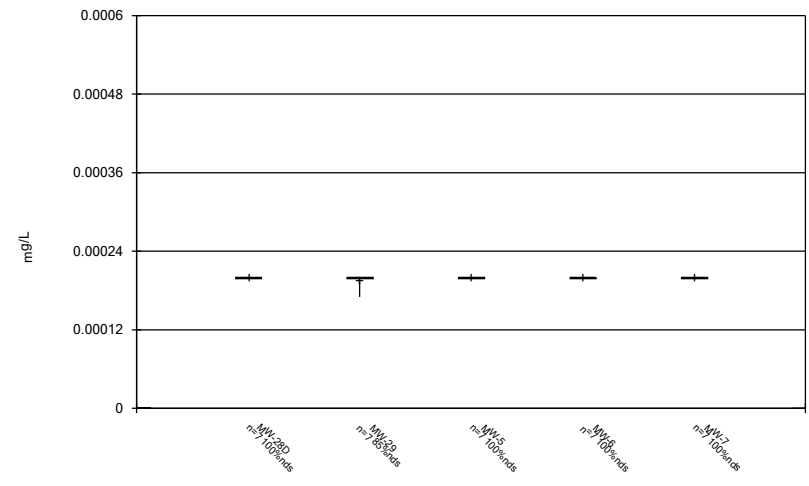
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



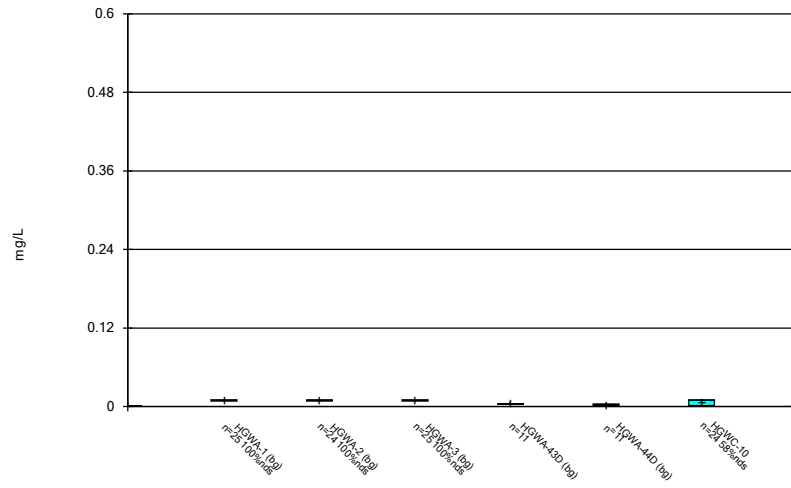
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



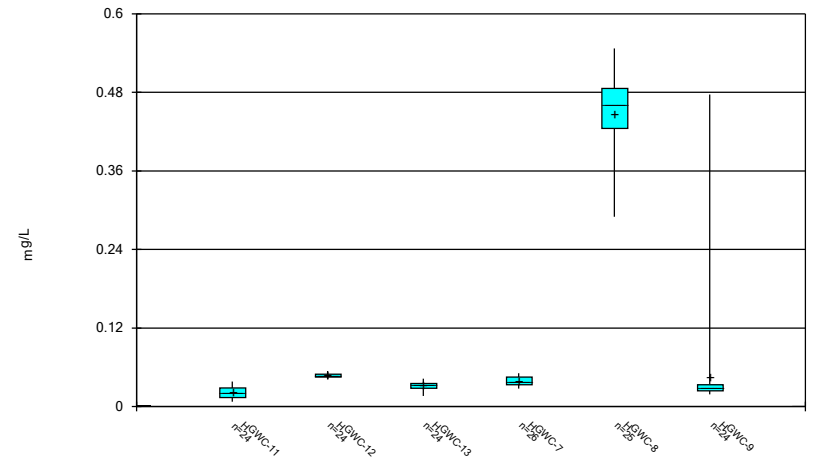
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Box & Whiskers Plot



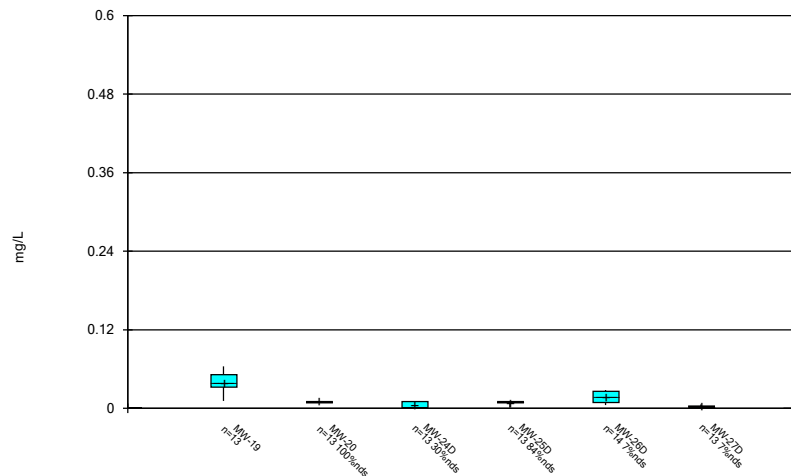
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



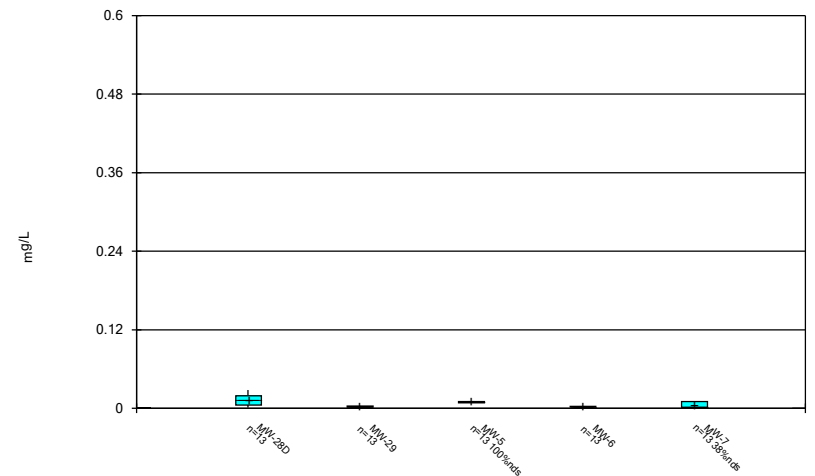
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



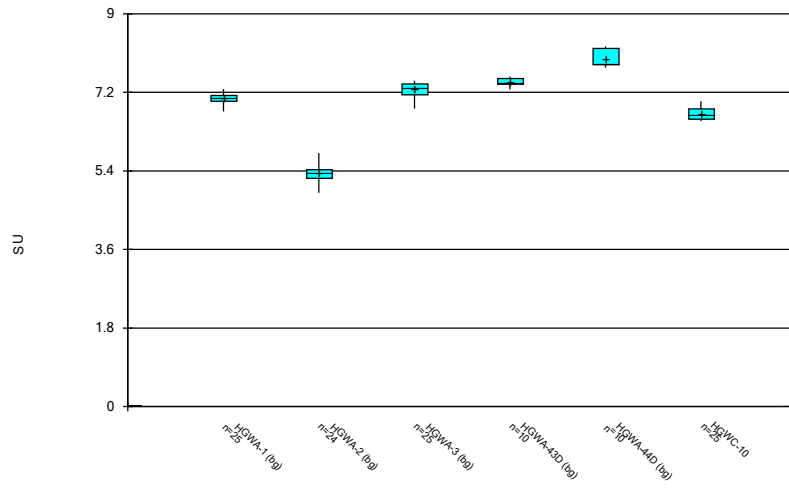
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



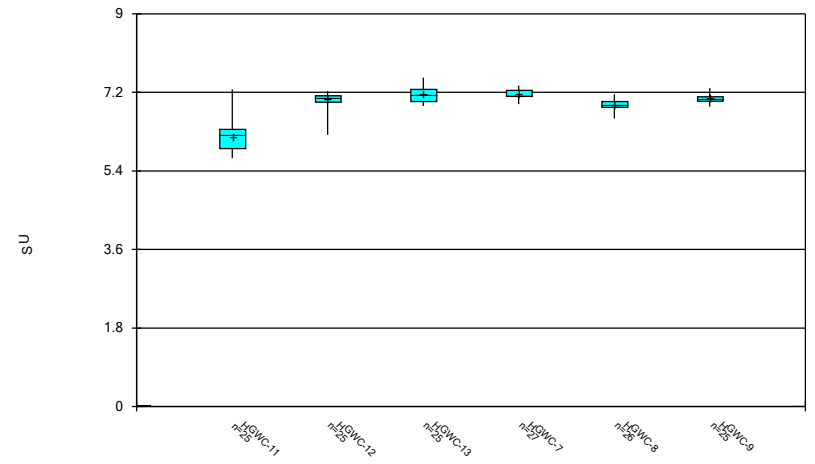
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Box & Whiskers Plot



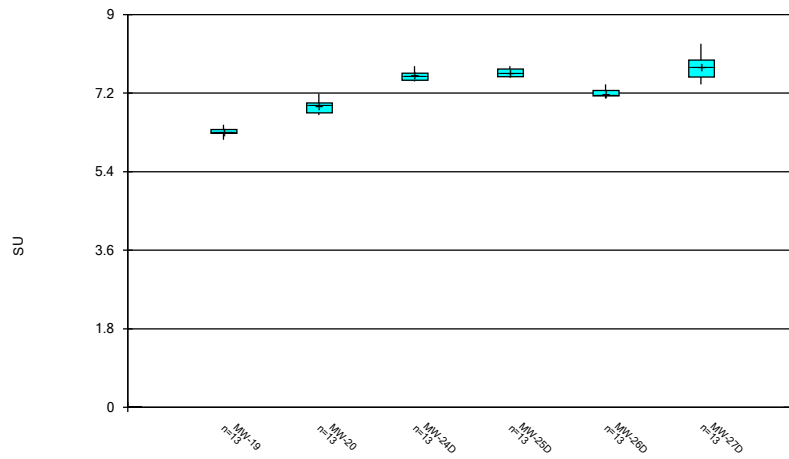
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



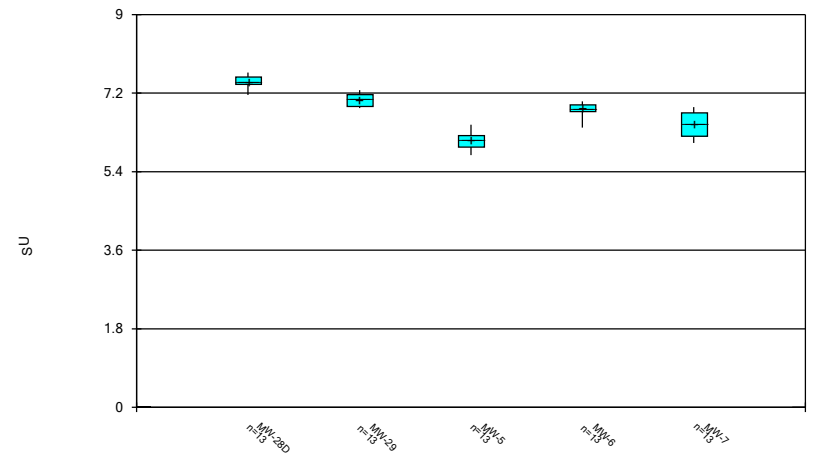
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



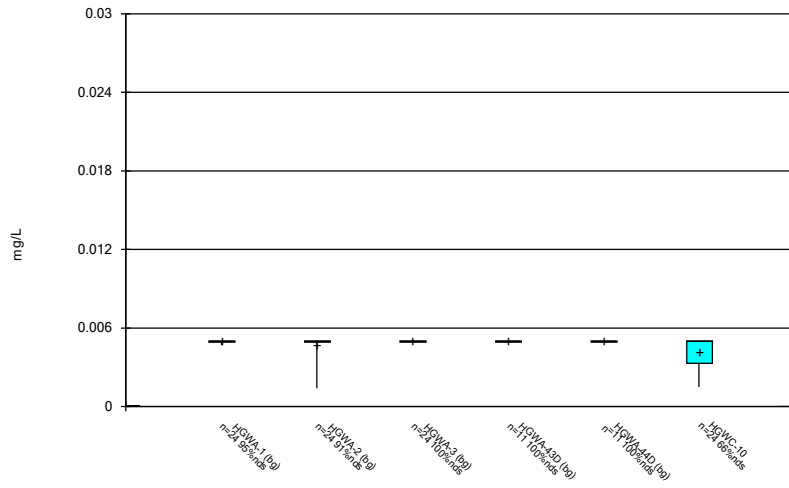
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



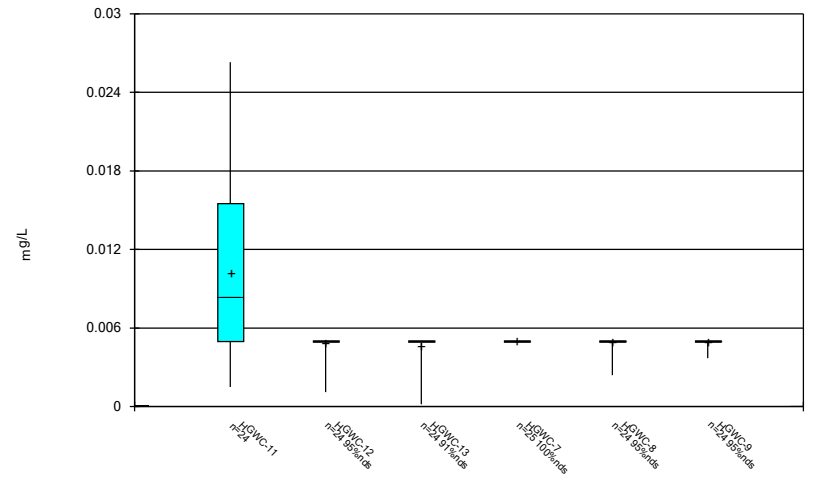
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



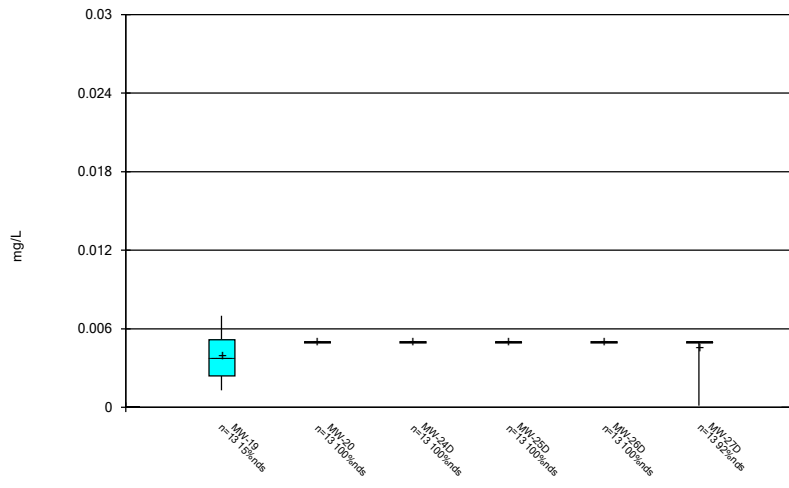
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



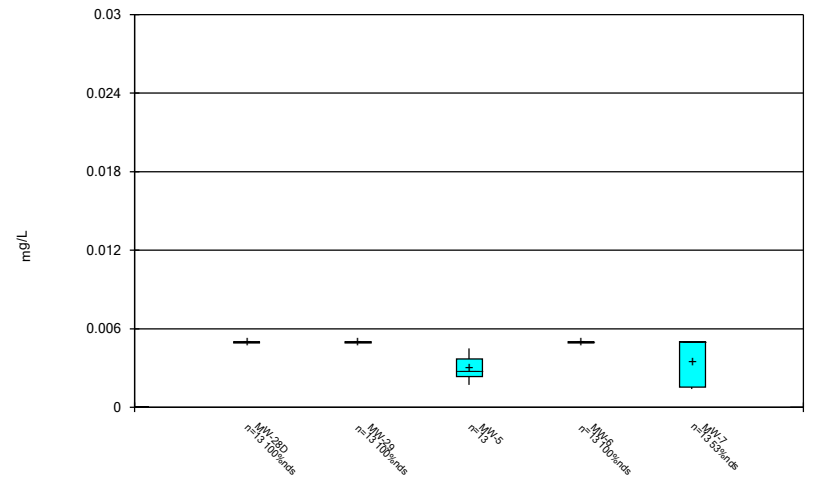
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



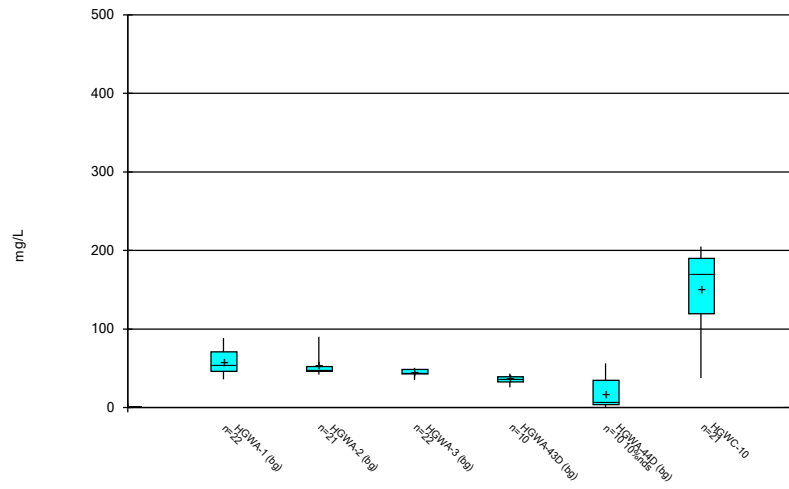
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Box & Whiskers Plot



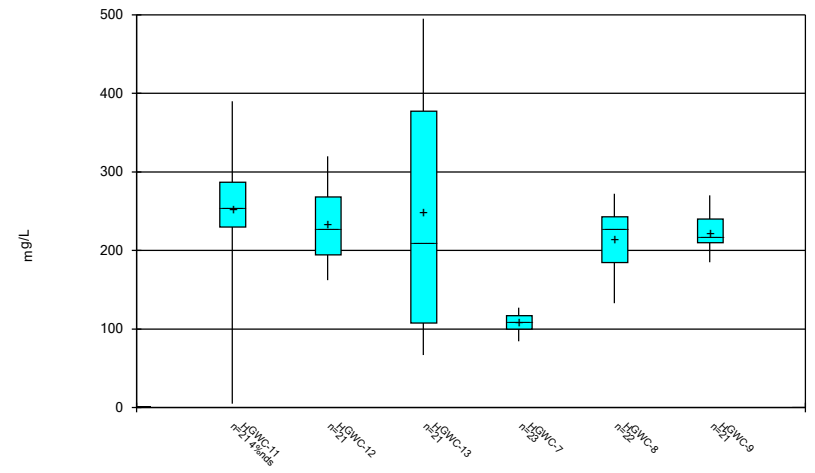
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Box & Whiskers Plot



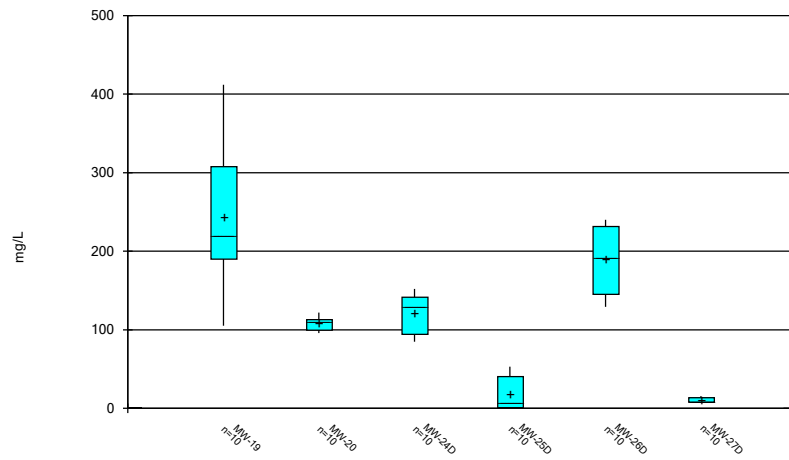
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Box & Whiskers Plot



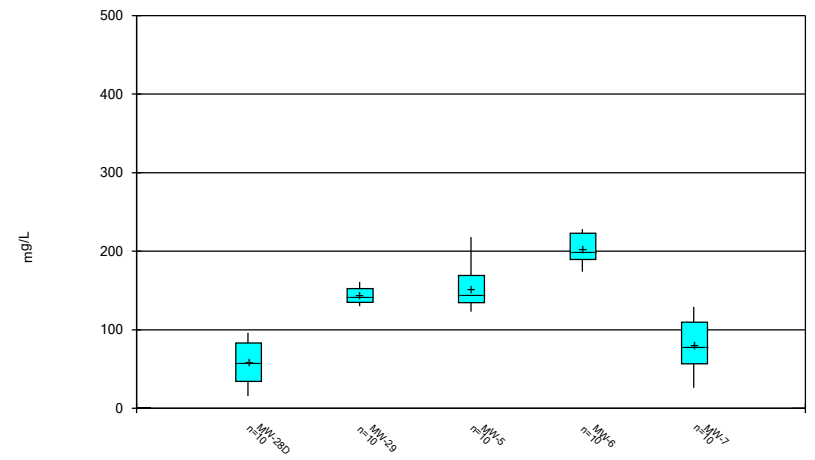
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Box & Whiskers Plot



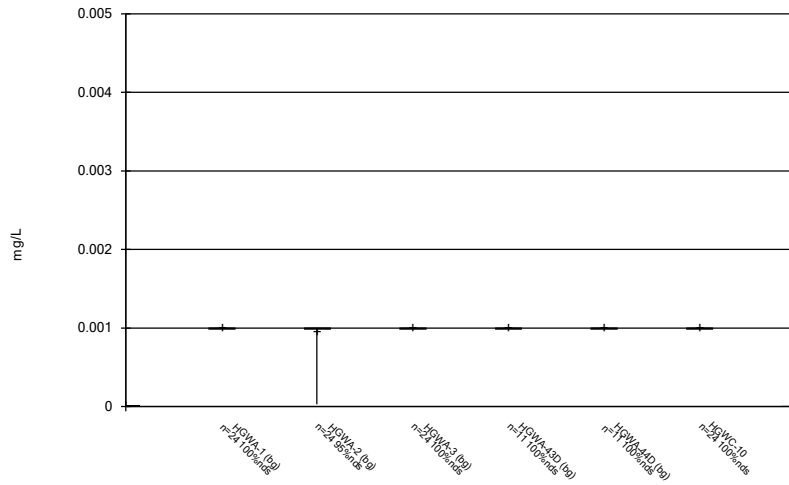
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Box & Whiskers Plot



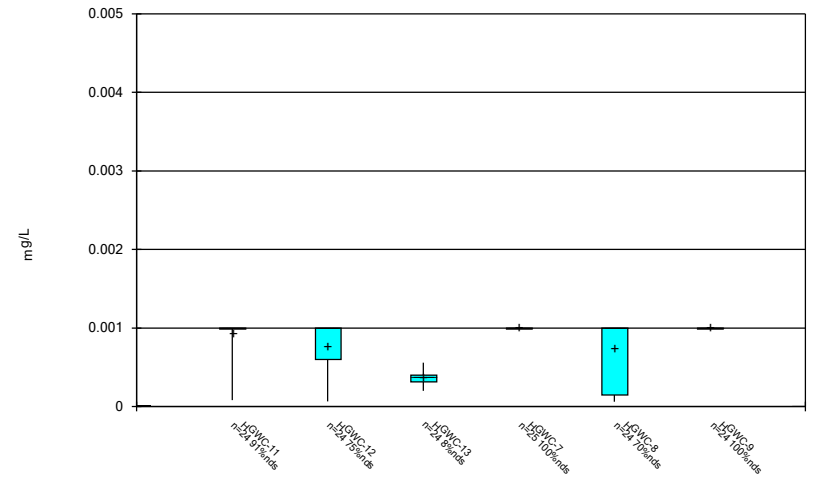
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



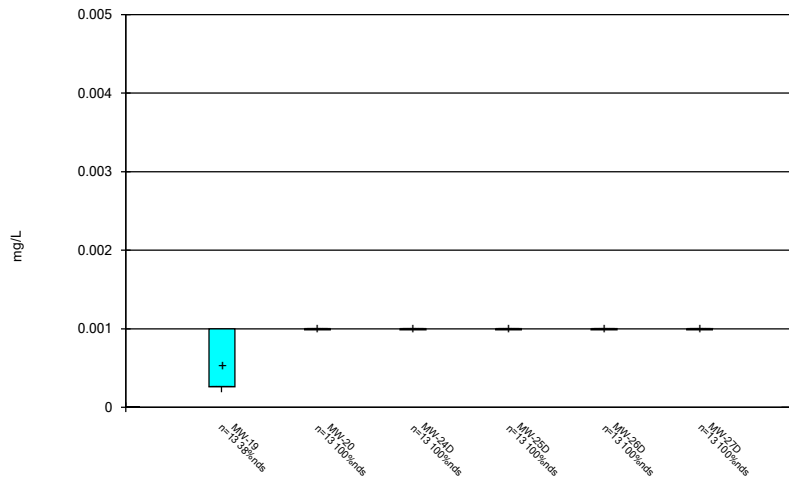
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Box & Whiskers Plot



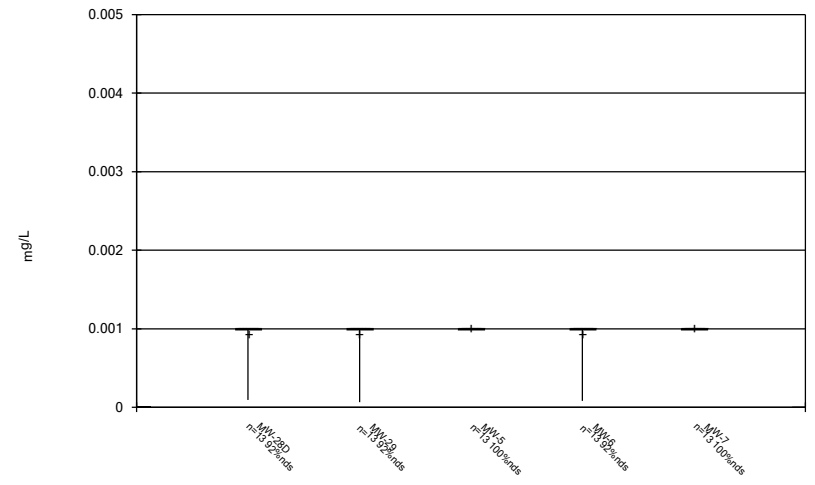
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Box & Whiskers Plot



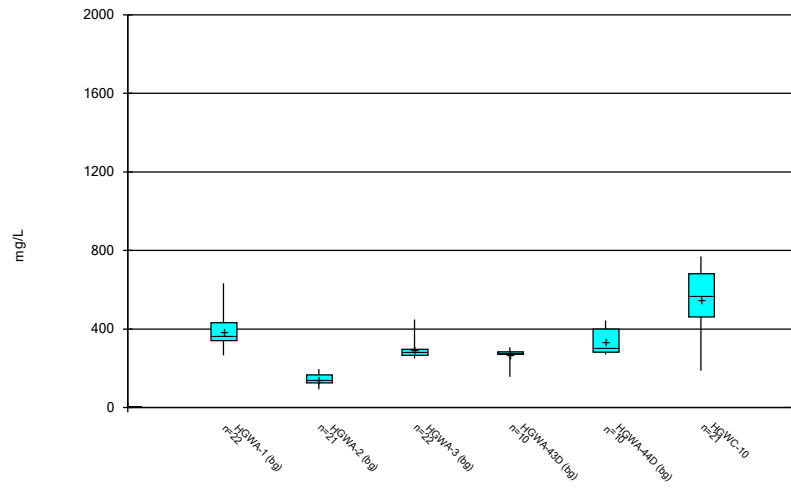
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



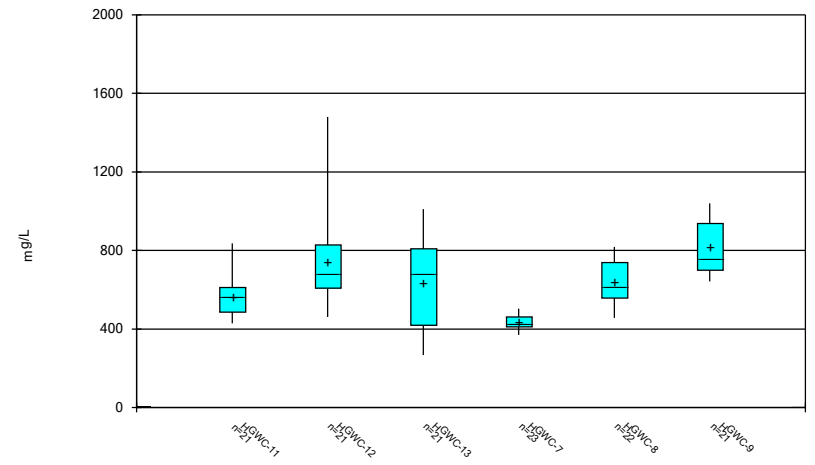
Constituent: Thallium Analysis Run 11/15/2023 12:58 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



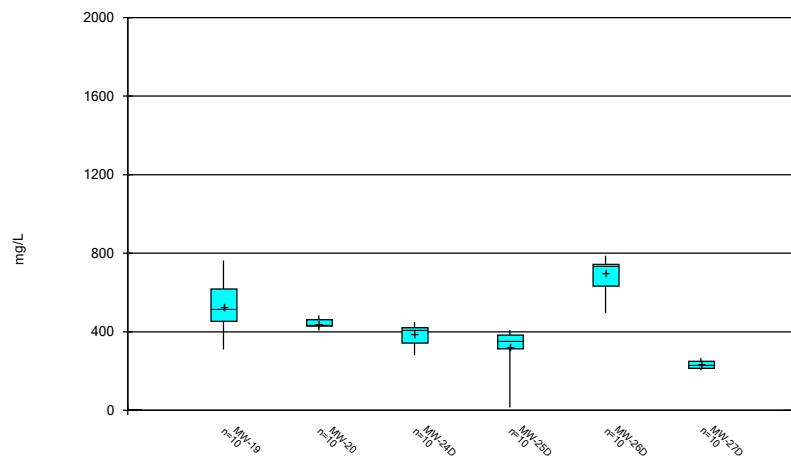
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



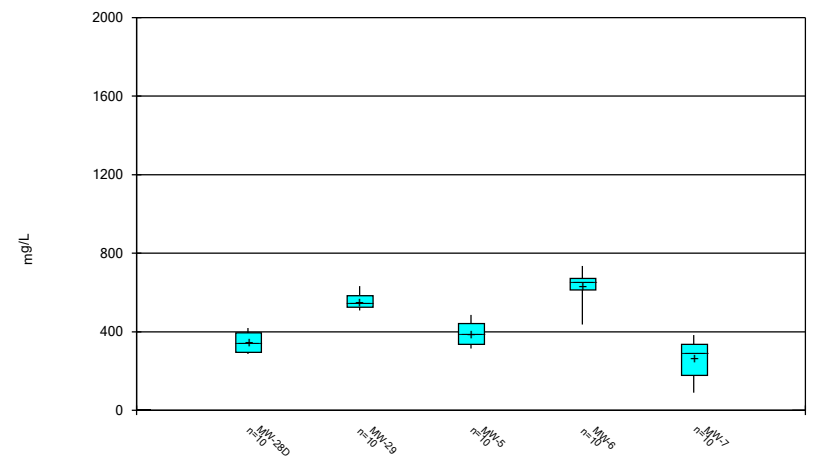
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 11/15/2023 12:58 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 11/15/2023 12:58 PM View: Constituents View
Plant Hammond Client: Southern Company Data: Hammond AP-1

FIGURE C.

Outlier Summary

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/25/2023, 12:14 PM

HGWA-4D Lithium (mg/L)

8/8/2023

0.092 (o)

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/17/2023, 12:59 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------------------|---------|------------|------------|-----------|---------|------|------|---------|-----------|-------|---------|-----------|-----------|-----------------------------|
| Boron (mg/L) | HGWC-10 | 0.55 | n/a | 8/10/2023 | 0.65 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-12 | 0.55 | n/a | 8/10/2023 | 1.4 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-13 | 0.55 | n/a | 8/12/2023 | 1 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-7 | 0.55 | n/a | 8/12/2023 | 0.82 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-8 | 0.55 | n/a | 8/12/2023 | 1.7 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-9 | 0.55 | n/a | 8/11/2023 | 2.1 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-10 | 138 | n/a | 8/10/2023 | 155 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-12 | 138 | n/a | 8/10/2023 | 156 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-13 | 138 | n/a | 8/12/2023 | 172 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-9 | 138 | n/a | 8/11/2023 | 168 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-8 | 44.8 | n/a | 8/12/2023 | 53.1 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-9 | 44.8 | n/a | 8/11/2023 | 78.9 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-10 | 89.9 | n/a | 8/10/2023 | 128 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-11 | 89.9 | n/a | 8/10/2023 | 190 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-12 | 89.9 | n/a | 8/10/2023 | 209 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-13 | 89.9 | n/a | 8/12/2023 | 347 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-8 | 89.9 | n/a | 8/12/2023 | 170 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-9 | 89.9 | n/a | 8/11/2023 | 197 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-12 | 632 | n/a | 8/10/2023 | 683 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-13 | 632 | n/a | 8/12/2023 | 803 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-9 | 632 | n/a | 8/11/2023 | 757 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |

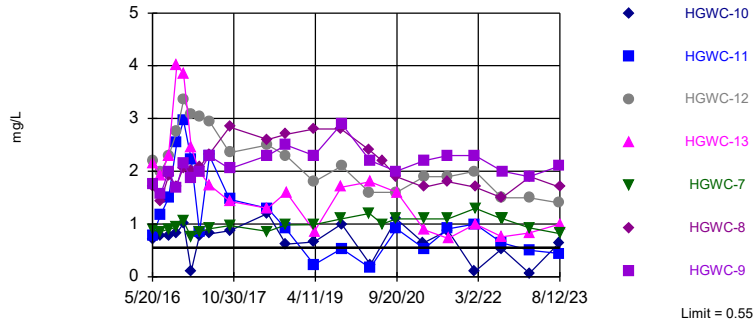
Appendix III Interwell Prediction Limits - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/17/2023, 12:59 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|--------------------------------------|----------------|-------------|------------|------------------|-------------|------------|-----------|------------|------------|--------------|------------|------------|------------------|------------------------------------|
| Boron (mg/L) | HGWC-10 | 0.55 | n/a | 8/10/2023 | 0.65 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-11 | 0.55 | n/a | 8/10/2023 | 0.44 | No | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-12 | 0.55 | n/a | 8/10/2023 | 1.4 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-13 | 0.55 | n/a | 8/12/2023 | 1 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-7 | 0.55 | n/a | 8/12/2023 | 0.82 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-8 | 0.55 | n/a | 8/12/2023 | 1.7 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-9 | 0.55 | n/a | 8/11/2023 | 2.1 | Yes | 85 | n/a | n/a | 4.706 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-10 | 138 | n/a | 8/10/2023 | 155 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-11 | 138 | n/a | 8/10/2023 | 100 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-12 | 138 | n/a | 8/10/2023 | 156 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-13 | 138 | n/a | 8/12/2023 | 172 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-7 | 138 | n/a | 8/12/2023 | 101 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-8 | 138 | n/a | 8/12/2023 | 122 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-9 | 138 | n/a | 8/11/2023 | 168 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-10 | 44.8 | n/a | 8/10/2023 | 13.4 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-11 | 44.8 | n/a | 8/10/2023 | 6.5 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-12 | 44.8 | n/a | 8/10/2023 | 30.6 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-13 | 44.8 | n/a | 8/12/2023 | 15.3 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-7 | 44.8 | n/a | 8/12/2023 | 33.3 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-8 | 44.8 | n/a | 8/12/2023 | 53.1 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-9 | 44.8 | n/a | 8/11/2023 | 78.9 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-10 | 1.3 | n/a | 8/10/2023 | 0.05J | No | 99 | n/a | n/a | 27.27 | n/a | n/a | 0.0001973 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-11 | 1.3 | n/a | 8/10/2023 | 0.15 | No | 99 | n/a | n/a | 27.27 | n/a | n/a | 0.0001973 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-12 | 1.3 | n/a | 8/10/2023 | 0.17 | No | 99 | n/a | n/a | 27.27 | n/a | n/a | 0.0001973 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-13 | 1.3 | n/a | 8/12/2023 | 0.32 | No | 99 | n/a | n/a | 27.27 | n/a | n/a | 0.0001973 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-7 | 1.3 | n/a | 8/12/2023 | 0.071J | No | 99 | n/a | n/a | 27.27 | n/a | n/a | 0.0001973 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-8 | 1.3 | n/a | 8/12/2023 | 0.59 | No | 99 | n/a | n/a | 27.27 | n/a | n/a | 0.0001973 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-9 | 1.3 | n/a | 8/11/2023 | 0.12 | No | 99 | n/a | n/a | 27.27 | n/a | n/a | 0.0001973 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-10 | 8.25 | 4.9 | 8/10/2023 | 6.81 | No | 94 | n/a | n/a | 0 | n/a | n/a | 0.0004389 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-11 | 8.25 | 4.9 | 8/10/2023 | 5.9 | No | 94 | n/a | n/a | 0 | n/a | n/a | 0.0004389 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-12 | 8.25 | 4.9 | 8/10/2023 | 7.08 | No | 94 | n/a | n/a | 0 | n/a | n/a | 0.0004389 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-13 | 8.25 | 4.9 | 8/12/2023 | 6.89 | No | 94 | n/a | n/a | 0 | n/a | n/a | 0.0004389 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-7 | 8.25 | 4.9 | 8/12/2023 | 7.36 | No | 94 | n/a | n/a | 0 | n/a | n/a | 0.0004389 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-8 | 8.25 | 4.9 | 8/12/2023 | 6.84 | No | 94 | n/a | n/a | 0 | n/a | n/a | 0.0004389 | NP Inter (normality) 1 of 2 |
| pH, Field (SU) | HGWC-9 | 8.25 | 4.9 | 8/11/2023 | 7.09 | No | 94 | n/a | n/a | 0 | n/a | n/a | 0.0004389 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-10 | 89.9 | n/a | 8/10/2023 | 128 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-11 | 89.9 | n/a | 8/10/2023 | 190 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-12 | 89.9 | n/a | 8/10/2023 | 209 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-13 | 89.9 | n/a | 8/12/2023 | 347 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-7 | 89.9 | n/a | 8/12/2023 | 84.2 | No | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-8 | 89.9 | n/a | 8/12/2023 | 170 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-9 | 89.9 | n/a | 8/11/2023 | 197 | Yes | 85 | n/a | n/a | 1.176 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-10 | 632 | n/a | 8/10/2023 | 504 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-11 | 632 | n/a | 8/10/2023 | 438 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-12 | 632 | n/a | 8/10/2023 | 683 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-13 | 632 | n/a | 8/12/2023 | 803 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-7 | 632 | n/a | 8/12/2023 | 378 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-8 | 632 | n/a | 8/12/2023 | 564 | No | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-9 | 632 | n/a | 8/11/2023 | 757 | Yes | 85 | n/a | n/a | 0 | n/a | n/a | 0.0002677 | NP Inter (normality) 1 of 2 |

Exceeds Limit: HGWC-10, HGWC-12, HGWC-13, HGWC-7, HGWC-8, HGWC-9

Prediction Limit
Interwell Non-parametric

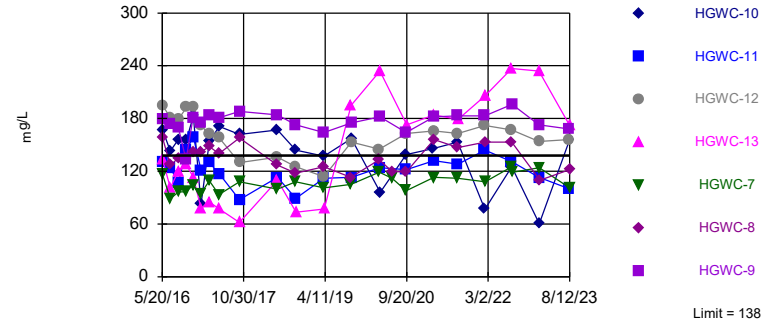


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 85 background values. 4.706% NDs. Annual per-constituent alpha = 0.003742. Individual comparison alpha = 0.0002677 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 10/17/2023 12:57 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

Exceeds Limit: HGWC-10, HGWC-12, HGWC-13, HGWC-9

Prediction Limit
Interwell Non-parametric

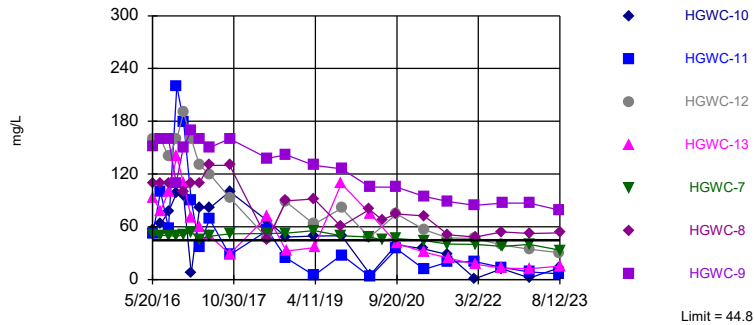


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 85 background values. Annual per-constituent alpha = 0.003742. Individual comparison alpha = 0.0002677 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 10/17/2023 12:57 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

Exceeds Limit: HGWC-8, HGWC-9

Prediction Limit
Interwell Non-parametric



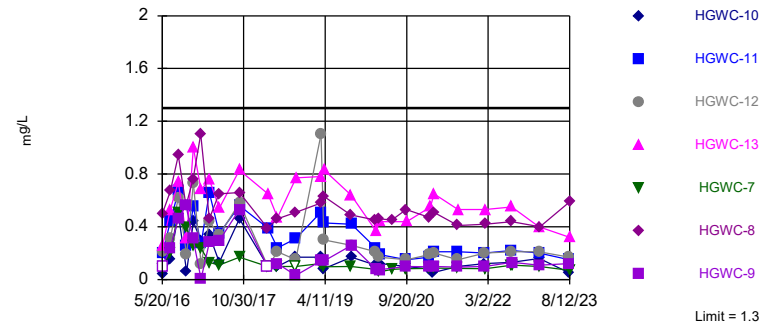
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 85 background values. Annual per-constituent alpha = 0.003742. Individual comparison alpha = 0.0002677 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 10/17/2023 12:57 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric

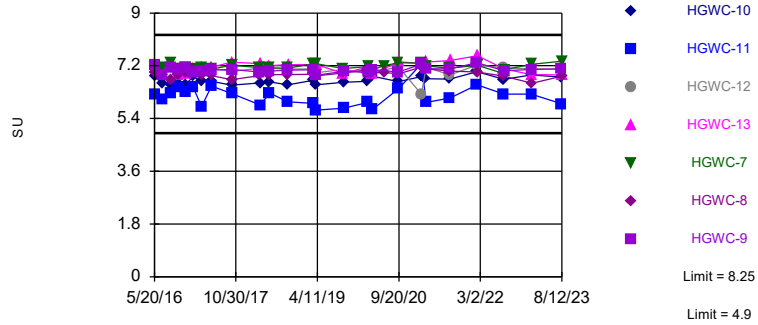


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 99 background values. 27.27% NDs. Annual per-constituent alpha = 0.002759. Individual comparison alpha = 0.0001973 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 10/17/2023 12:57 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

Within Limits

Prediction Limit
Interwell Non-parametric



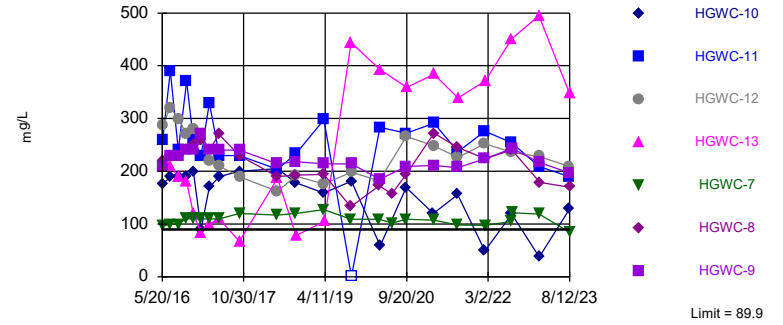
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 94 background values. Annual per-constituent alpha = 0.006135. Individual comparison alpha = 0.0004389 (1 of 2). Comparing 7 points to limit.

Constituent: pH, Field Analysis Run 10/17/2023 12:57 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

Hollow symbols indicate censored values.

Exceeds Limit: HGWC-10, HGWC-11, HGWC-12, HGWC-13, HGWC-8, HGWC-9

Prediction Limit
Interwell Non-parametric

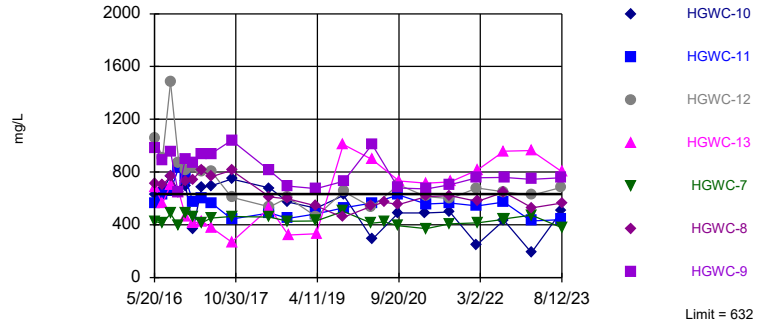


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 85 background values. 1.176% NDs. Annual per-constituent alpha = 0.003742. Individual comparison alpha = 0.0002677 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 10/17/2023 12:57 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

Exceeds Limit: HGWC-12, HGWC-13, HGWC-9

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 85 background values. Annual per-constituent alpha = 0.003742. Individual comparison alpha = 0.0002677 (1 of 2). Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 10/17/2023 12:57 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-11 | HGWC-12 | HGWC-10 | HGWC-13 |
|------------|-------------|-------------|-------------|--------|--------|---------|---------|---------|----------|
| 5/19/2016 | 0.0214 (J) | <0.04 | 0.0321 (J) | | | | | | |
| 5/20/2016 | | | | 0.885 | 1.71 | | | | |
| 5/23/2016 | | | | | | 0.787 | 2.2 | 0.72 | 2.15 |
| 7/11/2016 | 0.0142 (J) | | 0.0337 (J) | | | | | | |
| 7/12/2016 | | 0.0074 (J) | | 0.857 | 1.43 | 1.17 | 1.98 | 0.778 | 1.91 |
| 8/30/2016 | 0.0074 (J) | <0.04 | 0.0173 (J) | | | | | | |
| 9/1/2016 | | | | 0.904 | 1.91 | 1.49 | 2.28 | 0.786 | 2.3 |
| 10/19/2016 | 0.0224 (J) | 0.0085 (J) | 0.0341 (J) | | | | | | |
| 10/20/2016 | | | | 0.936 | 1.72 | | | | |
| 10/24/2016 | | | | | | 2.54 | 2.75 | 0.831 | 4.01 |
| 12/6/2016 | 0.0211 (J) | 0.0085 (J) | 0.0326 (J) | 1.06 | 2.06 | | | | |
| 12/7/2016 | | | | | | 2.96 | 3.35 | 1.01 | 3.85 |
| 1/24/2017 | 0.0165 (J) | 0.01 (J) | 0.0365 (J) | | | | | | |
| 1/25/2017 | | | | 0.764 | 2.01 | | | | |
| 1/26/2017 | | | | | | 2.23 | 3.07 | 0.108 | 2.45 |
| 3/21/2017 | 0.0187 (J) | 0.0079 (J) | 0.0349 (J) | 0.857 | 2.08 | | | | |
| 3/22/2017 | | | | | | 0.84 | 3.04 | 0.788 | 1.99 |
| 5/22/2017 | 0.0782 | 0.0131 (J) | 0.0475 | | | | | | |
| 5/23/2017 | | | | 0.91 | 2.32 | | | | |
| 5/24/2017 | | | | | | 2.29 | 2.95 | 0.814 | 1.74 |
| 10/3/2017 | 0.0198 (J) | 0.0097 (J) | 0.0386 (J) | 0.967 | 2.84 | 1.47 | 2.35 | 0.871 | 1.43 |
| 6/4/2018 | 0.02 (J) | 0.017 (J) | 0.036 (J) | | | | | | |
| 6/5/2018 | | | | 0.86 | | 1.3 | | 1.2 | 1.3 |
| 6/6/2018 | | | | | 2.6 | | 2.5 | | |
| 10/1/2018 | 0.013 (J) | 0.0061 (J) | 0.035 (J) | | | | | | |
| 10/2/2018 | | | | 0.98 | 2.7 | | | 0.62 | |
| 10/3/2018 | | | | | | 0.91 | 2.3 | | |
| 10/5/2018 | | | | | | | | | 1.6 |
| 4/1/2019 | | 0.0066 (J) | | | | | | | |
| 4/2/2019 | 0.016 (J) | | 0.034 (J) | 0.99 | | | | | |
| 4/3/2019 | | | | | 2.8 | 0.23 | 1.8 | 0.66 | |
| 4/5/2019 | | | | | | | | | 0.86 (J) |
| 9/23/2019 | 0.021 (J) | 0.0081 (J) | 0.04 (J) | | | | | | |
| 9/24/2019 | | | | | 2.8 | | | | |
| 9/25/2019 | | | | 1.1 | | | | | |
| 9/26/2019 | | | | | | | | | 1.7 |
| 9/27/2019 | | | | | | 0.53 | 2.1 | 1 | |
| 3/25/2020 | 0.025 (J) | 0.0096 (J) | 0.039 (J) | | | | | | |
| 3/26/2020 | | | | | | | 1.6 | | |
| 3/27/2020 | | | | 1.2 | 2.4 | | | | |
| 3/30/2020 | | | | | | | | | 1.8 |
| 3/31/2020 | | | | | | 0.17 | | | |
| 4/1/2020 | | | | | | | | 0.23 | |
| 6/16/2020 | 0.021 (J) | 0.01 (J) | | | 2.2 | | | | |
| 6/17/2020 | | | | 1 | | | | | |
| 9/15/2020 | 0.017 (J) | 0.0071 (J) | 0.044 (J) | | | | | | |
| 9/16/2020 | | | | 1.1 | 1.9 | | | 1.1 | |
| 9/17/2020 | | | | | | | | | |
| 9/18/2020 | | | | | | 0.91 | 1.6 | | |
| 9/21/2020 | | | | | | | | | 1.6 |
| 11/10/2020 | | | | | | | | | |
| 12/15/2020 | | | | | | | | | |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-11 | HGWC-12 | HGWC-10 | HGWC-13 |
|-----------|-------------|-------------|-------------|--------|--------|---------|---------|---------|---------|
| 1/19/2021 | | | | | | | | | |
| 3/10/2021 | 0.015 (J) | | | | | | | | |
| 3/11/2021 | | 0.015 (J) | 0.056 | | | | | | |
| 3/12/2021 | | | | | | | | 0.64 | |
| 3/15/2021 | | | | 1.1 | 1.7 | | | | |
| 3/16/2021 | | | | | | 0.53 | 1.9 | | |
| 3/17/2021 | | | | | | | | | 0.89 |
| 8/11/2021 | 0.02 (J) | | | | | | | | |
| 8/12/2021 | | <0.04 | 0.044 | | | | | | |
| 8/13/2021 | | | | | | | | | |
| 8/16/2021 | | | | 1.1 | | | | | |
| 8/17/2021 | | | | | | | | 0.88 | |
| 8/18/2021 | | | | | 1.8 | 0.91 | 1.9 | | |
| 8/19/2021 | | | | | | | | | 0.73 |
| 2/1/2022 | 0.016 (J) | 0.011 (J) | 0.056 | | | | | | |
| 2/9/2022 | | | | | | 1 | 2 | 0.1 | |
| 2/10/2022 | | | | 1.3 | 1.7 | | | | 1 |
| 8/2/2022 | 0.012 (J) | <0.04 | 0.047 | | | | | | |
| 8/3/2022 | | | | 1.1 | 1.5 | 0.64 | 1.5 | 0.53 | 0.76 |
| 8/4/2022 | | | | | | | | | |
| 8/11/2022 | | | | 1.1 | | | | | |
| 1/23/2023 | | 0.012 (J) | | | | | | | |
| 1/24/2023 | 0.015 (J) | | 0.046 | | | | | | |
| 1/26/2023 | | | | | | 0.5 | 1.5 | | 0.83 |
| 1/27/2023 | | | | 0.93 | | | | 0.065 | |
| 2/1/2023 | | | | | 1.9 | | | | |
| 8/8/2023 | 0.023 (J) | 0.011 (J) | 0.06 | | | | | | |
| 8/10/2023 | | | | | | 0.44 | 1.4 | 0.65 | |
| 8/11/2023 | | | | | | | | | |
| 8/12/2023 | | | | 0.82 | 1.7 | | | | 1 |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | HGWA-44D (bg) | HGWA-43D (bg) |
|------------|--------|---------------|---------------|
| 5/19/2016 | | | |
| 5/20/2016 | | | |
| 5/23/2016 | 1.76 | | |
| 7/11/2016 | | | |
| 7/12/2016 | 1.56 | | |
| 8/30/2016 | | | |
| 9/1/2016 | 2 | | |
| 10/19/2016 | | | |
| 10/20/2016 | 1.68 | | |
| 10/24/2016 | | | |
| 12/6/2016 | 2.15 | | |
| 12/7/2016 | | | |
| 1/24/2017 | | | |
| 1/25/2017 | | | |
| 1/26/2017 | 1.87 | | |
| 3/21/2017 | | | |
| 3/22/2017 | 1.99 | | |
| 5/22/2017 | | | |
| 5/23/2017 | 2.29 | | |
| 5/24/2017 | | | |
| 10/3/2017 | 2.05 | | |
| 6/4/2018 | | | |
| 6/5/2018 | | | |
| 6/6/2018 | 2.3 | | |
| 10/1/2018 | | | |
| 10/2/2018 | 2.5 | | |
| 10/3/2018 | | | |
| 10/5/2018 | | | |
| 4/1/2019 | | | |
| 4/2/2019 | | | |
| 4/3/2019 | 2.3 | | |
| 4/5/2019 | | | |
| 9/23/2019 | | | |
| 9/24/2019 | | | |
| 9/25/2019 | | | |
| 9/26/2019 | | | |
| 9/27/2019 | 2.9 | | |
| 3/25/2020 | | | |
| 3/26/2020 | | | |
| 3/27/2020 | | | |
| 3/30/2020 | | | |
| 3/31/2020 | 2.2 | | |
| 4/1/2020 | | | |
| 6/16/2020 | | | |
| 6/17/2020 | | | |
| 9/15/2020 | | | |
| 9/16/2020 | | 0.23 | 0.061 (J) |
| 9/17/2020 | 2 | | |
| 9/18/2020 | | | |
| 9/21/2020 | | | |
| 11/10/2020 | | 0.29 | 0.057 (J) |
| 12/15/2020 | | 0.31 | 0.052 (J) |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | HGWA-44D (bg) | HGWA-43D (bg) |
|-----------|--------|---------------|---------------|
| 1/19/2021 | | 0.4 | 0.049 (J) |
| 3/10/2021 | | 0.39 | |
| 3/11/2021 | | | 0.06 |
| 3/12/2021 | | | |
| 3/15/2021 | | | |
| 3/16/2021 | 2.2 | | |
| 3/17/2021 | | | |
| 8/11/2021 | | | 0.042 |
| 8/12/2021 | | | |
| 8/13/2021 | | 0.31 | |
| 8/16/2021 | | | |
| 8/17/2021 | 2.3 | | |
| 8/18/2021 | | | |
| 8/19/2021 | | | |
| 2/1/2022 | | 0.44 | 0.05 |
| 2/9/2022 | 2.3 | | |
| 2/10/2022 | | | |
| 8/2/2022 | | 0.31 | 0.043 |
| 8/3/2022 | | | |
| 8/4/2022 | 2 | | |
| 8/11/2022 | | | |
| 1/23/2023 | | | |
| 1/24/2023 | | 0.44 | 0.037 (J) |
| 1/26/2023 | 1.9 | | |
| 1/27/2023 | | | |
| 2/1/2023 | | | |
| 8/8/2023 | | 0.55 | 0.038 (J) |
| 8/10/2023 | | | |
| 8/11/2023 | 2.1 | | |
| 8/12/2023 | | | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-11 | HGWC-12 | HGWC-10 | HGWC-13 |
|-----------|-------------|-------------|-------------|--------|--------|---------|---------|----------|---------|
| 1/19/2021 | | | | | | | | | |
| 3/10/2021 | 111 | | | | | | | | |
| 3/11/2021 | | 83.8 | 43.8 | | | | | | |
| 3/12/2021 | | | | | | | | 146 (M1) | |
| 3/15/2021 | | | | 113 | 156 | | | | |
| 3/16/2021 | | | | | | 132 | 166 | | |
| 3/17/2021 | | | | | | | | | 184 |
| 8/11/2021 | 113 | | | | | | | | |
| 8/12/2021 | | 84 | 21.9 | | | | | | |
| 8/13/2021 | | | | | | | | | |
| 8/16/2021 | | | | 112 | | | | | |
| 8/17/2021 | | | | | | | | 153 | |
| 8/18/2021 | | | | | 147 | 128 | 163 | | |
| 8/19/2021 | | | | | | | | | 179 |
| 2/1/2022 | 106 | 85.1 | 27.2 | | | | | | |
| 2/9/2022 | | | | | | 144 | 172 | 76.8 | |
| 2/10/2022 | | | | 108 | 153 | | | | 206 |
| 8/2/2022 | 117 | 84.6 | 31.2 | | | | | | |
| 8/3/2022 | | | | 125 | 153 | 131 | 167 | 125 | 237 |
| 8/4/2022 | | | | | | | | | |
| 8/11/2022 | | | | 119 | | | | | |
| 1/23/2023 | | 85 | | | | | | | |
| 1/24/2023 | 117 | | 29.4 | | | | | | |
| 1/26/2023 | | | | | | 113 | 154 | | 234 |
| 1/27/2023 | | | | 124 | | | | 60.4 | |
| 2/1/2023 | | | | | 110 | | | | |
| 8/8/2023 | 118 | 78.3 | 30.7 | | | | | | |
| 8/10/2023 | | | | | | 100 | 156 | 155 | |
| 8/11/2023 | | | | | | | | | |
| 8/12/2023 | | | | 101 | 122 | | | | 172 |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | HGWA-44D (bg) | HGWA-43D (bg) |
|------------|--------|---------------|---------------|
| 5/19/2016 | | | |
| 5/20/2016 | | | |
| 5/23/2016 | 179 | | |
| 7/11/2016 | | | |
| 7/12/2016 | 174 | | |
| 8/30/2016 | | | |
| 9/1/2016 | 170 | | |
| 10/19/2016 | | | |
| 10/20/2016 | 133 | | |
| 10/24/2016 | | | |
| 12/6/2016 | 181 | | |
| 12/7/2016 | | | |
| 1/24/2017 | | | |
| 1/25/2017 | | | |
| 1/26/2017 | 175 | | |
| 3/21/2017 | | | |
| 3/22/2017 | 183 | | |
| 5/22/2017 | | | |
| 5/23/2017 | 181 | | |
| 5/24/2017 | | | |
| 10/3/2017 | 188 | | |
| 6/4/2018 | | | |
| 6/5/2018 | | | |
| 6/6/2018 | 184 | | |
| 10/1/2018 | | | |
| 10/2/2018 | 173 | | |
| 10/3/2018 | | | |
| 10/5/2018 | | | |
| 4/1/2019 | | | |
| 4/2/2019 | | | |
| 4/3/2019 | 164 | | |
| 4/5/2019 | | | |
| 9/23/2019 | | | |
| 9/24/2019 | | | |
| 9/25/2019 | | | |
| 9/26/2019 | | | |
| 9/27/2019 | 175 | | |
| 3/25/2020 | | | |
| 3/26/2020 | | | |
| 3/27/2020 | | | |
| 3/30/2020 | | | |
| 3/31/2020 | 182 | | |
| 4/1/2020 | | | |
| 6/16/2020 | | | |
| 6/17/2020 | | | |
| 9/15/2020 | | | |
| 9/16/2020 | | 30 | 56 |
| 9/17/2020 | 164 | | |
| 9/18/2020 | | | |
| 9/21/2020 | | | |
| 11/10/2020 | | 33.6 | 63.3 |
| 12/15/2020 | | 28.7 | 62.6 |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | HGWA-44D (bg) | HGWA-43D (bg) |
|-----------|--------|---------------|---------------|
| 1/19/2021 | | 33 | 60.1 |
| 3/10/2021 | | 5.9 | |
| 3/11/2021 | | | 59.6 |
| 3/12/2021 | | | |
| 3/15/2021 | | | |
| 3/16/2021 | 182 | | |
| 3/17/2021 | | | |
| 8/11/2021 | | | 61 |
| 8/12/2021 | | | |
| 8/13/2021 | | 28.9 | |
| 8/16/2021 | | | |
| 8/17/2021 | 183 | | |
| 8/18/2021 | | | |
| 8/19/2021 | | | |
| 2/1/2022 | | 24.8 | 55.9 |
| 2/9/2022 | 183 | | |
| 2/10/2022 | | | |
| 8/2/2022 | | 20.9 | 54.1 |
| 8/3/2022 | | | |
| 8/4/2022 | 196 | | |
| 8/11/2022 | | | |
| 1/23/2023 | | | |
| 1/24/2023 | | 13.2 | 56.6 |
| 1/26/2023 | 173 | | |
| 1/27/2023 | | | |
| 2/1/2023 | | | |
| 8/8/2023 | | 8.1 | 52.8 |
| 8/10/2023 | | | |
| 8/11/2023 | 168 | | |
| 8/12/2023 | | | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-11 | HGWC-12 | HGWC-10 | HGWC-13 |
|-----------|-------------|-------------|-------------|--------|--------|---------|---------|---------|---------|
| 1/19/2021 | | | | | | | | | |
| 3/10/2021 | 7.4 | | | | | | | | |
| 3/11/2021 | | 5.9 | 5.1 | | | | | | |
| 3/12/2021 | | | | | | | | 35 | |
| 3/15/2021 | | | | 44.5 | 72.4 | | | | |
| 3/16/2021 | | | | | | 11.5 | 56.8 | | |
| 3/17/2021 | | | | | | | | | 31.4 |
| 8/11/2021 | 9.6 | | | | | | | | |
| 8/12/2021 | | 4.8 | 5.2 | | | | | | |
| 8/13/2021 | | | | | | | | | |
| 8/16/2021 | | | | 40.3 | | | | | |
| 8/17/2021 | | | | | | | | 28.3 | |
| 8/18/2021 | | | | | 50.9 | 19.9 | 47.3 | | |
| 8/19/2021 | | | | | | | | | 24.4 |
| 2/1/2022 | 7.5 | 5.7 | 7 | | | | | | |
| 2/9/2022 | | | | | | 20.4 | 46.8 | 1.2 | |
| 2/10/2022 | | | | 39.8 | 48.2 | | | | 17.4 |
| 8/2/2022 | 14.1 | 5.9 | 7.8 | | | | | | |
| 8/3/2022 | | | | 37.9 | 54.1 | 13.8 | 39.2 | 12.3 | 13 |
| 8/4/2022 | | | | | | | | | |
| 8/11/2022 | | | | 37.7 | | | | | |
| 1/23/2023 | | 5.6 | | | | | | | |
| 1/24/2023 | 9 | | 7.1 | | | | | | |
| 1/26/2023 | | | | | | 8.8 | 34.6 | | 12.5 |
| 1/27/2023 | | | | 40 | | | | 1.6 | |
| 2/1/2023 | | | | | 52.4 | | | | |
| 8/8/2023 | 26 | 5.3 | 6.6 | | | | | | |
| 8/10/2023 | | | | | | 6.5 | 30.6 | 13.4 | |
| 8/11/2023 | | | | | | | | | |
| 8/12/2023 | | | | 33.3 | 53.1 | | | | 15.3 |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | HGWA-44D (bg) | HGWA-43D (bg) |
|------------|--------|---------------|---------------|
| 5/19/2016 | | | |
| 5/20/2016 | | | |
| 5/23/2016 | 152 | | |
| 7/11/2016 | | | |
| 7/12/2016 | 160 | | |
| 8/30/2016 | | | |
| 9/1/2016 | 160 | | |
| 10/19/2016 | | | |
| 10/20/2016 | 110 | | |
| 10/24/2016 | | | |
| 12/6/2016 | 150 | | |
| 12/7/2016 | | | |
| 1/24/2017 | | | |
| 1/25/2017 | | | |
| 1/26/2017 | 170 | | |
| 3/21/2017 | | | |
| 3/22/2017 | 160 | | |
| 5/22/2017 | | | |
| 5/23/2017 | 150 | | |
| 5/24/2017 | | | |
| 10/3/2017 | 160 | | |
| 6/4/2018 | | | |
| 6/5/2018 | | | |
| 6/6/2018 | 138 | | |
| 10/1/2018 | | | |
| 10/2/2018 | 142 | | |
| 10/3/2018 | | | |
| 10/5/2018 | | | |
| 4/1/2019 | | | |
| 4/2/2019 | | | |
| 4/3/2019 | 130 | | |
| 4/5/2019 | | | |
| 9/23/2019 | | | |
| 9/24/2019 | | | |
| 9/25/2019 | | | |
| 9/26/2019 | | | |
| 9/27/2019 | 126 | | |
| 3/25/2020 | | | |
| 3/26/2020 | | | |
| 3/27/2020 | | | |
| 3/30/2020 | | | |
| 3/31/2020 | 105 | | |
| 4/1/2020 | | | |
| 6/16/2020 | | | |
| 6/17/2020 | | | |
| 9/15/2020 | | | |
| 9/16/2020 | | 7.2 | 4.1 |
| 9/17/2020 | 105 | | |
| 9/18/2020 | | | |
| 9/21/2020 | | | |
| 11/10/2020 | | 7.8 | 4.4 |
| 12/15/2020 | | 9.4 | 4.7 |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | HGWA-44D (bg) | HGWA-43D (bg) |
|-----------|--------|---------------|---------------|
| 1/19/2021 | | 9.5 | 4.1 |
| 3/10/2021 | | 12.3 | |
| 3/11/2021 | | | 4.5 |
| 3/12/2021 | | | |
| 3/15/2021 | | | |
| 3/16/2021 | 94.7 | | |
| 3/17/2021 | | | |
| 8/11/2021 | | | 3.5 |
| 8/12/2021 | | | |
| 8/13/2021 | | 39.9 | |
| 8/16/2021 | | | |
| 8/17/2021 | 88.6 | | |
| 8/18/2021 | | | |
| 8/19/2021 | | | |
| 2/1/2022 | | 44.8 | 4.1 |
| 2/9/2022 | 84.4 | | |
| 2/10/2022 | | | |
| 8/2/2022 | | 19.8 | 4.3 |
| 8/3/2022 | | | |
| 8/4/2022 | 86.8 | | |
| 8/11/2022 | | | |
| 1/23/2023 | | | |
| 1/24/2023 | | 24.9 | 4.3 |
| 1/26/2023 | 86.9 | | |
| 1/27/2023 | | | |
| 2/1/2023 | | | |
| 8/8/2023 | | 27 | 3.5 |
| 8/10/2023 | | | |
| 8/11/2023 | 78.9 | | |
| 8/12/2023 | | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-11 | HGWC-13 | HGWC-10 | HGWC-9 |
|------------|-------------|-------------|-------------|------------|--------|-----------|------------|------------|-----------|
| 5/19/2016 | 0.105 (J) | 0.0513 (J) | 0.0303 (J) | | | | | | |
| 5/20/2016 | | | | 0.0828 (J) | 0.499 | | | | |
| 5/23/2016 | | | | | | 0.203 (J) | 0.2587 (J) | 0.0394 (J) | <0.1 |
| 7/11/2016 | 0.16 (J) | | 0.05 (J) | | | | | | |
| 7/12/2016 | | 0.12 (J) | | 0.2 (J) | 0.67 | 0.44 | 0.53 | 0.15 (J) | 0.24 (J) |
| 8/30/2016 | 0.09 (J) | 0.09 (J) | 0.06 (J) | | | | | | |
| 9/1/2016 | | | | 0.51 | 0.94 | 0.67 | 0.74 | 0.5 | 0.46 |
| 10/19/2016 | 0.1 (J) | 0.1 (J) | 0.04 (J) | | | | | | |
| 10/20/2016 | | | | 0.4 | 0.56 | | | | 0.56 |
| 10/24/2016 | | | | | | 0.26 (J) | 0.31 | 0.06 (J) | |
| 12/6/2016 | 0.11 (J) | 0.21 (J) | 0.36 | 0.26 (J) | 0.76 | | | | 0.31 |
| 12/7/2016 | | | | | | 0.55 | 1 | 0.44 | |
| 1/24/2017 | 0.09 (J) | 0.06 (J) | <0.1 | | | | | | |
| 1/25/2017 | | | | 0.24 (J) | 1.1 | | | | |
| 1/26/2017 | | | | | | 0.27 (J) | 0.68 | 0.29 (J) | 0.004 (J) |
| 3/21/2017 | 0.13 (J) | 0.005 (J) | <0.1 | 0.13 (J) | 0.46 | | | | |
| 3/22/2017 | | | | | | 0.66 | 0.76 | 0.34 | 0.28 (J) |
| 5/22/2017 | 0.12 (J) | 0.05 (J) | <0.1 | | | | | | |
| 5/23/2017 | | | | 0.11 (J) | 0.65 | | | | 0.29 (J) |
| 5/24/2017 | | | | | | 0.35 | 0.54 | 0.13 (J) | |
| 10/3/2017 | 0.13 (J) | 0.13 (J) | <0.1 | 0.17 (J) | 0.66 | 0.56 | 0.83 | 0.46 | 0.53 |
| 4/2/2018 | <0.1 | | <0.1 | | | | | | |
| 4/3/2018 | | <0.1 | | <0.1 | 0.39 | | | | <0.1 |
| 4/4/2018 | | | | | | 0.39 | 0.65 | <0.1 | |
| 6/4/2018 | 0.074 (J) | <0.1 | <0.1 | | | | | | |
| 6/5/2018 | | | | 0.099 (J) | | 0.24 (J) | 0.47 | <0.1 | |
| 6/6/2018 | | | | | 0.46 | | | | 0.12 (J) |
| 10/1/2018 | <0.1 | <0.1 | <0.1 | | | | | | |
| 10/2/2018 | | | | <0.1 | 0.51 | | | 0.17 (J) | 0.031 (J) |
| 10/3/2018 | | | | | | 0.31 | | | |
| 10/5/2018 | | | | | | | 0.77 | | |
| 3/12/2019 | 0.29 (J) | 0.072 (J) | 0.038 (J) | | 0.58 | | | | |
| 3/13/2019 | | | | 0.12 (J) | | 0.51 | 0.78 | 0.17 (J) | 0.14 (J) |
| 3/14/2019 | | | | | | | | | |
| 4/1/2019 | | 0.029 (J) | | | | | | | |
| 4/2/2019 | 0.1 (J) | | 0.071 (J) | 0.097 (J) | | | | | |
| 4/3/2019 | | | | | 0.63 | 0.43 | | 0.082 (J) | 0.14 (J) |
| 4/5/2019 | | | | | | | 0.83 | | |
| 9/23/2019 | 0.078 (J) | <0.1 | <0.1 | | | | | | |
| 9/24/2019 | | | | | 0.49 | | | | |
| 9/25/2019 | | | | 0.1 (J) | | | | | |
| 9/26/2019 | | | | | | | 0.64 | | |
| 9/27/2019 | | | | | | 0.42 | | 0.17 (J) | 0.26 (J) |
| 3/2/2020 | 0.076 (J) | <0.1 | <0.1 | | | | | | |
| 3/3/2020 | | | | | 0.45 | 0.24 (J) | | 0.11 (J) | |
| 3/4/2020 | | | | 0.077 (J) | | | 0.37 | | 0.08 (J) |
| 3/25/2020 | 0.098 (J) | <0.1 | <0.1 | | | | | | |
| 3/26/2020 | | | | | | | | | |
| 3/27/2020 | | | | 0.059 (J) | 0.46 | | | | |
| 3/30/2020 | | | | | | | 0.44 | | |
| 3/31/2020 | | | | | | 0.19 (J) | | | 0.074 (J) |
| 4/1/2020 | | | | | | | | 0.12 (J) | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-11 | HGWC-13 | HGWC-10 | HGWC-9 |
|------------|-------------|-------------|-------------|-----------|--------|---------|---------|-----------|-----------|
| 6/16/2020 | 0.071 (J) | <0.1 | | | 0.45 | | | | |
| 6/17/2020 | | | | 0.077 (J) | | | | | |
| 9/15/2020 | 0.082 (J) | <0.1 | <0.1 | | | | | | |
| 9/16/2020 | | | | 0.081 (J) | 0.53 | | | <0.1 | |
| 9/17/2020 | | | | | | | | | 0.1 |
| 9/18/2020 | | | | | | 0.15 | | | |
| 9/21/2020 | | | | | | | 0.44 | | |
| 11/10/2020 | | | | | | | | | |
| 12/15/2020 | | | | | | | | | |
| 1/19/2021 | | | | | | | | | |
| 2/8/2021 | 0.078 (J) | | | | | | | | |
| 2/9/2021 | | 0.074 (J) | <0.1 | | | | | | |
| 2/10/2021 | | | | 0.085 (J) | | | | | |
| 2/12/2021 | | | | | | 0.17 | | | |
| 2/15/2021 | | | | | | | | 0.08 (J) | |
| 2/16/2021 | | | | | 0.47 | | | | 0.096 (J) |
| 2/22/2021 | | | | | | | 0.55 | | |
| 3/10/2021 | 0.079 (J) | | | | | | | | |
| 3/11/2021 | | <0.1 | 0.1 | | | | | | |
| 3/12/2021 | | | | | | | | 0.054 (J) | |
| 3/15/2021 | | | | 0.086 (J) | 0.51 | | | | |
| 3/16/2021 | | | | | | 0.21 | | | 0.098 (J) |
| 3/17/2021 | | | | | | | 0.65 | | |
| 8/11/2021 | 0.058 (J) | | | | | | | | |
| 8/12/2021 | | <0.1 | <0.1 | | | | | | |
| 8/13/2021 | | | | | | | | | |
| 8/16/2021 | | | | 0.084 (J) | | | | | |
| 8/17/2021 | | | | | | | | <0.1 | 0.095 (J) |
| 8/18/2021 | | | | | 0.41 | 0.21 | | | |
| 8/19/2021 | | | | | | | 0.53 | | |
| 2/1/2022 | 0.064 (J) | <0.1 | <0.1 | | | | | | |
| 2/9/2022 | | | | | | 0.2 | | 0.12 | 0.1 |
| 2/10/2022 | | | | 0.083 (J) | 0.42 | | 0.53 | | |
| 8/2/2022 | 0.09 (J) | 0.067 (J) | 0.053 (J) | | | | | | |
| 8/3/2022 | | | | 0.11 | 0.44 | 0.22 | 0.55 | 0.13 | |
| 8/4/2022 | | | | | | | | | 0.13 |
| 8/11/2022 | | | | 0.11 | | | | | |
| 1/23/2023 | | 0.061 (J) | | | | | | | |
| 1/24/2023 | 0.089 (J) | | 0.053 (J) | | | | | | |
| 1/26/2023 | | | | | | 0.2 | 0.4 | | 0.11 |
| 1/27/2023 | | | | 0.1 | | | | 0.16 | |
| 2/1/2023 | | | | | 0.4 | | | | |
| 8/8/2023 | 0.088 (J) | 0.055 (J) | 0.07 (J) | | | | | | |
| 8/10/2023 | | | | | | 0.15 | | 0.05 (J) | |
| 8/11/2023 | | | | | | | | | 0.12 |
| 8/12/2023 | | | | 0.071 (J) | 0.59 | | 0.32 | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-12 | HGWA-43D (bg) | HGWA-44D (bg) |
|------------|-----------|---------------|---------------|
| 5/19/2016 | | | |
| 5/20/2016 | | | |
| 5/23/2016 | 0.212 (J) | | |
| 7/11/2016 | | | |
| 7/12/2016 | 0.31 | | |
| 8/30/2016 | | | |
| 9/1/2016 | 0.62 | | |
| 10/19/2016 | | | |
| 10/20/2016 | | | |
| 10/24/2016 | 0.19 (J) | | |
| 12/6/2016 | | | |
| 12/7/2016 | 0.73 | | |
| 1/24/2017 | | | |
| 1/25/2017 | | | |
| 1/26/2017 | 0.12 (J) | | |
| 3/21/2017 | | | |
| 3/22/2017 | 0.44 | | |
| 5/22/2017 | | | |
| 5/23/2017 | | | |
| 5/24/2017 | 0.34 | | |
| 10/3/2017 | 0.58 | | |
| 4/2/2018 | | | |
| 4/3/2018 | | | |
| 4/4/2018 | <0.1 | | |
| 6/4/2018 | | | |
| 6/5/2018 | | | |
| 6/6/2018 | 0.21 (J) | | |
| 10/1/2018 | | | |
| 10/2/2018 | | | |
| 10/3/2018 | 0.15 (J) | | |
| 10/5/2018 | | | |
| 3/12/2019 | | | |
| 3/13/2019 | | | |
| 3/14/2019 | 1.1 | | |
| 4/1/2019 | | | |
| 4/2/2019 | | | |
| 4/3/2019 | 0.3 (J) | | |
| 4/5/2019 | | | |
| 9/23/2019 | | | |
| 9/24/2019 | | | |
| 9/25/2019 | | | |
| 9/26/2019 | | | |
| 9/27/2019 | 0.26 (J) | | |
| 3/2/2020 | | | |
| 3/3/2020 | 0.21 (J) | | |
| 3/4/2020 | | | |
| 3/25/2020 | | | |
| 3/26/2020 | 0.17 (J) | | |
| 3/27/2020 | | | |
| 3/30/2020 | | | |
| 3/31/2020 | | | |
| 4/1/2020 | | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-12 | HGWA-43D (bg) | HGWA-44D (bg) |
|------------|---------|---------------|---------------|
| 6/16/2020 | | | |
| 6/17/2020 | | | |
| 9/15/2020 | | | |
| 9/16/2020 | | 0.22 | 0.52 |
| 9/17/2020 | | | |
| 9/18/2020 | 0.15 | | |
| 9/21/2020 | | | |
| 11/10/2020 | | 0.19 | 0.59 |
| 12/15/2020 | | 0.21 | 0.67 |
| 1/19/2021 | | 0.16 | 0.74 |
| 2/8/2021 | | | |
| 2/9/2021 | | 0.19 | 0.44 |
| 2/10/2021 | | | |
| 2/12/2021 | 0.19 | | |
| 2/15/2021 | | | |
| 2/16/2021 | | | |
| 2/22/2021 | | | |
| 3/10/2021 | | | 0.65 |
| 3/11/2021 | | 0.2 | |
| 3/12/2021 | | | |
| 3/15/2021 | | | |
| 3/16/2021 | 0.2 | | |
| 3/17/2021 | | | |
| 8/11/2021 | | 0.15 | |
| 8/12/2021 | | | |
| 8/13/2021 | | | 0.87 |
| 8/16/2021 | | | |
| 8/17/2021 | | | |
| 8/18/2021 | 0.15 | | |
| 8/19/2021 | | | |
| 2/1/2022 | | 0.19 | 0.96 |
| 2/9/2022 | 0.2 | | |
| 2/10/2022 | | | |
| 8/2/2022 | | 0.22 | 0.8 |
| 8/3/2022 | 0.21 | | |
| 8/4/2022 | | | |
| 8/11/2022 | | | |
| 1/23/2023 | | | |
| 1/24/2023 | | 0.23 | 1.3 |
| 1/26/2023 | 0.21 | | |
| 1/27/2023 | | | |
| 2/1/2023 | | | |
| 8/8/2023 | | 0.18 | 1.3 |
| 8/10/2023 | 0.17 | | |
| 8/11/2023 | | | |
| 8/12/2023 | | | |

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 10/17/2023 12:59 PM View: Appendix III
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-12 | HGWC-11 | HGWC-10 | HGWC-9 |
|------------|-------------|-------------|-------------|---------|----------|---------|---------|---------|--------|
| 6/16/2020 | 6.97 (D) | 7.31 (D) | | | 6.97 (D) | | | | |
| 6/17/2020 | | | | 7.2 (D) | | | | | |
| 9/15/2020 | 7.15 | 7.29 | 5.22 | | | | | | |
| 9/16/2020 | | | | 7.3 | 6.92 | | | 6.66 | |
| 9/17/2020 | | | | | | | | | 6.99 |
| 9/18/2020 | | | | | | 7.15 | 6.42 | | |
| 9/21/2020 | | | | | | | | | |
| 11/10/2020 | | | | | | | | | |
| 12/15/2020 | | | | | | | | | |
| 1/19/2021 | | | | | | | | | |
| 2/8/2021 | 7.11 | | | | | | | | |
| 2/9/2021 | | 7.23 | 5.42 | | | | | | |
| 2/10/2021 | | | | 7.29 | | | | | |
| 2/12/2021 | | | | | | 6.23 | 7.27 | | |
| 2/15/2021 | | | | | | | | 6.83 | |
| 2/16/2021 | | | | | 7.16 | | | | 7.26 |
| 2/22/2021 | | | | | | | | | |
| 3/10/2021 | 6.95 | | | | | | | | |
| 3/11/2021 | | 7.33 | 5.8 | | | | | | |
| 3/12/2021 | | | | | | | | 6.76 | |
| 3/15/2021 | | | | 7.19 | 7.09 | | | | |
| 3/16/2021 | | | | | | 7.15 | 5.95 | | 7.1 |
| 3/17/2021 | | | | | | | | | |
| 8/11/2021 | 6.98 | | | | | | | | |
| 8/12/2021 | | 7.31 | 5.05 | | | | | | |
| 8/13/2021 | | | | | | | | | |
| 8/16/2021 | | | | 7.12 | | | | | |
| 8/17/2021 | | | | | | | | 6.75 | 7.1 |
| 8/18/2021 | | | | | 7.02 | 6.89 | 6.1 | | |
| 8/19/2021 | | | | | | | | | |
| 2/1/2022 | 7.19 | 7.45 | 5.24 | | | | | | |
| 2/9/2022 | | | | | | 7.23 | 6.55 | 7 | 7.3 |
| 2/10/2022 | | | | 7.22 | 6.99 | | | | |
| 8/3/2022 | | | | 6.93 | 6.84 | 7.13 | 6.23 | 6.73 | |
| 8/4/2022 | | | | | | | | | 7.03 |
| 8/11/2022 | | | | 7.07 | | | | | |
| 1/23/2023 | | 7.32 | | | | | | | |
| 1/24/2023 | 6.76 | | 5.22 | | | | | | |
| 1/26/2023 | | | | | | 7.1 | 6.23 | | 7.07 |
| 1/27/2023 | | | | 7.25 | | | | 6.89 | |
| 2/1/2023 | | | | | 6.6 | | | | |
| 8/8/2023 | 7.05 | 7.42 | 5.01 | | | | | | |
| 8/10/2023 | | | | | | 7.08 | 5.9 | 6.81 | |
| 8/11/2023 | | | | | | | | | 7.09 |
| 8/12/2023 | | | | 7.36 | 6.84 | | | | |

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 10/17/2023 12:59 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-13 | HGWA-43D (bg) | HGWA-44D (bg) |
|------------|---------|---------------|---------------|
| 5/19/2016 | | | |
| 5/20/2016 | | | |
| 5/23/2016 | 7.14 | | |
| 7/11/2016 | | | |
| 7/12/2016 | 7.04 | | |
| 8/30/2016 | | | |
| 9/1/2016 | 7.24 | | |
| 10/19/2016 | | | |
| 10/20/2016 | | | |
| 10/24/2016 | 6.9 | | |
| 12/6/2016 | | | |
| 12/7/2016 | 6.91 | | |
| 1/24/2017 | | | |
| 1/25/2017 | | | |
| 1/26/2017 | 7.08 | | |
| 3/21/2017 | | | |
| 3/22/2017 | 7.13 | | |
| 5/22/2017 | | | |
| 5/23/2017 | | | |
| 5/24/2017 | 7.15 | | |
| 10/3/2017 | 7.32 | | |
| 4/2/2018 | | | |
| 4/3/2018 | | | |
| 4/4/2018 | 7.27 | | |
| 6/4/2018 | | | |
| 6/5/2018 | 7.2 | | |
| 6/6/2018 | | | |
| 10/1/2018 | | | |
| 10/2/2018 | | | |
| 10/3/2018 | | | |
| 10/5/2018 | 7.24 | | |
| 3/12/2019 | | | |
| 3/13/2019 | 7.24 | | |
| 3/14/2019 | | | |
| 4/1/2019 | | | |
| 4/2/2019 | | | |
| 4/3/2019 | | | |
| 4/5/2019 | 7.24 | | |
| 9/23/2019 | | | |
| 9/24/2019 | | | |
| 9/25/2019 | | | |
| 9/26/2019 | 6.94 | | |
| 9/27/2019 | | | |
| 3/2/2020 | | | |
| 3/3/2020 | | | |
| 3/4/2020 | 7.16 | | |
| 3/25/2020 | | | |
| 3/26/2020 | | | |
| 3/27/2020 | | | |
| 3/30/2020 | 6.91 | | |
| 3/31/2020 | | | |
| 4/1/2020 | | | |

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 10/17/2023 12:59 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-13 | HGWA-43D (bg) | HGWA-44D (bg) |
|------------|---------|---------------|---------------|
| 6/16/2020 | | | |
| 6/17/2020 | | | |
| 9/15/2020 | | | |
| 9/16/2020 | | 7.52 | 7.83 |
| 9/17/2020 | | | |
| 9/18/2020 | | | |
| 9/21/2020 | 7.34 | | |
| 11/10/2020 | | 7.27 | 7.84 |
| 12/15/2020 | | 7.39 | 7.87 |
| 1/19/2021 | | 7.39 | 7.86 |
| 2/8/2021 | | | |
| 2/9/2021 | | 7.44 | 7.84 |
| 2/10/2021 | | | |
| 2/12/2021 | | | |
| 2/15/2021 | | | |
| 2/16/2021 | | | |
| 2/22/2021 | 7.27 | | |
| 3/10/2021 | | | 7.92 |
| 3/11/2021 | | 7.46 | |
| 3/12/2021 | | | |
| 3/15/2021 | | | |
| 3/16/2021 | | | |
| 3/17/2021 | 7.33 | | |
| 8/11/2021 | | 7.4 | |
| 8/12/2021 | | | |
| 8/13/2021 | | | 7.77 |
| 8/16/2021 | | | |
| 8/17/2021 | | | |
| 8/18/2021 | | | |
| 8/19/2021 | 7.38 | | |
| 2/1/2022 | | 7.52 | 8.25 |
| 2/9/2022 | | | |
| 2/10/2022 | 7.54 | | |
| 8/3/2022 | 7.09 | | |
| 8/4/2022 | | | |
| 8/11/2022 | | | |
| 1/23/2023 | | | |
| 1/24/2023 | | 7.56 | 8.22 |
| 1/26/2023 | 6.9 | | |
| 1/27/2023 | | | |
| 2/1/2023 | | | |
| 8/8/2023 | | 7.39 | 8.2 |
| 8/10/2023 | | | |
| 8/11/2023 | | | |
| 8/12/2023 | 6.89 | | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-11 | HGWC-12 | HGWC-10 | HGWC-13 |
|------------|-------------|-------------|-------------|--------|--------|---------|---------|---------|---------|
| 5/19/2016 | 66.9 | 42.3 | 48.6 | | | | | | |
| 5/20/2016 | | | | 96 | 219 | | | | |
| 5/23/2016 | | | | | | 260 | 288 | 175 | 215 |
| 7/11/2016 | 41 | | 45 | | | | | | |
| 7/12/2016 | | 44 | | 100 | 230 | 390 | 320 | 190 | 210 |
| 8/30/2016 | 36 | 40 | 42 | | | | | | |
| 9/1/2016 | | | | 100 | 230 | 240 | 300 | 190 | 190 |
| 10/19/2016 | 46 | 43 | 44 | | | | | | |
| 10/20/2016 | | | | 110 | 240 | | | | |
| 10/24/2016 | | | | | | 370 | 270 | 190 | 180 |
| 12/6/2016 | 59 | 43 | 44 | 110 | 250 | | | | |
| 12/7/2016 | | | | | | 260 | 280 | 200 | 120 |
| 1/24/2017 | 46 | 48 | 46 | | | | | | |
| 1/25/2017 | | | | 110 | 260 | | | | |
| 1/26/2017 | | | | | | 230 | 260 | 90 | 83 |
| 3/21/2017 | 63 | 45 | 46 | 110 | 240 | | | | |
| 3/22/2017 | | | | | | 330 | 220 | 170 | 100 |
| 5/22/2017 | 77 | 46 | 48 | | | | | | |
| 5/23/2017 | | | | 110 | 270 | | | | |
| 5/24/2017 | | | | | | 230 | 210 | 190 | 110 |
| 10/3/2017 | 42 | 48 | 47 | 120 | 230 | 230 | 190 | 200 | 67 |
| 6/4/2018 | 71.8 | 46.6 | 47.8 | | | | | | |
| 6/5/2018 | | | | 117 | | 204 | | 205 | 187 |
| 6/6/2018 | | | | | 190 | | 162 | | |
| 10/1/2018 | 49.1 | 48.6 | 48.1 | | | | | | |
| 10/2/2018 | | | | 120 | 193 | | | 178 | |
| 10/3/2018 | | | | | | 233 | 191 | | |
| 10/5/2018 | | | | | | | | | 78.3 |
| 4/1/2019 | | 50.4 | | | | | | | |
| 4/2/2019 | 84.3 | | 48.7 | 127 | | | | | |
| 4/3/2019 | | | | | 194 | 298 | 176 | 159 | |
| 4/5/2019 | | | | | | | | | 105 |
| 9/23/2019 | 70.2 | 43.9 | 47.2 | | | | | | |
| 9/24/2019 | | | | | 133 | | | | |
| 9/25/2019 | | | | 109 | | | | | |
| 9/26/2019 | | | | | | | | | 444 |
| 9/27/2019 | | | | | | <1 | 198 | 181 | |
| 3/25/2020 | 85.9 | 50.5 | 46.3 | | | | | | |
| 3/26/2020 | | | | | | | 182 | | |
| 3/27/2020 | | | | 109 | 173 | | | | |
| 3/30/2020 | | | | | | | | | 393 |
| 3/31/2020 | | | | | | 283 | | | |
| 4/1/2020 | | | | | | | | 59 | |
| 6/16/2020 | 88.2 | 49.5 | | | 157 | | | | |
| 6/17/2020 | | | | 102 | | | | | |
| 9/15/2020 | 47.3 | 44.7 | 51.5 | | | | | | |
| 9/16/2020 | | | | 109 | 194 | | | 169 | |
| 9/17/2020 | | | | | | | | | |
| 9/18/2020 | | | | | | 272 | 266 | | |
| 9/21/2020 | | | | | | | | | 359 |
| 11/10/2020 | | | | | | | | | |
| 12/15/2020 | | | | | | | | | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-11 | HGWC-12 | HGWC-10 | HGWC-13 |
|-----------|-------------|-------------|-------------|--------|--------|---------|---------|---------|---------|
| 1/19/2021 | | | | | | | | | |
| 3/10/2021 | 49.6 | | | | | | | | |
| 3/11/2021 | | 50.4 | 52.9 | | | | | | |
| 3/12/2021 | | | | | | | | 120 | |
| 3/15/2021 | | | | 107 | 272 | | | | |
| 3/16/2021 | | | | | | 291 | 248 | | |
| 3/17/2021 | | | | | | | | | 384 |
| 8/11/2021 | 48.9 | | | | | | | | |
| 8/12/2021 | | 38.6 | 47.4 | | | | | | |
| 8/13/2021 | | | | | | | | | |
| 8/16/2021 | | | | 98.1 | | | | | |
| 8/17/2021 | | | | | | | | 156 | |
| 8/18/2021 | | | | | 245 | 237 | 226 | | |
| 8/19/2021 | | | | | | | | | 339 |
| 2/1/2022 | 43.7 | 46 | 67.1 | | | | | | |
| 2/9/2022 | | | | | | 276 | 252 | 49.2 | |
| 2/10/2022 | | | | 97.5 | 224 | | | | 371 |
| 8/2/2022 | 58.1 | 43.5 | 86.9 | | | | | | |
| 8/3/2022 | | | | 105 | 241 | 254 | 236 | 119 | 451 |
| 8/4/2022 | | | | | | | | | |
| 8/11/2022 | | | | 121 | | | | | |
| 1/23/2023 | | 39.5 | | | | | | | |
| 1/24/2023 | 48.3 | | 79.7 | | | | | | |
| 1/26/2023 | | | | | | 209 | 228 | | 495 |
| 1/27/2023 | | | | 119 | | | | 37.3 | |
| 2/1/2023 | | | | | 179 | | | | |
| 8/8/2023 | 67.7 | 35 | 89.9 | | | | | | |
| 8/10/2023 | | | | | | 190 | 209 | 128 | |
| 8/11/2023 | | | | | | | | | |
| 8/12/2023 | | | | 84.2 | 170 | | | | 347 |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | HGWA-44D (bg) | HGWA-43D (bg) |
|------------|--------|---------------|---------------|
| 5/19/2016 | | | |
| 5/20/2016 | | | |
| 5/23/2016 | 207 | | |
| 7/11/2016 | | | |
| 7/12/2016 | 230 | | |
| 8/30/2016 | | | |
| 9/1/2016 | 230 | | |
| 10/19/2016 | | | |
| 10/20/2016 | 240 | | |
| 10/24/2016 | | | |
| 12/6/2016 | 240 | | |
| 12/7/2016 | | | |
| 1/24/2017 | | | |
| 1/25/2017 | | | |
| 1/26/2017 | 270 | | |
| 3/21/2017 | | | |
| 3/22/2017 | 240 | | |
| 5/22/2017 | | | |
| 5/23/2017 | 240 | | |
| 5/24/2017 | | | |
| 10/3/2017 | 240 | | |
| 6/4/2018 | | | |
| 6/5/2018 | | | |
| 6/6/2018 | 214 | | |
| 10/1/2018 | | | |
| 10/2/2018 | 218 | | |
| 10/3/2018 | | | |
| 10/5/2018 | | | |
| 4/1/2019 | | | |
| 4/2/2019 | | | |
| 4/3/2019 | 214 | | |
| 4/5/2019 | | | |
| 9/23/2019 | | | |
| 9/24/2019 | | | |
| 9/25/2019 | | | |
| 9/26/2019 | | | |
| 9/27/2019 | 214 | | |
| 3/25/2020 | | | |
| 3/26/2020 | | | |
| 3/27/2020 | | | |
| 3/30/2020 | | | |
| 3/31/2020 | 185 | | |
| 4/1/2020 | | | |
| 6/16/2020 | | | |
| 6/17/2020 | | | |
| 9/15/2020 | | | |
| 9/16/2020 | | 6.9 | 43 |
| 9/17/2020 | 209 | | |
| 9/18/2020 | | | |
| 9/21/2020 | | | |
| 11/10/2020 | | 6.3 | 39 |
| 12/15/2020 | | 6.7 | 38.8 |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | HGWA-44D (bg) | HGWA-43D (bg) |
|-----------|--------|---------------|---------------|
| 1/19/2021 | | 7.4 | 37.3 |
| 3/10/2021 | | <1 | |
| 3/11/2021 | | | 38.6 |
| 3/12/2021 | | | |
| 3/15/2021 | | | |
| 3/16/2021 | 211 | | |
| 3/17/2021 | | | |
| 8/11/2021 | | | 30.5 |
| 8/12/2021 | | | |
| 8/13/2021 | | 56.1 | |
| 8/16/2021 | | | |
| 8/17/2021 | 207 | | |
| 8/18/2021 | | | |
| 8/19/2021 | | | |
| 2/1/2022 | | 56.3 | 37.5 |
| 2/9/2022 | 224 | | |
| 2/10/2022 | | | |
| 8/2/2022 | | 13.2 | 37 |
| 8/3/2022 | | | |
| 8/4/2022 | 243 | | |
| 8/11/2022 | | | |
| 1/23/2023 | | | |
| 1/24/2023 | | 10.1 | 34.7 |
| 1/26/2023 | 217 | | |
| 1/27/2023 | | | |
| 2/1/2023 | | | |
| 8/8/2023 | | 1.3 | 25.6 |
| 8/10/2023 | | | |
| 8/11/2023 | 197 | | |
| 8/12/2023 | | | |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWC-7 | HGWC-8 | HGWC-11 | HGWC-12 | HGWC-10 | HGWC-13 |
|-----------|-------------|-------------|-------------|--------|--------|---------|---------|----------|---------|
| 1/19/2021 | | | | | | | | | |
| 3/10/2021 | 348 | | | | | | | | |
| 3/11/2021 | | 267 | 169 | | | | | | |
| 3/12/2021 | | | | | | | | 490 (H1) | |
| 3/15/2021 | | | | 370 | 614 | | | | |
| 3/16/2021 | | | | | | 558 | 614 | | |
| 3/17/2021 | | | | | | | | | 716 |
| 8/11/2021 | 366 | | | | | | | | |
| 8/12/2021 | | 265 | 118 | | | | | | |
| 8/13/2021 | | | | | | | | | |
| 8/16/2021 | | | | 407 | | | | | |
| 8/17/2021 | | | | | | | | 496 | |
| 8/18/2021 | | | | | 620 | 566 | 600 | | |
| 8/19/2021 | | | | | | | | | 726 |
| 2/1/2022 | 270 | 350 | 156 | | | | | | |
| 2/9/2022 | | | | | | 544 | 678 | 250 | |
| 2/10/2022 | | | | 414 | 578 | | | | 814 |
| 8/2/2022 | 400 | 287 | 196 | | | | | | |
| 8/3/2022 | | | | 441 | 648 | 572 | 650 | 433 | 958 |
| 8/4/2022 | | | | | | | | | |
| 8/11/2022 | | | | 445 | | | | | |
| 1/23/2023 | | 293 | | | | | | | |
| 1/24/2023 | 369 | | 164 | | | | | | |
| 1/26/2023 | | | | | | 429 | 624 | | 962 |
| 1/27/2023 | | | | 473 | | | | 188 | |
| 2/1/2023 | | | | | 528 | | | | |
| 8/8/2023 | 457 | 285 | 189 | | | | | | |
| 8/10/2023 | | | | | | 438 | 683 | 504 | |
| 8/11/2023 | | | | | | | | | |
| 8/12/2023 | | | | 378 | 564 | | | | 803 |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | HGWA-44D (bg) | HGWA-43D (bg) |
|------------|--------|---------------|---------------|
| 5/19/2016 | | | |
| 5/20/2016 | | | |
| 5/23/2016 | 984 | | |
| 7/11/2016 | | | |
| 7/12/2016 | 887 | | |
| 8/30/2016 | | | |
| 9/1/2016 | 956 | | |
| 10/19/2016 | | | |
| 10/20/2016 | 642 | | |
| 10/24/2016 | | | |
| 12/6/2016 | 899 | | |
| 12/7/2016 | | | |
| 1/24/2017 | | | |
| 1/25/2017 | | | |
| 1/26/2017 | 869 | | |
| 3/21/2017 | | | |
| 3/22/2017 | 936 | | |
| 5/22/2017 | | | |
| 5/23/2017 | 939 | | |
| 5/24/2017 | | | |
| 10/3/2017 | 1040 | | |
| 6/4/2018 | | | |
| 6/5/2018 | | | |
| 6/6/2018 | 810 | | |
| 10/1/2018 | | | |
| 10/2/2018 | 693 | | |
| 10/3/2018 | | | |
| 10/5/2018 | | | |
| 4/1/2019 | | | |
| 4/2/2019 | | | |
| 4/3/2019 | 673 | | |
| 4/5/2019 | | | |
| 9/23/2019 | | | |
| 9/24/2019 | | | |
| 9/25/2019 | | | |
| 9/26/2019 | | | |
| 9/27/2019 | 730 | | |
| 3/25/2020 | | | |
| 3/26/2020 | | | |
| 3/27/2020 | | | |
| 3/30/2020 | | | |
| 3/31/2020 | 1010 | | |
| 4/1/2020 | | | |
| 6/16/2020 | | | |
| 6/17/2020 | | | |
| 9/15/2020 | | | |
| 9/16/2020 | | 270 | 272 |
| 9/17/2020 | 680 | | |
| 9/18/2020 | | | |
| 9/21/2020 | | | |
| 11/10/2020 | | 287 | 307 |
| 12/15/2020 | | 295 | 289 |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/17/2023 12:59 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | HGWA-44D (bg) | HGWA-43D (bg) |
|-----------|--------|---------------|---------------|
| 1/19/2021 | | 278 | 270 |
| 3/10/2021 | | 289 | |
| 3/11/2021 | | | 279 |
| 3/12/2021 | | | |
| 3/15/2021 | | | |
| 3/16/2021 | 672 | | |
| 3/17/2021 | | | |
| 8/11/2021 | | | 277 |
| 8/12/2021 | | | |
| 8/13/2021 | | 436 | |
| 8/16/2021 | | | |
| 8/17/2021 | 704 | | |
| 8/18/2021 | | | |
| 8/19/2021 | | | |
| 2/1/2022 | | 444 | 156 |
| 2/9/2022 | 756 | | |
| 2/10/2022 | | | |
| 8/2/2022 | | 311 | 278 |
| 8/3/2022 | | | |
| 8/4/2022 | 760 | | |
| 8/11/2022 | | | |
| 1/23/2023 | | | |
| 1/24/2023 | | 363 | 271 |
| 1/26/2023 | 745 | | |
| 1/27/2023 | | | |
| 2/1/2023 | | | |
| 8/8/2023 | | 361 | 274 |
| 8/10/2023 | | | |
| 8/11/2023 | 757 | | |
| 8/12/2023 | | | |

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/17/2023, 1:02 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------------------|---------------|-----------|-------|----------|------|----|------|-----------|-------|-------|--------|
| Boron (mg/L) | HGWA-2 (bg) | 0.002577 | 142 | 87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-43D (bg) | -0.007982 | -31 | -30 | Yes | 10 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-12 | -0.1831 | -117 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-13 | -0.2266 | -130 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-7 | 0.03451 | 105 | 98 | Yes | 23 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-3 (bg) | 1.995 | 116 | 92 | Yes | 22 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-3 (bg) | -0.1444 | -121 | -92 | Yes | 22 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-44D (bg) | 7.347 | 33 | 30 | Yes | 10 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWC-8 | -9.039 | -126 | -92 | Yes | 22 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWC-9 | -11.9 | -154 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-2 (bg) | 2.095 | 138 | 87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-43D (bg) | -3.197 | -35 | -30 | Yes | 10 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-10 | -10.13 | -97 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWC-12 | -46.96 | -98 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |

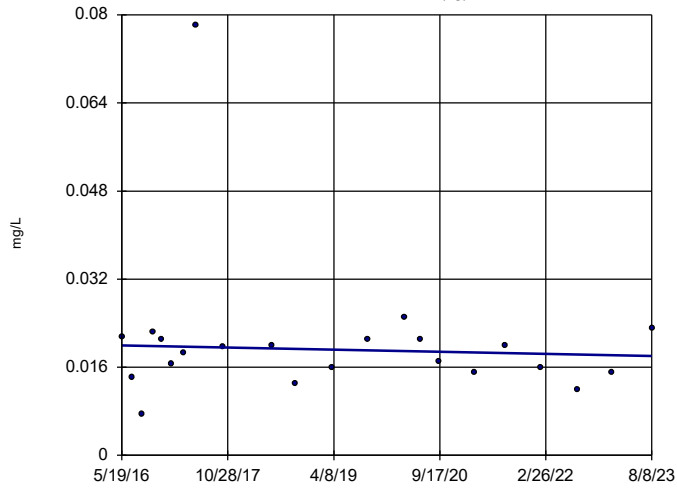
Appendix III Trend Tests - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/17/2023, 1:02 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|--------------------------------------|----------------------|------------------|-------------|------------|------------|-----------|----------|------------|------------|-------------|-----------|
| Boron (mg/L) | HGWA-1 (bg) | -0.0002605 | -21 | -92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-2 (bg) | 0.002577 | 142 | 87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-3 (bg) | 0.0003424 | 32 | 92 | No | 22 | 18.18 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-43D (bg) | -0.007982 | -31 | -30 | Yes | 10 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-44D (bg) | 0.08822 | 29 | 30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-10 | -0.03144 | -36 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-12 | -0.1831 | -117 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-13 | -0.2266 | -130 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-7 | 0.03451 | 105 | 98 | Yes | 23 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-8 | -0.003765 | -18 | -92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-9 | 0.05318 | 64 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-1 (bg) | 2.19 | 78 | 92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-2 (bg) | 1.082 | 82 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-3 (bg) | 1.995 | 116 | 92 | Yes | 22 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-43D (bg) | -3.038 | -25 | -30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-44D (bg) | -7.57 | -27 | -30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-10 | -4.775 | -74 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-12 | -3.992 | -61 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-13 | 16.21 | 70 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-9 | 0.5043 | 28 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-1 (bg) | 0.7747 | 82 | 92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-2 (bg) | 0 | 4 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-3 (bg) | -0.1444 | -121 | -92 | Yes | 22 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-43D (bg) | -0.1067 | -10 | -30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWA-44D (bg) | 7.347 | 33 | 30 | Yes | 10 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWC-8 | -9.039 | -126 | -92 | Yes | 22 | 0 | n/a | n/a | 0.01 | NP |
| Chloride (mg/L) | HGWC-9 | -11.9 | -154 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-1 (bg) | 1.304 | 38 | 92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-2 (bg) | 2.095 | 138 | 87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-3 (bg) | 0.1933 | 13 | 92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-43D (bg) | -3.197 | -35 | -30 | Yes | 10 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-44D (bg) | 1.358 | 7 | 30 | No | 10 | 10 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-10 | -10.13 | -97 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-11 | -9.651 | -52 | -87 | No | 21 | 4.762 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-12 | -9.599 | -68 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-13 | 40.99 | 68 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-8 | -5.775 | -44 | -92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-9 | -3.688 | -59 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWA-1 (bg) | 4.498 | 33 | 92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWA-2 (bg) | 3.534 | 35 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWA-3 (bg) | 1.304 | 29 | 92 | No | 22 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWA-43D (bg) | -4.269 | -13 | -30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWA-44D (bg) | 32.23 | 25 | 30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWC-12 | -46.96 | -98 | -87 | Yes | 21 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWC-13 | 44.64 | 66 | 87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWC-9 | -28.95 | -54 | -87 | No | 21 | 0 | n/a | n/a | 0.01 | NP |

Sen's Slope Estimator

HGWA-1 (bg)

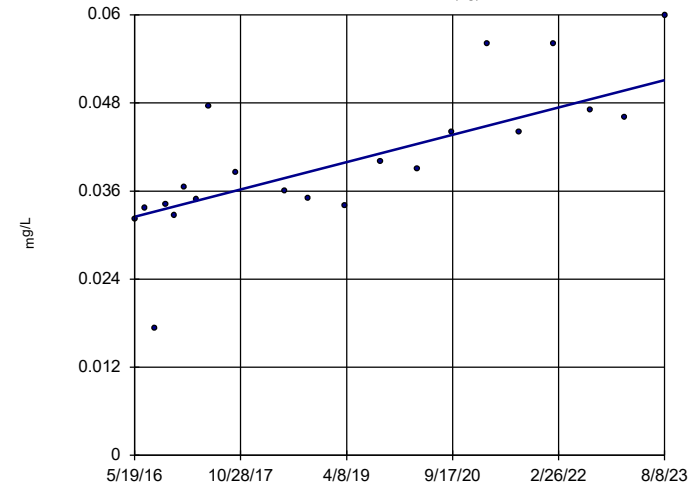


n = 22
 Slope = -0.0002605
 units per year.
 Mann-Kendall
 statistic = -21
 critical = -92
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-2 (bg)

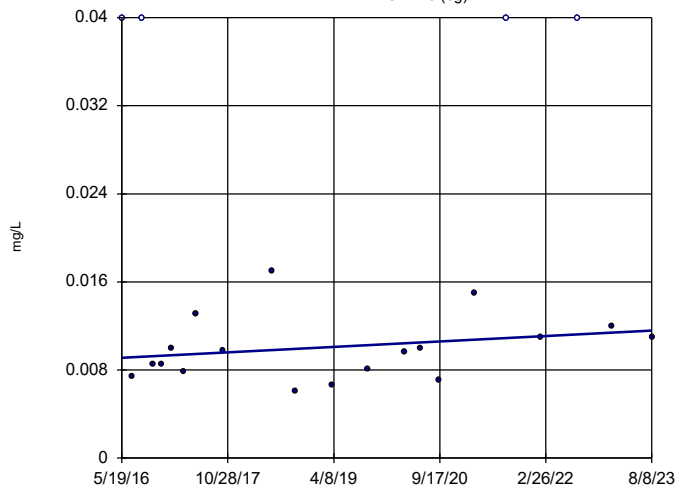


n = 21
 Slope = 0.002577
 units per year.
 Mann-Kendall
 statistic = 142
 critical = 87
 Increasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-3 (bg)

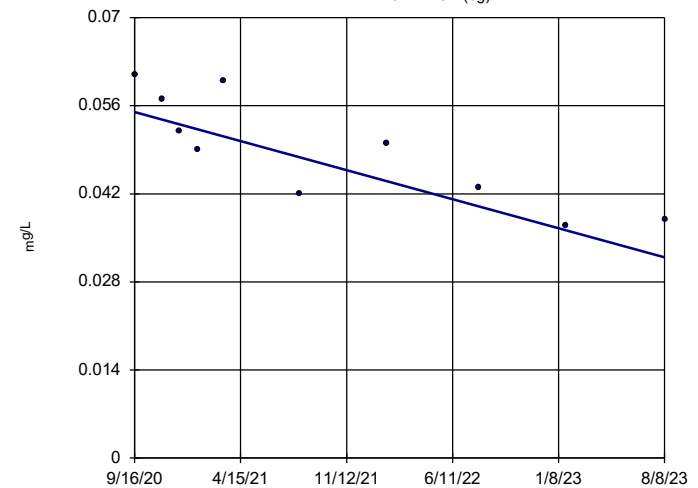


n = 22
 Slope = 0.0003424
 units per year.
 Mann-Kendall
 statistic = 32
 critical = 92
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-43D (bg)

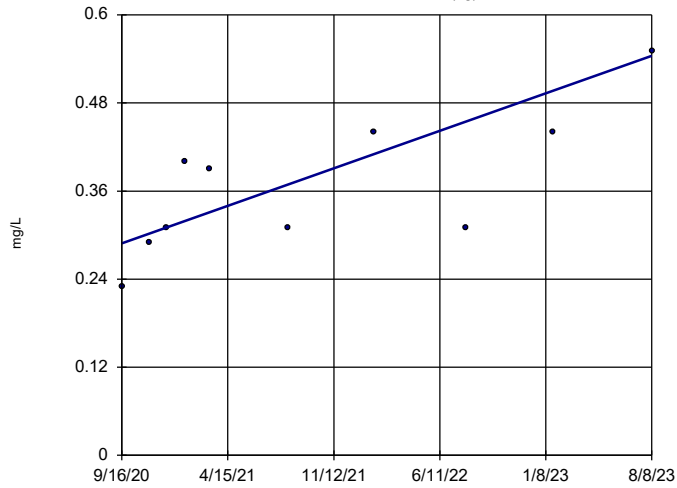


n = 10
 Slope = -0.007982
 units per year.
 Mann-Kendall
 statistic = -31
 critical = -30
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Boron Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-44D (bg)

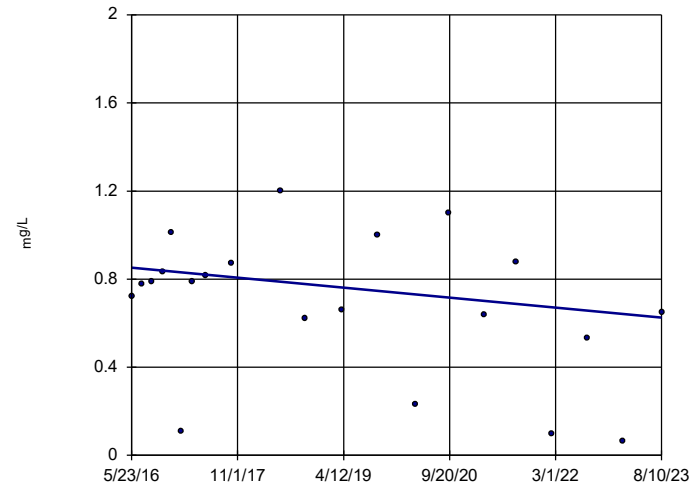


n = 10
 Slope = 0.08822 units per year.
 Mann-Kendall statistic = 29
 critical = 30
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-10

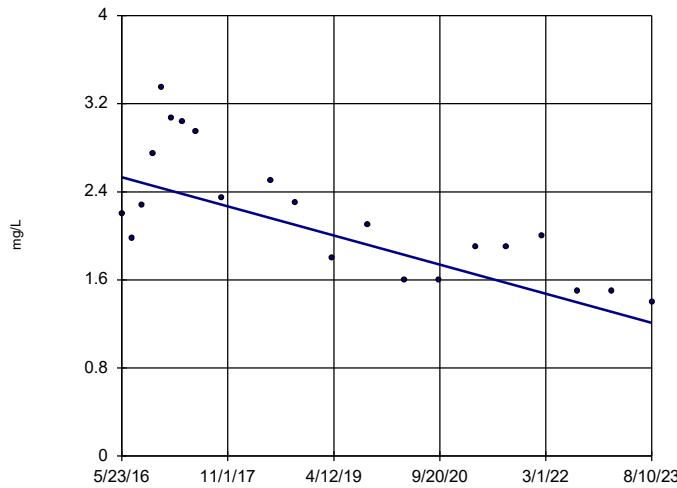


n = 21
 Slope = -0.03144 units per year.
 Mann-Kendall statistic = -36
 critical = -87
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-12

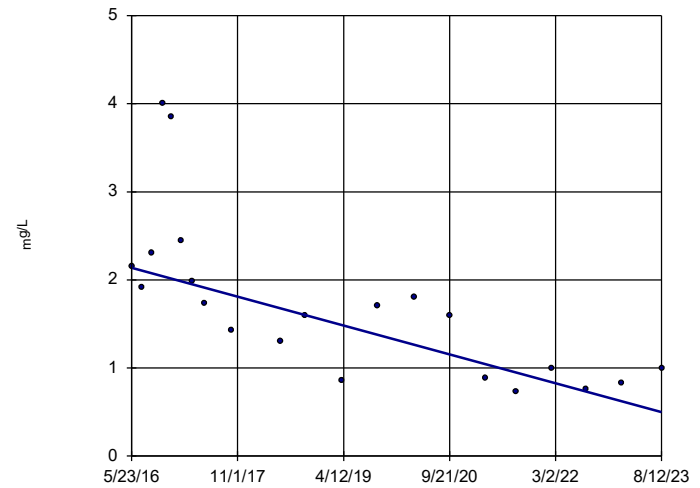


n = 21
 Slope = -0.1831 units per year.
 Mann-Kendall statistic = -117
 critical = -87
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-13

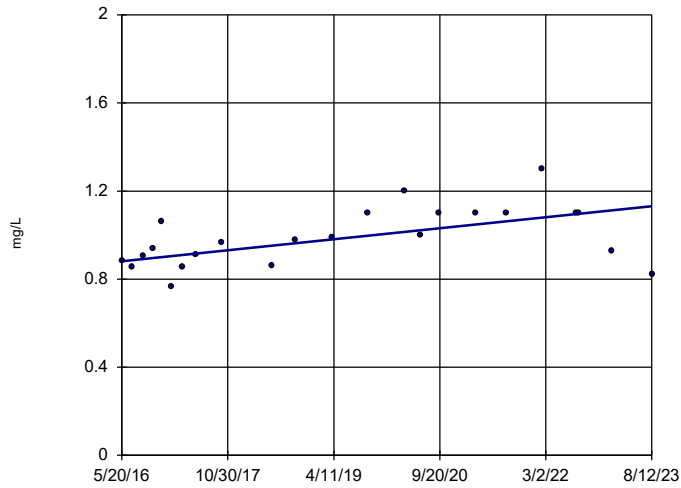


n = 21
 Slope = -0.2266 units per year.
 Mann-Kendall statistic = -130
 critical = -87
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-7

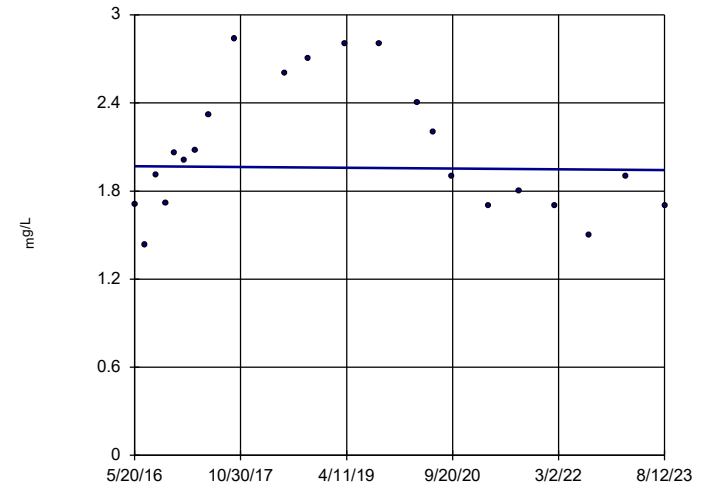


n = 23
 Slope = 0.03451
 units per year.
 Mann-Kendall
 statistic = 105
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-8

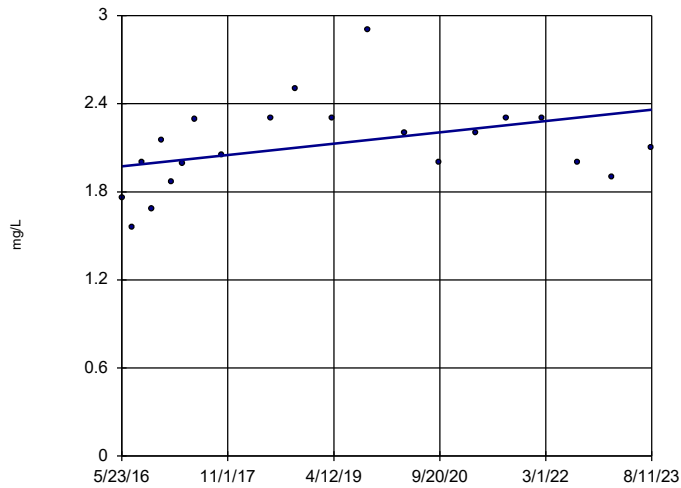


n = 22
 Slope = -0.003765
 units per year.
 Mann-Kendall
 statistic = -18
 critical = -92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-9

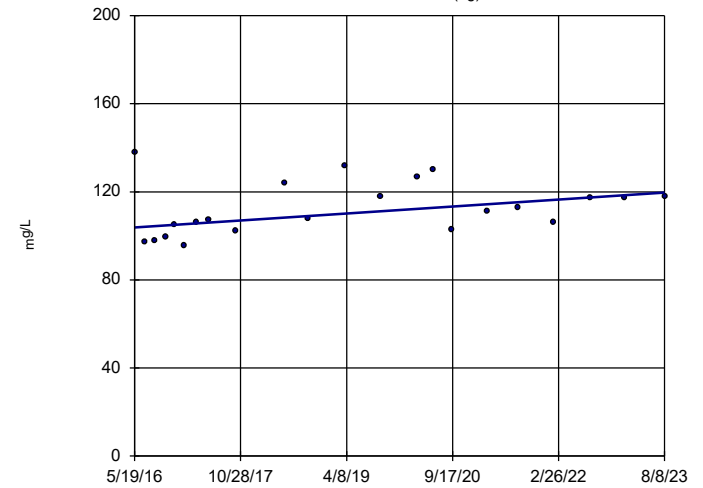


n = 21
 Slope = 0.05318
 units per year.
 Mann-Kendall
 statistic = 64
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-1 (bg)

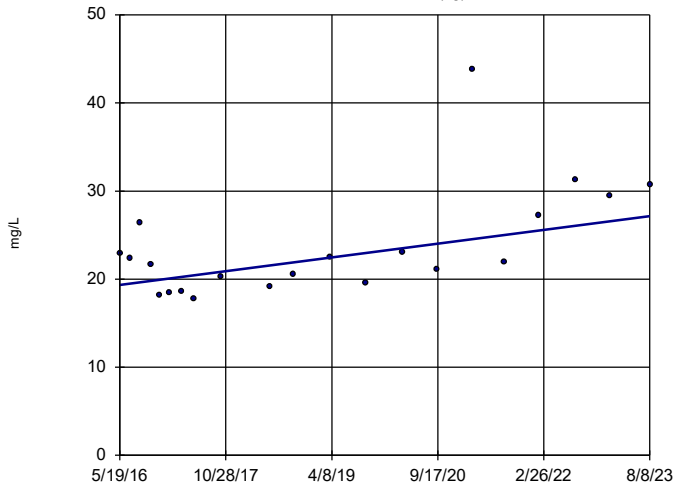


n = 22
 Slope = 2.19
 units per year.
 Mann-Kendall
 statistic = 78
 critical = 92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-2 (bg)

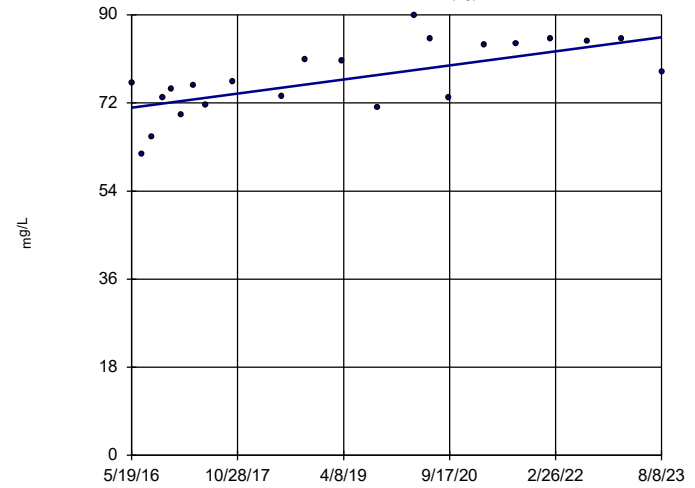


n = 21
 Slope = 1.082
 units per year.
 Mann-Kendall
 statistic = 82
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-3 (bg)

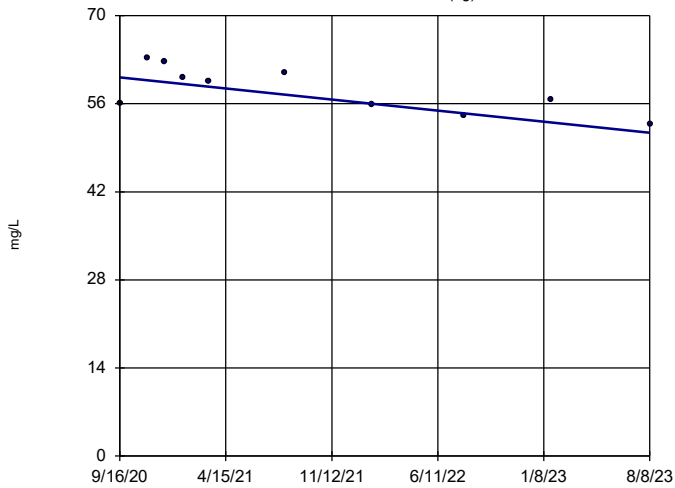


n = 22
 Slope = 1.995
 units per year.
 Mann-Kendall
 statistic = 116
 critical = 92
 Increasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-43D (bg)

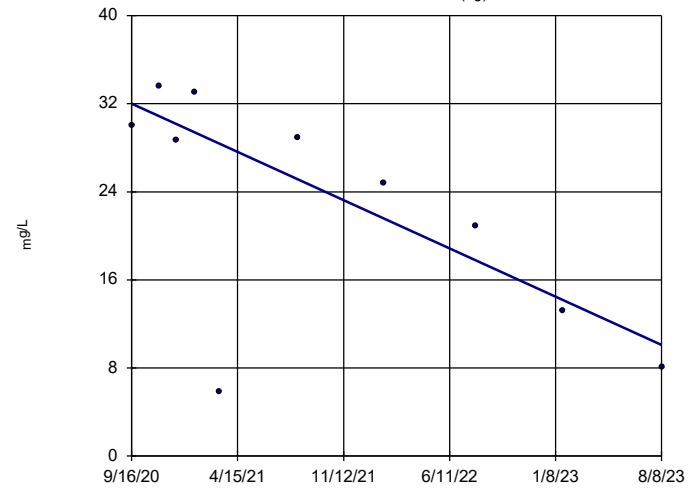


n = 10
 Slope = -3.038
 units per year.
 Mann-Kendall
 statistic = -25
 critical = -30
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-44D (bg)

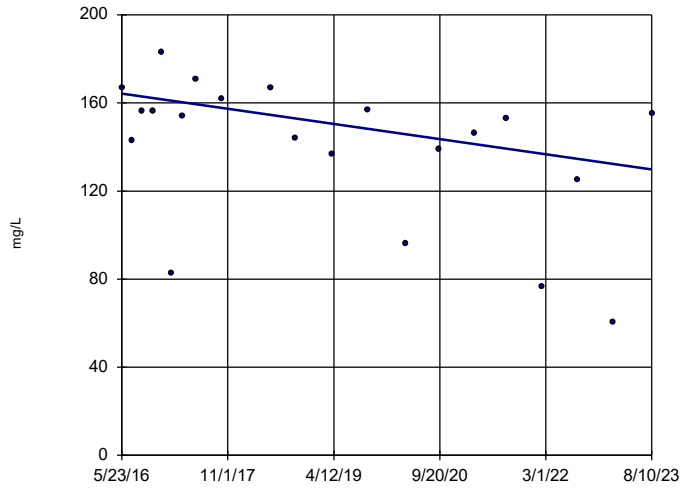


n = 10
 Slope = -7.57
 units per year.
 Mann-Kendall
 statistic = -27
 critical = -30
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-10

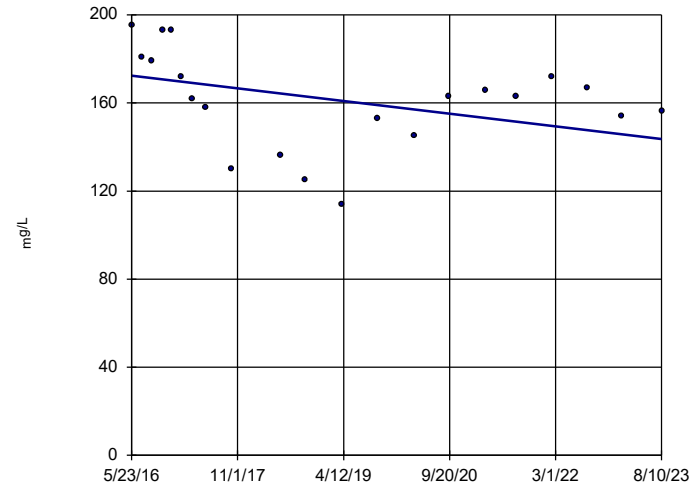


n = 21
 Slope = -4.775
 units per year.
 Mann-Kendall
 statistic = -74
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-12

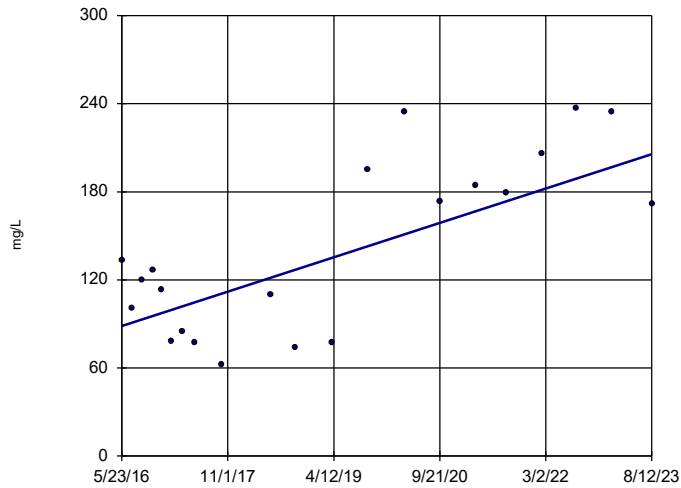


n = 21
 Slope = -3.992
 units per year.
 Mann-Kendall
 statistic = -61
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-13

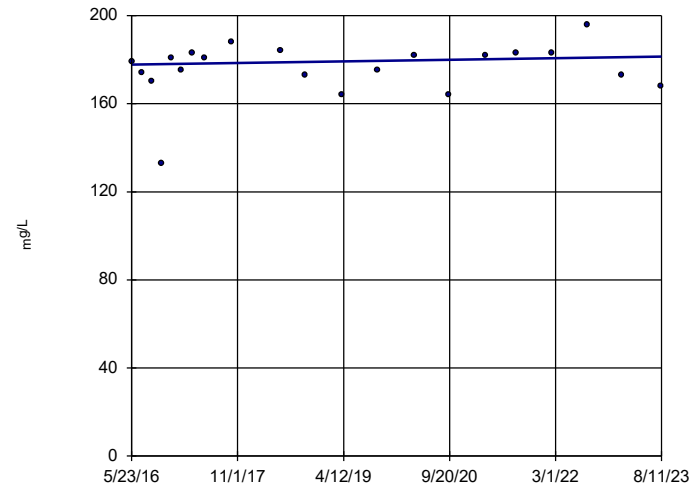


n = 21
 Slope = 16.21
 units per year.
 Mann-Kendall
 statistic = 70
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-9

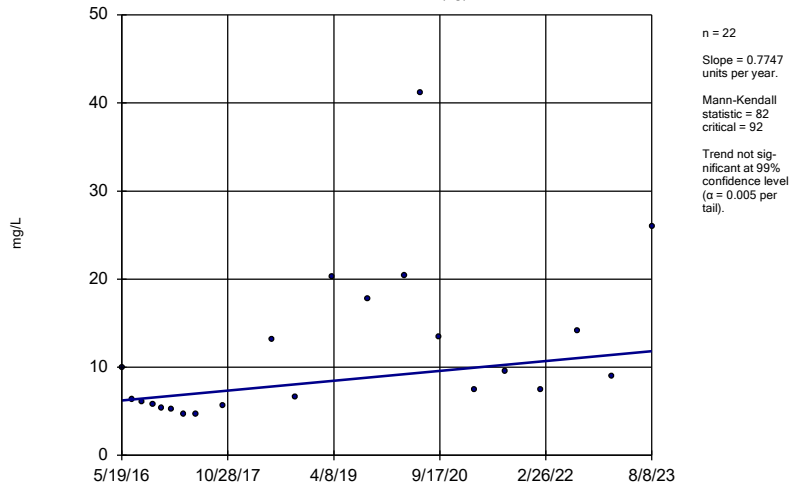


n = 21
 Slope = 0.5043
 units per year.
 Mann-Kendall
 statistic = 28
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

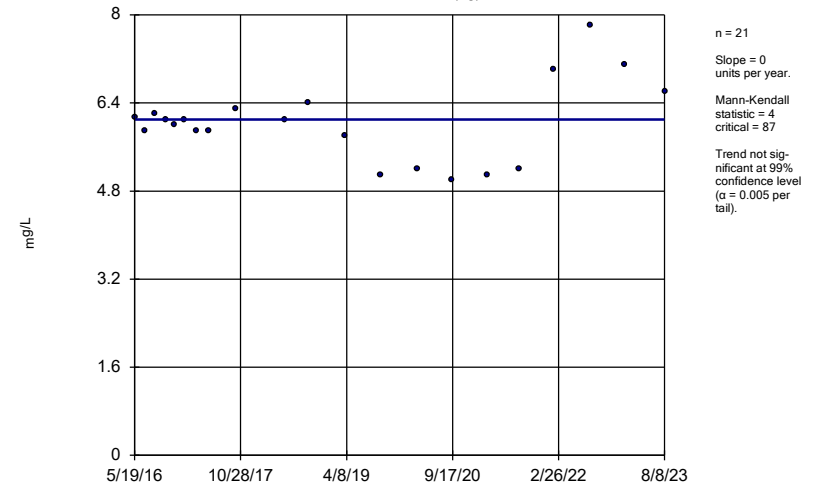
HGWA-1 (bg)



Constituent: Chloride Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

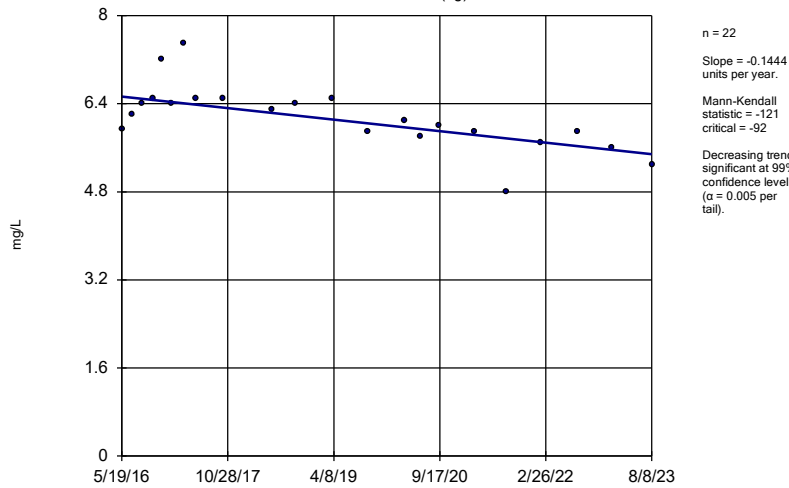
HGWA-2 (bg)



Constituent: Chloride Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

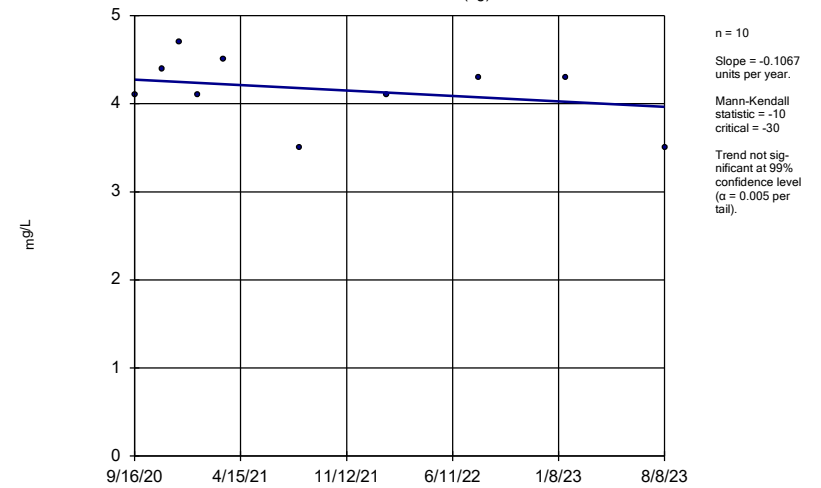
HGWA-3 (bg)



Constituent: Chloride Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

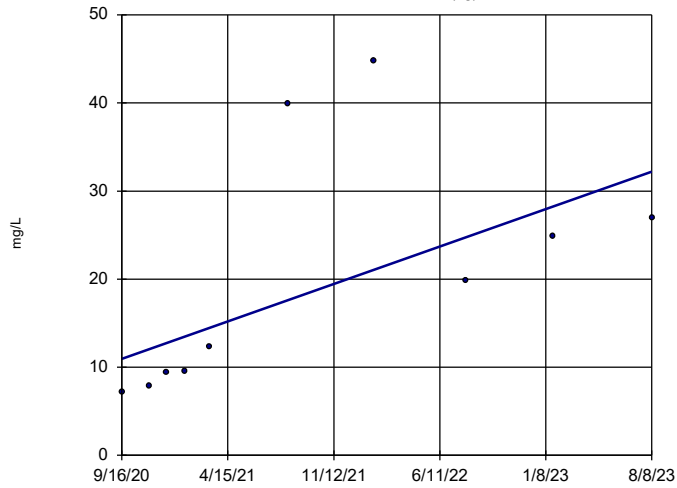
HGWA-43D (bg)



Constituent: Chloride Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

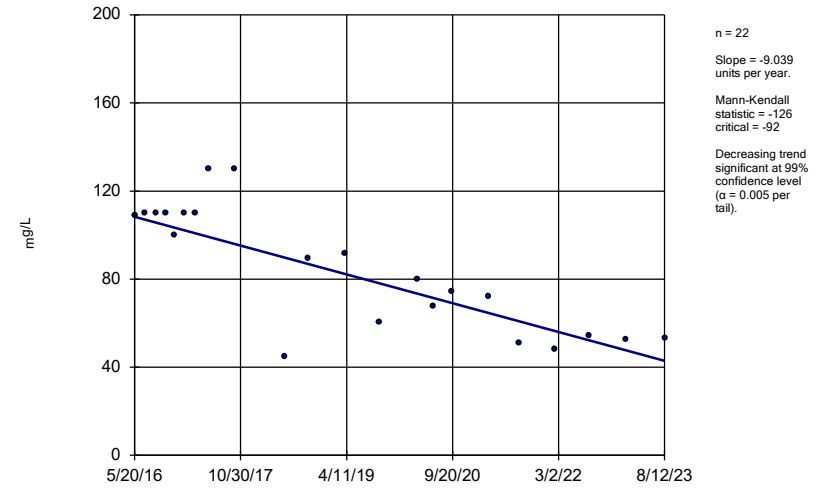
HGWA-44D (bg)



Constituent: Chloride Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

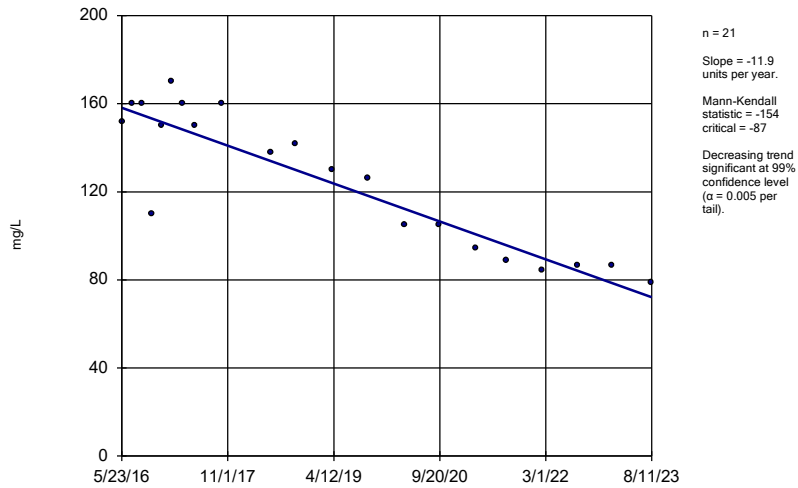
HGWC-8



Constituent: Chloride Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

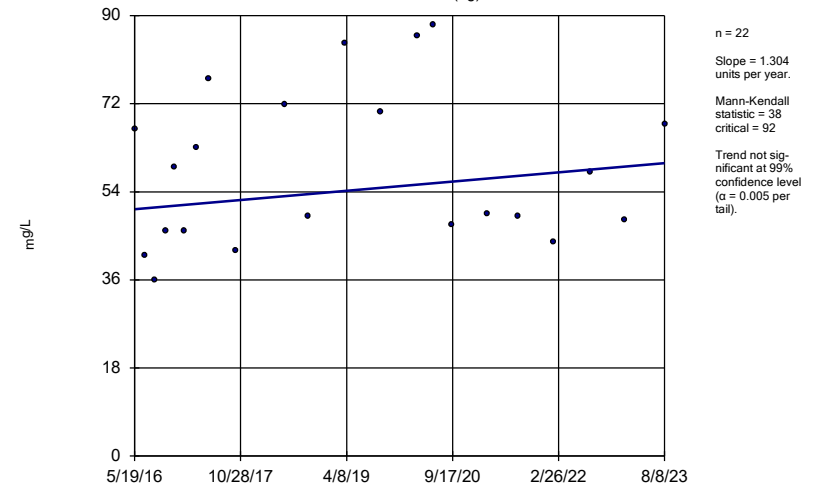
HGWC-9



Constituent: Chloride Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

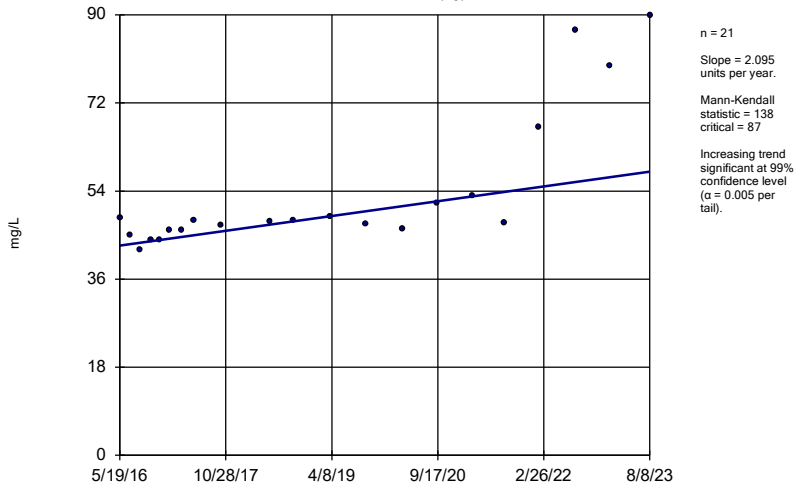
Sen's Slope Estimator

HGWA-1 (bg)



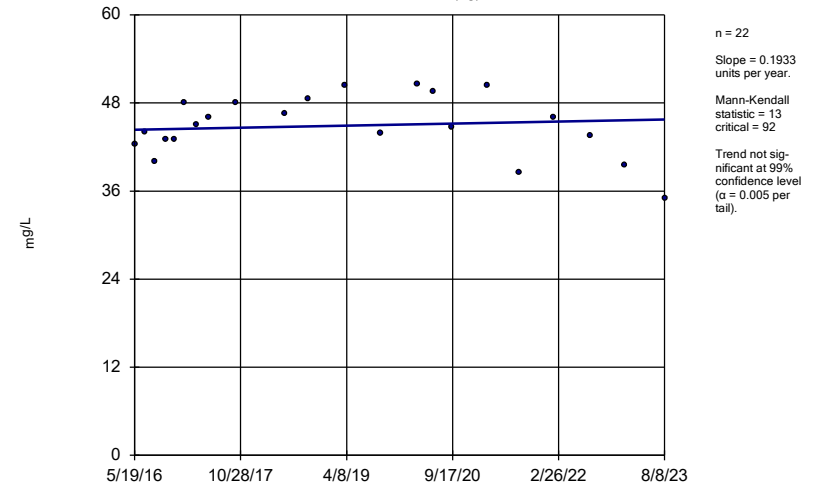
Constituent: Sulfate Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator
HGWA-2 (bg)



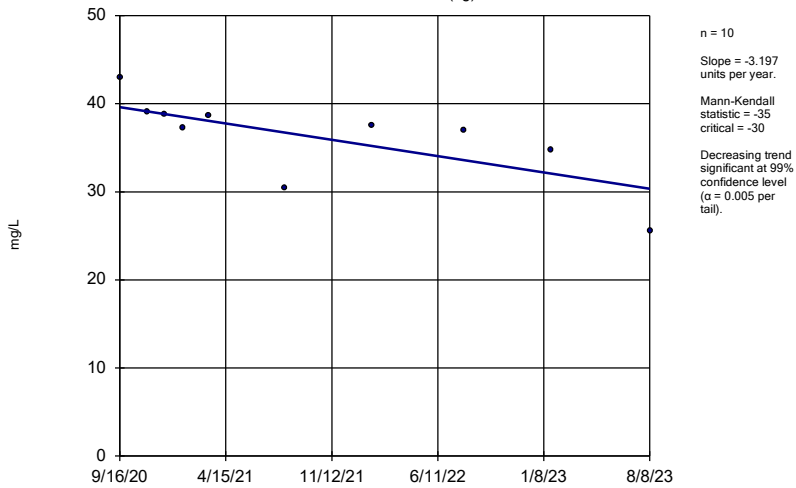
Constituent: Sulfate Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator
HGWA-3 (bg)



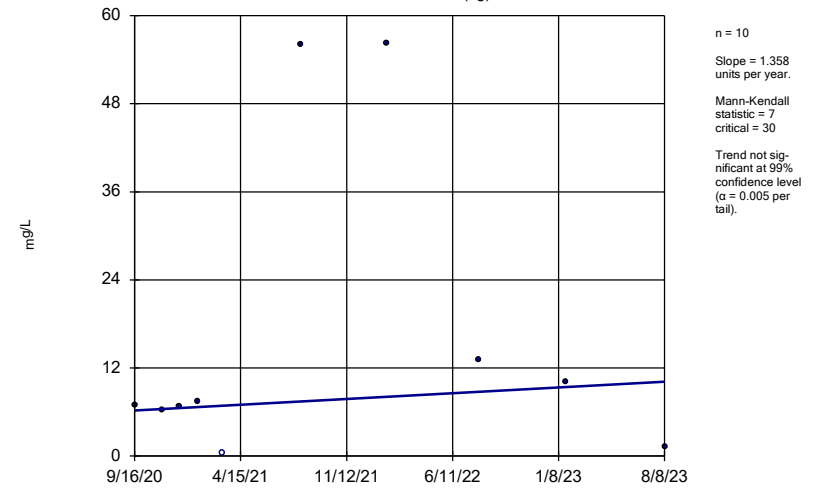
Constituent: Sulfate Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator
HGWA-43D (bg)



Constituent: Sulfate Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

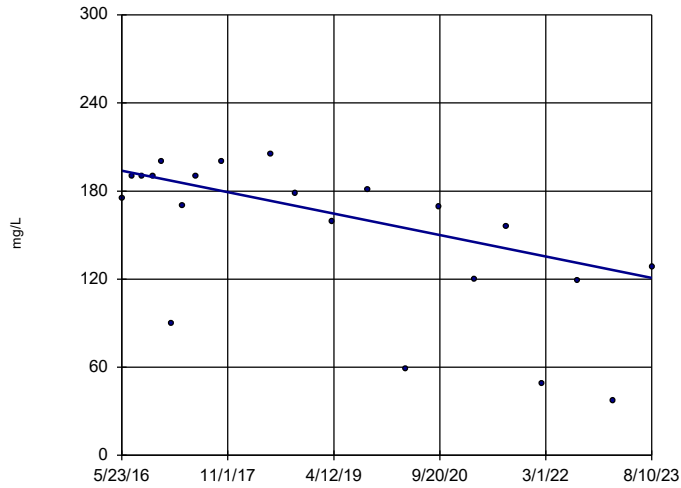
Sen's Slope Estimator
HGWA-44D (bg)



Constituent: Sulfate Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-10

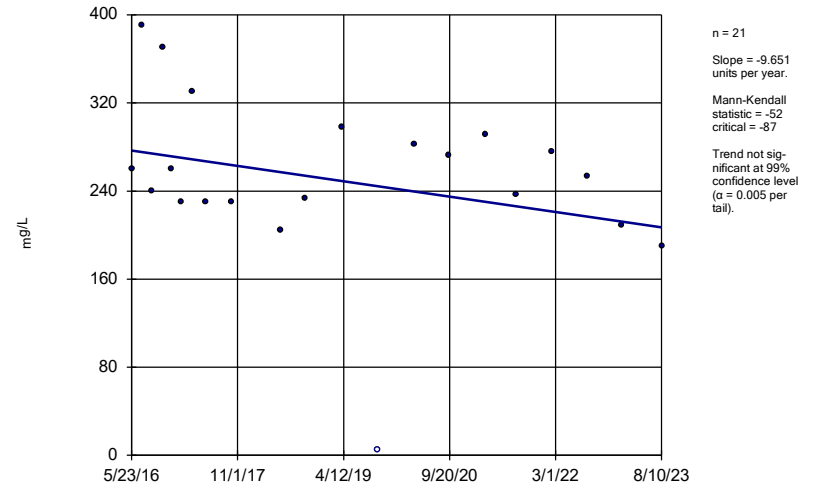


Constituent: Sulfate Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Hollow symbols indicate censored values.

Sen's Slope Estimator

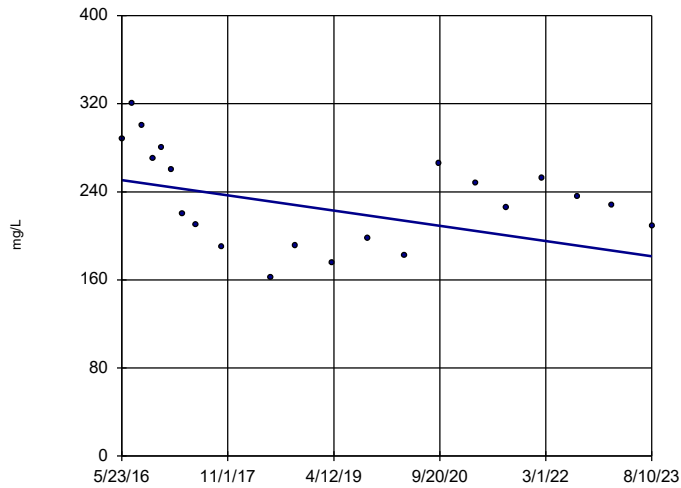
HGWC-11



Constituent: Sulfate Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

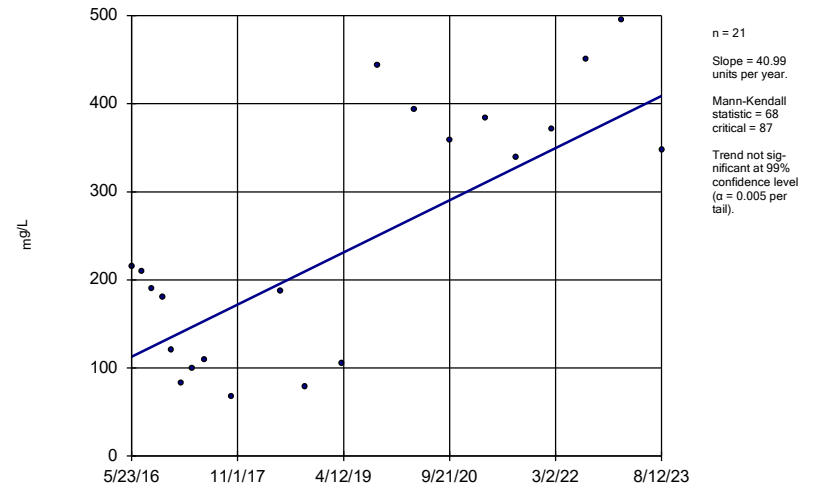
HGWC-12



Constituent: Sulfate Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

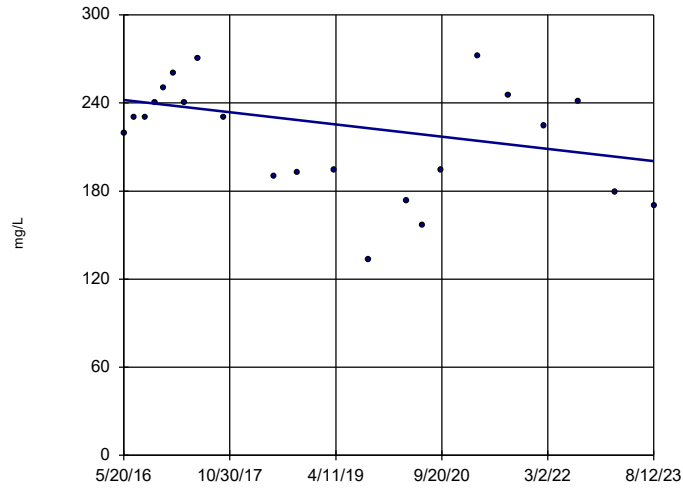
HGWC-13



Constituent: Sulfate Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-8

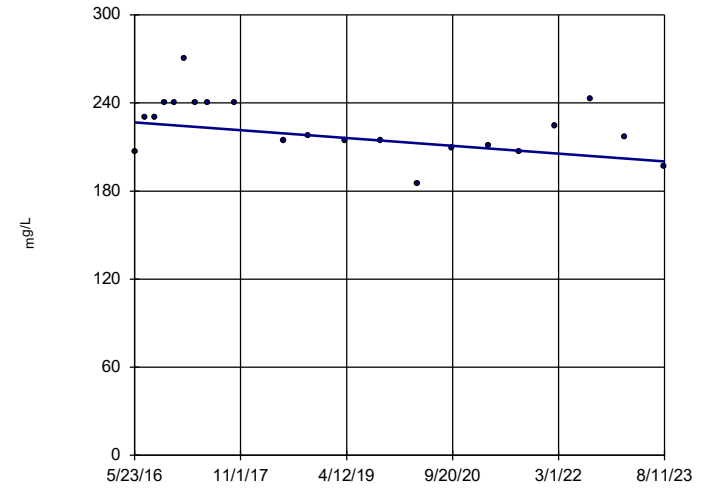


n = 22
 Slope = -5.775
 units per year.
 Mann-Kendall
 statistic = -44
 critical = -92
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-9

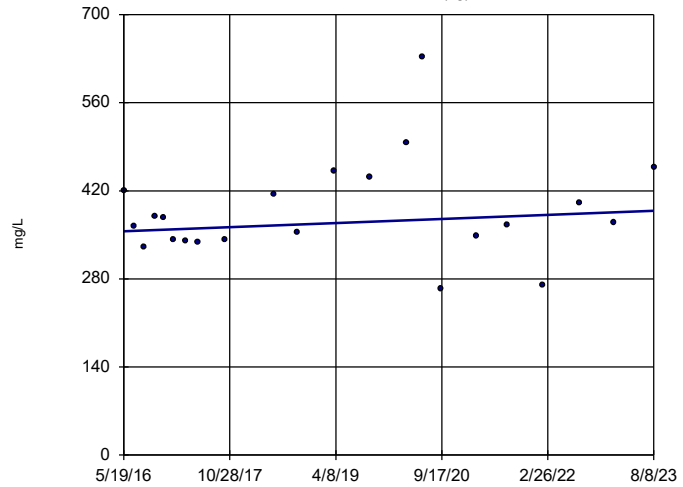


n = 21
 Slope = -3.688
 units per year.
 Mann-Kendall
 statistic = -59
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-1 (bg)

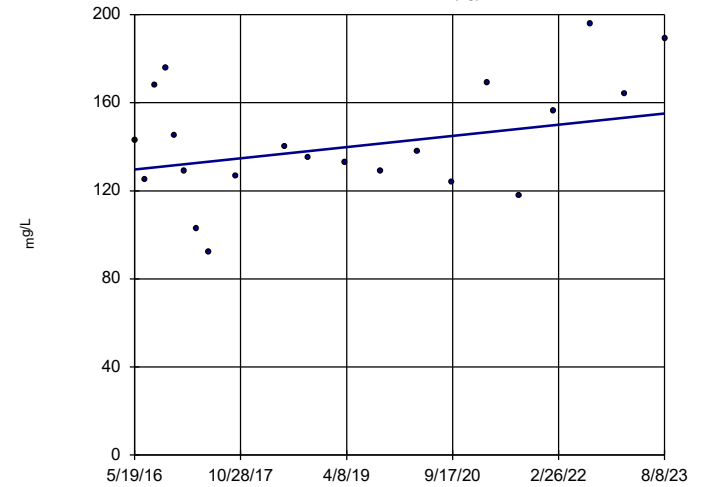


n = 22
 Slope = 4.498
 units per year.
 Mann-Kendall
 statistic = 33
 critical = 92
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-2 (bg)

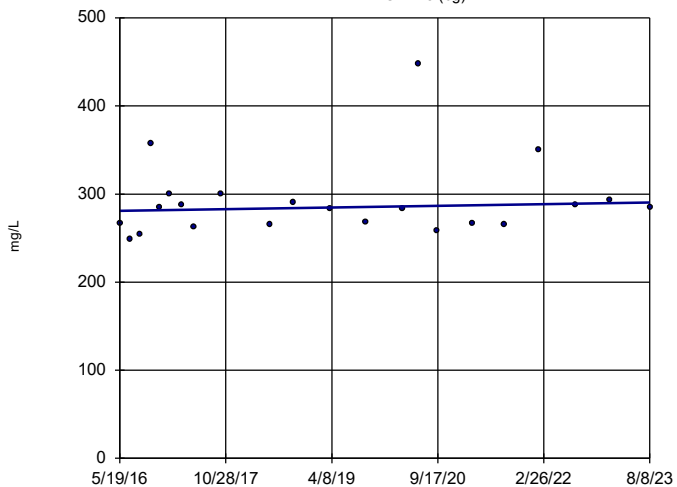


n = 21
 Slope = 3.534
 units per year.
 Mann-Kendall
 statistic = 35
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-3 (bg)

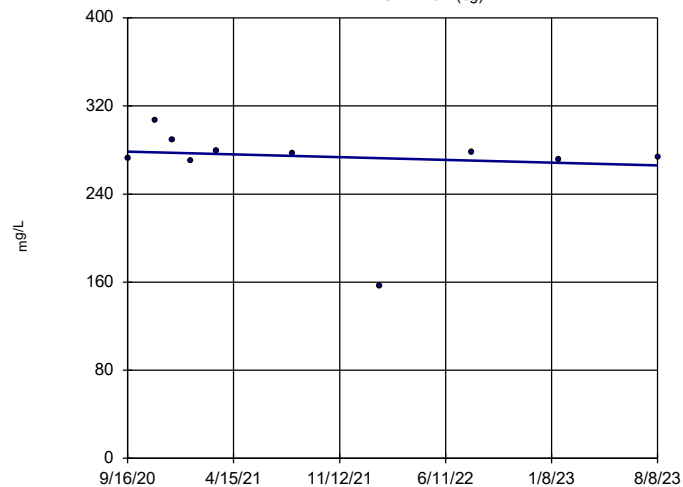


n = 22
Slope = 1.304
units per year.
Mann-Kendall
statistic = 29
critical = 92
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-43D (bg)

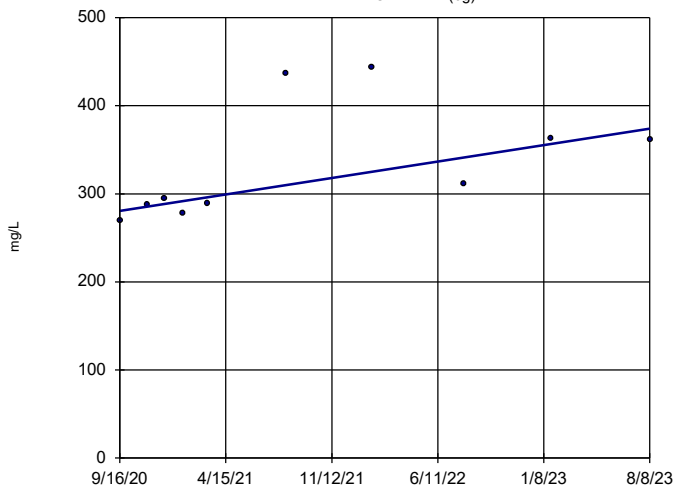


n = 10
Slope = -4.269
units per year.
Mann-Kendall
statistic = -13
critical = -30
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-44D (bg)

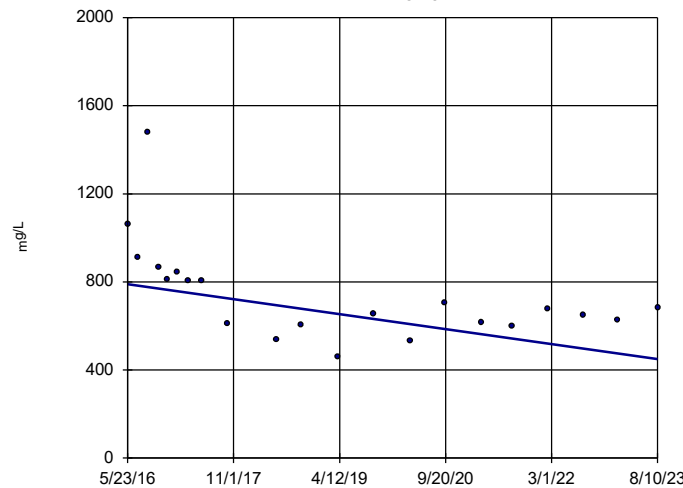


n = 10
Slope = 32.23
units per year.
Mann-Kendall
statistic = 25
critical = 30
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-12

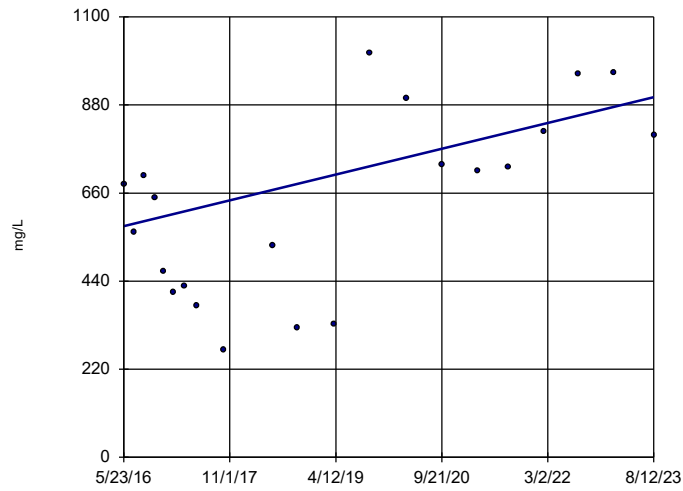


n = 21
Slope = -46.96
units per year.
Mann-Kendall
statistic = -98
critical = -87
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-13

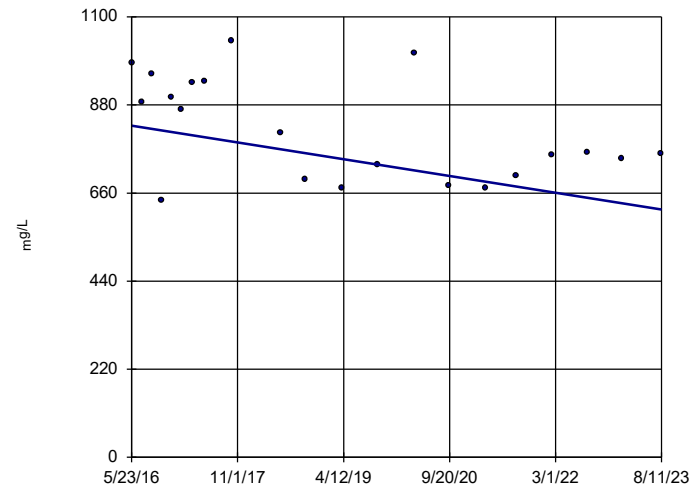


n = 21
Slope = 44.64 units per year.
Mann-Kendall statistic = 66
critical = 87
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-9



n = 21
Slope = -28.95 units per year.
Mann-Kendall statistic = -54
critical = -87
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2023 1:01 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/25/2023, 2:30 PM

| <u>Constituent</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bq N</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------------------|-------------------|-------------------|-------------|----------------|-------------|-------------|-------------|------------------|--------------|---------------------|
| Antimony (mg/L) | 0.003 | n/a | n/a | n/a | n/a | 88 | 81.82 | n/a | 0.01096 | NP Inter(NDs) |
| Arsenic (mg/L) | 0.005 | n/a | n/a | n/a | n/a | 94 | 68.09 | n/a | 0.008054 | NP Inter(NDs) |
| Barium (mg/L) | 0.46 | n/a | n/a | n/a | n/a | 94 | 0 | n/a | 0.008054 | NP Inter(normality) |
| Beryllium (mg/L) | 0.0005 | n/a | n/a | n/a | n/a | 88 | 78.41 | n/a | 0.01096 | NP Inter(NDs) |
| Cadmium (mg/L) | 0.0005 | n/a | n/a | n/a | n/a | 88 | 85.23 | n/a | 0.01096 | NP Inter(NDs) |
| Chromium (mg/L) | 0.0079 | n/a | n/a | n/a | n/a | 88 | 84.09 | n/a | 0.01096 | NP Inter(NDs) |
| Cobalt (mg/L) | 0.038 | n/a | n/a | n/a | n/a | 88 | 71.59 | n/a | 0.01096 | NP Inter(NDs) |
| Combined Radium 226 + 228 (pCi/L) | 4.36 | n/a | n/a | n/a | n/a | 94 | 0 | n/a | 0.008054 | NP Inter(normality) |
| Fluoride (mg/L) | 1.3 | n/a | n/a | n/a | n/a | 99 | 27.27 | n/a | 0.006232 | NP Inter(normality) |
| Lead (mg/L) | 0.001 | n/a | n/a | n/a | n/a | 85 | 70.59 | n/a | 0.01278 | NP Inter(NDs) |
| Lithium (mg/L) | 0.064 | n/a | n/a | n/a | n/a | 93 | 19.35 | n/a | 0.008478 | NP Inter(normality) |
| Mercury (mg/L) | 0.0002 | n/a | n/a | n/a | n/a | 66 | 96.97 | n/a | 0.03387 | NP Inter(NDs) |
| Molybdenum (mg/L) | 0.01 | n/a | n/a | n/a | n/a | 96 | 77.08 | n/a | 0.007269 | NP Inter(NDs) |
| Selenium (mg/L) | 0.005 | n/a | n/a | n/a | n/a | 94 | 96.81 | n/a | 0.008054 | NP Inter(NDs) |
| Thallium (mg/L) | 0.001 | n/a | n/a | n/a | n/a | 94 | 98.94 | n/a | 0.008054 | NP Inter(NDs) |

FIGURE G.

| PLANT HAMMOND AP-1 GWPS | | | | |
|--------------------------------|------------|---------------------------|-------------------------|-------------|
| Constituent Name | MCL | CCR-Rule Specified | Background Limit | GWPS |
| Antimony, Total (mg/L) | 0.006 | | 0.003 | 0.006 |
| Arsenic, Total (mg/L) | 0.01 | | 0.005 | 0.01 |
| Barium, Total (mg/L) | 2 | | 0.46 | 2 |
| Beryllium, Total (mg/L) | 0.004 | | 0.0005 | 0.004 |
| Cadmium, Total (mg/L) | 0.005 | | 0.0005 | 0.005 |
| Chromium, Total (mg/L) | 0.1 | | 0.0079 | 0.1 |
| Cobalt, Total (mg/L) | n/a | 0.006 | 0.038 | 0.038 |
| Combined Radium, Total (pCi/L) | 5 | | 4.36 | 5 |
| Fluoride, Total (mg/L) | 4 | | 1.3 | 4 |
| Lead, Total (mg/L) | n/a | 0.015 | 0.001 | 0.015 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.064 | 0.064 |
| Mercury, Total (mg/L) | 0.002 | | 0.0002 | 0.002 |
| Molybdenum, Total (mg/L) | n/a | 0.1 | 0.01 | 0.1 |
| Selenium, Total (mg/L) | 0.05 | | 0.005 | 0.05 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 0.002 |

**Grey cell indicates background is higher than MCL or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Intervals Summary Table - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/25/2023, 2:35 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. N | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------|---------|------------|------------|------------|--------|-----------|------|---------|-----------|-------|--------|
| Arsenic (mg/L) | HGWC-13 | 0.4387 | 0.3671 | 0.01 | Yes 24 | 0.07021 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-8 | 0.4809 | 0.4128 | 0.1 | Yes 25 | 0.0683 | 0 | None | No | 0.01 | Param. |

Confidence Intervals Summary Table - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/25/2023, 2:35 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------|----------------|---------------|---------------|-------------|------------|-----------|----------------|----------|--------------|-----------|-------------|----------------|
| Antimony (mg/L) | HGWC-10 | 0.003 | 0.0018 | 0.006 | No | 22 | 0.0005516 | 90.91 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-11 | 0.003 | 0.00038 | 0.006 | No | 22 | 0.0005586 | 95.45 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-13 | 0.003 | 0.00049 | 0.006 | No | 22 | 0.001246 | 68.18 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-7 | 0.003 | 0.0017 | 0.006 | No | 23 | 0.0006062 | 91.3 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-8 | 0.003 | 0.00064 | 0.006 | No | 22 | 0.0005032 | 95.45 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-9 | 0.003 | 0.00092 | 0.006 | No | 22 | 0.0009833 | 81.82 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-24D | 0.003 | 0.0017 | 0.006 | No | 13 | 0.0003606 | 92.31 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-26D | 0.003 | 0.002 | 0.006 | No | 13 | 0.0005267 | 84.62 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-27D | 0.003 | 0.0003 | 0.006 | No | 13 | 0.0014 | 53.85 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-28D | 0.003 | 0.0019 | 0.006 | No | 13 | 0.0003051 | 92.31 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-29 | 0.003 | 0.00094 | 0.006 | No | 13 | 0.0005713 | 92.31 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-6 | 0.003 | 0.0014 | 0.006 | No | 13 | 0.0004438 | 92.31 | None | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | MW-7 | 0.003 | 0.00086 | 0.006 | No | 13 | 0.0009336 | 69.23 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | HGWC-11 | 0.005 | 0.0018 | 0.01 | No | 24 | 0.001712 | 50 | None | No | 0.01 | NP (normality) |
| Arsenic (mg/L) | HGWC-12 | 0.00412 | 0.002863 | 0.01 | No | 24 | 0.001231 | 12.5 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | HGWC-13 | 0.4387 | 0.3671 | 0.01 | Yes | 24 | 0.07021 | 0 | None | No | 0.01 | Param. |
| Arsenic (mg/L) | HGWC-7 | 0.005 | 0.0019 | 0.01 | No | 25 | 0.00062 | 96 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | HGWC-8 | 0.005 | 0.002 | 0.01 | No | 24 | 0.0006124 | 95.83 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | HGWC-9 | 0.005 | 0.0021 | 0.01 | No | 24 | 0.001545 | 83.33 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-19 | 0.005 | 0.00045 | 0.01 | No | 13 | 0.001262 | 92.31 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-20 | 0.005 | 0.00094 | 0.01 | No | 13 | 0.001712 | 76.92 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-25D | 0.005 | 0.001 | 0.01 | No | 13 | 0.001848 | 69.23 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-26D | 0.005 | 0.0008 | 0.01 | No | 13 | 0.001756 | 76.92 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-27D | 0.005 | 0.00069 | 0.01 | No | 13 | 0.001923 | 76.92 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-28D | 0.005 | 0.0011 | 0.01 | No | 13 | 0.001082 | 92.31 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-29 | 0.005 | 0.00037 | 0.01 | No | 13 | 0.001284 | 92.31 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-5 | 0.005 | 0.0013 | 0.01 | No | 13 | 0.001026 | 92.31 | None | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | MW-6 | 0.005 | 0.0034 | 0.01 | No | 13 | 0.0004438 | 92.31 | None | No | 0.01 | NP (NDs) |
| Barium (mg/L) | HGWC-10 | 0.08272 | 0.06105 | 2 | No | 24 | 0.02124 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-11 | 0.04951 | 0.03242 | 2 | No | 24 | 0.01881 | 0 | None | sqrt(x) | 0.01 | Param. |
| Barium (mg/L) | HGWC-12 | 0.123 | 0.083 | 2 | No | 24 | 0.02115 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | HGWC-13 | 0.08714 | 0.06691 | 2 | No | 24 | 0.01983 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-7 | 0.07342 | 0.06746 | 2 | No | 25 | 0.005986 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-8 | 0.07264 | 0.06129 | 2 | No | 24 | 0.01126 | 0 | None | sqrt(x) | 0.01 | Param. |
| Barium (mg/L) | HGWC-9 | 0.1176 | 0.09867 | 2 | No | 24 | 0.01858 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-19 | 0.0607 | 0.04361 | 2 | No | 13 | 0.0115 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-20 | 0.09542 | 0.08658 | 2 | No | 13 | 0.005944 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-24D | 0.081 | 0.048 | 2 | No | 13 | 0.0202 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | MW-25D | 0.6136 | 0.4295 | 2 | No | 13 | 0.1238 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-26D | 0.1178 | 0.07123 | 2 | No | 13 | 0.03134 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-27D | 1.2 | 0.94 | 2 | No | 13 | 0.1555 | 0 | None | No | 0.01 | NP (normality) |
| Barium (mg/L) | MW-28D | 0.9551 | 0.3145 | 2 | No | 13 | 0.5193 | 0 | None | sqrt(x) | 0.01 | Param. |
| Barium (mg/L) | MW-29 | 0.08303 | 0.07389 | 2 | No | 13 | 0.006146 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-5 | 0.05173 | 0.04488 | 2 | No | 13 | 0.004608 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-6 | 0.08986 | 0.07753 | 2 | No | 13 | 0.00829 | 0 | None | No | 0.01 | Param. |
| Barium (mg/L) | MW-7 | 0.06144 | 0.04979 | 2 | No | 13 | 0.007837 | 0 | None | No | 0.01 | Param. |
| Beryllium (mg/L) | HGWC-11 | 0.0005 | 0.00012 | 0.004 | No | 22 | 0.000194 | 63.64 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | HGWC-13 | 0.0005 | 0.000097 | 0.004 | No | 22 | 0.0002075 | 54.55 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | HGWC-7 | 0.0005 | 0.00019 | 0.004 | No | 23 | 0.0001336 | 86.96 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | HGWC-8 | 0.0005 | 0.000078 | 0.004 | No | 22 | 0.0002099 | 63.64 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | MW-19 | 0.0005 | 0.000058 | 0.004 | No | 13 | 0.0001226 | 92.31 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | MW-28D | 0.0005 | 0.000054 | 0.004 | No | 13 | 0.0001851 | 76.92 | None | No | 0.01 | NP (NDs) |
| Beryllium (mg/L) | MW-7 | 0.0005 | 0.000051 | 0.004 | No | 13 | 0.0001245 | 92.31 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | HGWC-10 | 0.0005 | 0.000115 | 0.005 | No | 22 | 0.0001839 | 68.18 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | HGWC-11 | 0.0005 | 0.0001 | 0.005 | No | 22 | 0.000141 | 86.36 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | HGWC-12 | 0.0005 | 0.0003 | 0.005 | No | 22 | 0.0001288 | 81.82 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | HGWC-7 | 0.0005 | 0.0002 | 0.005 | No | 23 | 0.0001371 | 78.26 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | HGWC-8 | 0.0003 | 0.00017 | 0.005 | No | 22 | 0.0003292 | 4.545 | None | No | 0.01 | NP (normality) |
| Cadmium (mg/L) | HGWC-9 | 0.0005 | 0.0002 | 0.005 | No | 22 | 0.000134 | 86.36 | None | No | 0.01 | NP (NDs) |
| Cadmium (mg/L) | MW-19 | 0.0003198 | 0.0001473 | 0.005 | No | 13 | 0.0002661 | 23.08 | Kaplan-Meier | ln(x) | 0.01 | Param. |
| Chromium (mg/L) | HGWC-10 | 0.02 | 0.0012 | 0.1 | No | 22 | 0.003466 | 86.36 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-11 | 0.005 | 0.0012 | 0.1 | No | 22 | 0.001516 | 86.36 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-12 | 0.005 | 0.0025 | 0.1 | No | 22 | 0.001353 | 86.36 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-13 | 0.005 | 0.00059 | 0.1 | No | 22 | 0.001575 | 86.36 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-7 | 0.005 | 0.0021 | 0.1 | No | 23 | 0.01408 | 69.57 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-8 | 0.005 | 0.0015 | 0.1 | No | 22 | 0.001635 | 81.82 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-9 | 0.005 | 0.0013 | 0.1 | No | 22 | 0.001625 | 81.82 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-19 | 0.005 | 0.00059 | 0.1 | No | 13 | 0.002083 | 53.85 | None | No | 0.01 | NP (NDs) |

Confidence Intervals Summary Table - All Results

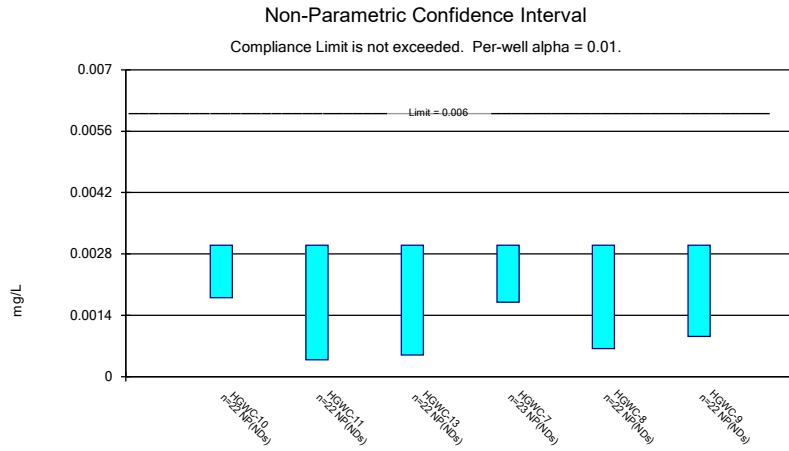
Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/25/2023, 2:35 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|---------|------------|------------|------------|------|----|-----------|-------|--------------|-----------|-------|----------------|
| Chromium (mg/L) | MW-20 | 0.005 | 0.00068 | 0.1 | No | 13 | 0.001915 | 76.92 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-24D | 0.005 | 0.0017 | 0.1 | No | 13 | 0.001502 | 84.62 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-25D | 0.005 | 0.0012 | 0.1 | No | 13 | 0.001543 | 84.62 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-26D | 0.005 | 0.001 | 0.1 | No | 13 | 0.001878 | 61.54 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-27D | 0.005 | 0.00082 | 0.1 | No | 13 | 0.001592 | 84.62 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-28D | 0.005 | 0.00081 | 0.1 | No | 13 | 0.001991 | 53.85 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-29 | 0.005 | 0.001 | 0.1 | No | 13 | 0.001109 | 92.31 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-5 | 0.003816 | 0.002199 | 0.1 | No | 13 | 0.001087 | 0 | None | No | 0.01 | Param. |
| Chromium (mg/L) | MW-6 | 0.005 | 0.00059 | 0.1 | No | 13 | 0.001849 | 76.92 | None | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | MW-7 | 0.0023 | 0.0015 | 0.1 | No | 13 | 0.001259 | 15.38 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | HGWC-10 | 0.005 | 0.0012 | 0.038 | No | 22 | 0.001933 | 72.73 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | HGWC-11 | 0.005 | 0.0014 | 0.038 | No | 22 | 0.001801 | 45.45 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | HGWC-12 | 0.0017 | 0.0012 | 0.038 | No | 22 | 0.001094 | 9.091 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | HGWC-13 | 0.0042 | 0.0026 | 0.038 | No | 22 | 0.003718 | 4.545 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | HGWC-7 | 0.001586 | 0.0007039 | 0.038 | No | 23 | 0.001483 | 13.04 | None | ln(x) | 0.01 | Param. |
| Cobalt (mg/L) | HGWC-8 | 0.0023 | 0.0019 | 0.038 | No | 22 | 0.003091 | 9.091 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | HGWC-9 | 0.0007 | 0.00053 | 0.038 | No | 22 | 0.00131 | 9.091 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | MW-19 | 0.04072 | 0.02913 | 0.038 | No | 13 | 0.007794 | 0 | None | No | 0.01 | Param. |
| Cobalt (mg/L) | MW-20 | 0.005 | 0.0011 | 0.038 | No | 13 | 0.001082 | 92.31 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MW-24D | 0.005 | 0.00056 | 0.038 | No | 13 | 0.001921 | 76.92 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MW-26D | 0.005 | 0.00044 | 0.038 | No | 13 | 0.002295 | 38.46 | None | No | 0.01 | NP (normality) |
| Cobalt (mg/L) | MW-27D | 0.005 | 0.0004 | 0.038 | No | 13 | 0.002057 | 76.92 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MW-28D | 0.005 | 0.00093 | 0.038 | No | 13 | 0.001129 | 92.31 | None | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | MW-29 | 0.001421 | 0.0007121 | 0.038 | No | 13 | 0.0005295 | 7.692 | None | sqrt(x) | 0.01 | Param. |
| Cobalt (mg/L) | MW-6 | 0.00094 | 0.00041 | 0.038 | No | 13 | 0.001694 | 15.38 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | HGWC-10 | 1.056 | 0.6144 | 5 | No | 24 | 0.4326 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-11 | 1.106 | 0.6289 | 5 | No | 24 | 0.4677 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-12 | 1.009 | 0.5651 | 5 | No | 24 | 0.4347 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-13 | 0.9631 | 0.5954 | 5 | No | 24 | 0.3603 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-7 | 0.8357 | 0.428 | 5 | No | 25 | 0.4663 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-8 | 0.9454 | 0.6612 | 5 | No | 24 | 0.2785 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-9 | 0.8903 | 0.543 | 5 | No | 24 | 0.3403 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-19 | 0.9195 | 0.413 | 5 | No | 13 | 0.3406 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-20 | 0.9599 | 0.396 | 5 | No | 13 | 0.3792 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-24D | 0.5693 | 0.1574 | 5 | No | 13 | 0.3358 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-25D | 1.252 | 0.8297 | 5 | No | 13 | 0.2841 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-26D | 0.8929 | 0.1581 | 5 | No | 13 | 0.4941 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-27D | 1.479 | 0.7939 | 5 | No | 13 | 0.51 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-28D | 1.616 | 0.6323 | 5 | No | 13 | 0.6615 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-29 | 0.8957 | 0.3631 | 5 | No | 13 | 0.3582 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-5 | 0.9444 | 0.5523 | 5 | No | 13 | 0.2637 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-6 | 0.872 | 0.493 | 5 | No | 13 | 0.4313 | 0 | None | No | 0.01 | NP (normality) |
| Combined Radium 226 + 228 (pCi/L) | MW-7 | 1.127 | 0.4685 | 5 | No | 13 | 0.4429 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-10 | 0.1782 | 0.07724 | 4 | No | 25 | 0.1313 | 16 | Kaplan-Meier | x^(1/3) | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-11 | 0.3899 | 0.2407 | 4 | No | 25 | 0.1605 | 0 | None | sqrt(x) | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-12 | 0.31 | 0.17 | 4 | No | 25 | 0.2299 | 4 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | HGWC-13 | 0.6761 | 0.4894 | 4 | No | 25 | 0.1872 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-7 | 0.15 | 0.083 | 4 | No | 27 | 0.1041 | 7.407 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | HGWC-8 | 0.6099 | 0.4748 | 4 | No | 26 | 0.1673 | 0 | None | ln(x) | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-9 | 0.233 | 0.103 | 4 | No | 25 | 0.1473 | 8 | None | sqrt(x) | 0.01 | Param. |
| Fluoride (mg/L) | MW-19 | 0.2368 | 0.108 | 4 | No | 13 | 0.1242 | 0 | None | ln(x) | 0.01 | Param. |
| Fluoride (mg/L) | MW-20 | 0.1 | 0.074 | 4 | No | 13 | 0.01084 | 76.92 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | MW-24D | 0.09377 | 0.05216 | 4 | No | 13 | 0.03452 | 30.77 | Kaplan-Meier | sqrt(x) | 0.01 | Param. |
| Fluoride (mg/L) | MW-25D | 1.7 | 1.5 | 4 | No | 13 | 0.1951 | 0 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | MW-26D | 0.1221 | 0.05944 | 4 | No | 13 | 0.04213 | 7.692 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | MW-27D | 0.3 | 0.24 | 4 | No | 13 | 0.05003 | 0 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | MW-28D | 0.2443 | 0.1696 | 4 | No | 13 | 0.05023 | 0 | None | No | 0.01 | Param. |
| Fluoride (mg/L) | MW-29 | 0.18 | 0.068 | 4 | No | 13 | 0.03156 | 61.54 | None | No | 0.01 | NP (NDs) |
| Fluoride (mg/L) | MW-5 | 0.08458 | 0.05951 | 4 | No | 13 | 0.01921 | 15.38 | Kaplan-Meier | No | 0.01 | Param. |
| Fluoride (mg/L) | MW-6 | 0.15 | 0.055 | 4 | No | 13 | 0.0496 | 15.38 | None | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | MW-7 | 0.17 | 0.069 | 4 | No | 13 | 0.02567 | 69.23 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-10 | 0.001 | 0.00005 | 0.015 | No | 20 | 0.0002124 | 95 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-11 | 0.001 | 0.0003 | 0.015 | No | 20 | 0.0003911 | 70 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-12 | 0.001 | 0.00043 | 0.015 | No | 20 | 0.0003856 | 75 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-13 | 0.001 | 0.00015 | 0.015 | No | 20 | 0.0004088 | 70 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-7 | 0.001 | 0.0001 | 0.015 | No | 21 | 0.0004263 | 57.14 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-8 | 0.001 | 0.0002 | 0.015 | No | 20 | 0.000357 | 80 | None | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-9 | 0.001 | 0.0002 | 0.015 | No | 20 | 0.0004221 | 60 | None | No | 0.01 | NP (NDs) |

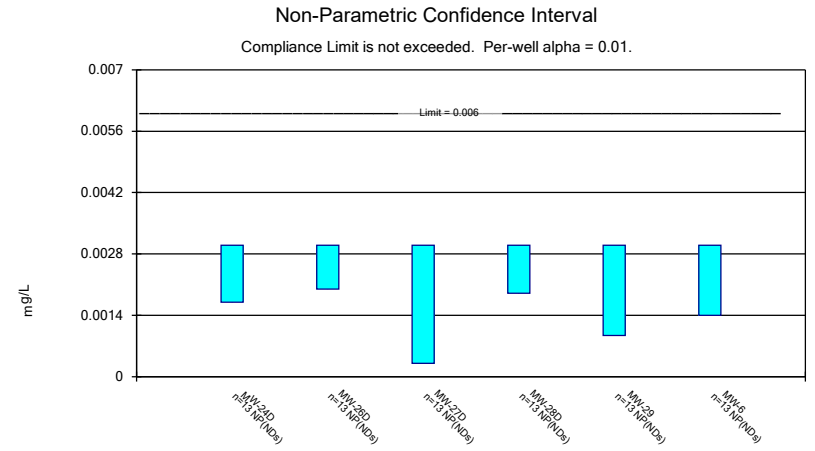
Confidence Intervals Summary Table - All Results

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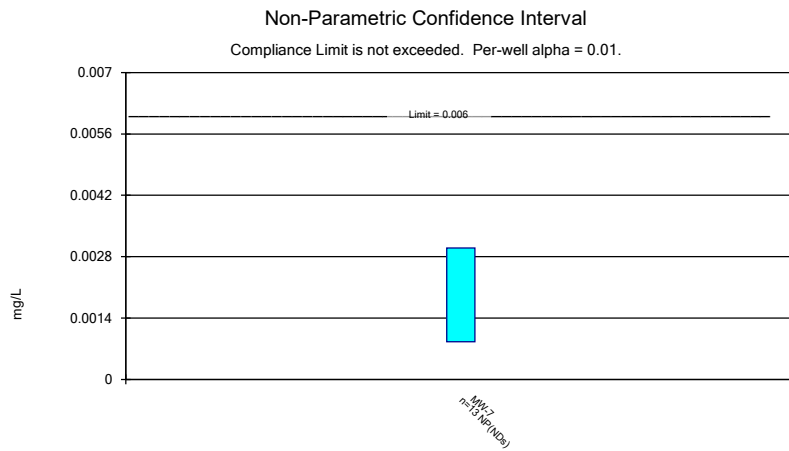
| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|--------------------------|---------------|---------------|---------------|------------|------------|-----------|---------------|----------|--------------|-----------|-------------|----------------|
| Lead (mg/L) | MW-19 | 0.001 | 0.000071 | 0.015 | No | 11 | 0.0004665 | 63.64 | None | No | 0.006 | NP (NDs) |
| Lead (mg/L) | MW-20 | 0.001 | 0.0001 | 0.015 | No | 11 | 0.0004502 | 63.64 | None | No | 0.006 | NP (NDs) |
| Lead (mg/L) | MW-24D | 0.001 | 0.000042 | 0.015 | No | 11 | 0.0004763 | 54.55 | None | No | 0.006 | NP (NDs) |
| Lead (mg/L) | MW-26D | 0.001 | 0.0001 | 0.015 | No | 11 | 0.0003681 | 81.82 | None | No | 0.006 | NP (NDs) |
| Lead (mg/L) | MW-27D | 0.001 | 0.00043 | 0.015 | No | 11 | 0.0002989 | 81.82 | None | No | 0.006 | NP (NDs) |
| Lead (mg/L) | MW-28D | 0.001 | 0.00018 | 0.015 | No | 11 | 0.0003867 | 54.55 | None | No | 0.006 | NP (NDs) |
| Lead (mg/L) | MW-29 | 0.001 | 0.00009 | 0.015 | No | 11 | 0.0004281 | 72.73 | None | No | 0.006 | NP (NDs) |
| Lead (mg/L) | MW-5 | 0.001 | 0.001 | 0.015 | No | 11 | 0.0002873 | 90.91 | None | No | 0.006 | NP (NDs) |
| Lead (mg/L) | MW-6 | 0.001 | 0.000084 | 0.015 | No | 11 | 0.0004433 | 63.64 | None | No | 0.006 | NP (NDs) |
| Lead (mg/L) | MW-7 | 0.001 | 0.001 | 0.015 | No | 11 | 0.0002828 | 90.91 | None | No | 0.006 | NP (NDs) |
| Lithium (mg/L) | HGWC-12 | 0.01036 | 0.007988 | 0.064 | No | 24 | 0.002326 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | HGWC-13 | 0.03837 | 0.03131 | 0.064 | No | 24 | 0.006919 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | HGWC-7 | 0.0026 | 0.0021 | 0.064 | No | 25 | 0.004541 | 4 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | HGWC-8 | 0.0029 | 0.0025 | 0.064 | No | 24 | 0.004593 | 4.167 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | HGWC-9 | 0.0044 | 0.004 | 0.064 | No | 24 | 0.004295 | 4.167 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | MW-19 | 0.01289 | 0.008115 | 0.064 | No | 13 | 0.003208 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MW-20 | 0.03 | 0.00082 | 0.064 | No | 13 | 0.01389 | 30.77 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | MW-24D | 0.002867 | 0.002564 | 0.064 | No | 13 | 0.0002035 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MW-25D | 0.04964 | 0.04206 | 0.064 | No | 13 | 0.005097 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MW-26D | 0.0041 | 0.0031 | 0.064 | No | 13 | 0.007354 | 0 | None | No | 0.01 | NP (normality) |
| Lithium (mg/L) | MW-27D | 0.008425 | 0.006344 | 0.064 | No | 13 | 0.001399 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MW-28D | 0.01331 | 0.007708 | 0.064 | No | 13 | 0.003765 | 0 | None | No | 0.01 | Param. |
| Lithium (mg/L) | MW-29 | 0.002328 | 0.00201 | 0.064 | No | 13 | 0.0002136 | 0 | None | No | 0.01 | Param. |
| Mercury (mg/L) | HGWC-10 | 0.0002 | 0.00005 | 0.002 | No | 16 | 0.0000375 | 93.75 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | HGWC-11 | 0.0002 | 0.00005 | 0.002 | No | 16 | 0.0000375 | 93.75 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | HGWC-13 | 0.0002 | 0.00005 | 0.002 | No | 16 | 0.00005297 | 87.5 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | HGWC-9 | 0.0002 | 0.00004 | 0.002 | No | 16 | 0.00004 | 93.75 | None | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | MW-25D | 0.0002 | 0.00013 | 0.002 | No | 7 | 0.00002646 | 85.71 | None | No | 0.008 | NP (NDs) |
| Mercury (mg/L) | MW-29 | 0.0002 | 0.00017 | 0.002 | No | 7 | 0.00001134 | 85.71 | None | No | 0.008 | NP (NDs) |
| Molybdenum (mg/L) | HGWC-10 | 0.01 | 0.0014 | 0.1 | No | 24 | 0.004388 | 58.33 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | HGWC-11 | 0.02588 | 0.01687 | 0.1 | No | 24 | 0.008837 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-12 | 0.04919 | 0.04574 | 0.1 | No | 24 | 0.003379 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-13 | 0.03496 | 0.0289 | 0.1 | No | 24 | 0.005941 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-7 | 0.04238 | 0.03571 | 0.1 | No | 26 | 0.006839 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-8 | 0.4809 | 0.4128 | 0.1 | Yes | 25 | 0.0683 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-9 | 0.033 | 0.0236 | 0.1 | No | 24 | 0.09178 | 0 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | MW-19 | 0.05113 | 0.02656 | 0.1 | No | 13 | 0.01652 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-24D | 0.01 | 0.0008 | 0.1 | No | 13 | 0.004341 | 30.77 | None | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | MW-25D | 0.01 | 0.0022 | 0.1 | No | 13 | 0.003176 | 84.62 | None | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | MW-26D | 0.02349 | 0.01194 | 0.1 | No | 14 | 0.008152 | 7.143 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-27D | 0.003468 | 0.001448 | 0.1 | No | 13 | 0.001521 | 7.692 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum (mg/L) | MW-28D | 0.01874 | 0.006572 | 0.1 | No | 13 | 0.008179 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-29 | 0.00326 | 0.002525 | 0.1 | No | 13 | 0.0004941 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-6 | 0.00269 | 0.00231 | 0.1 | No | 13 | 0.000255 | 0 | None | No | 0.01 | Param. |
| Molybdenum (mg/L) | MW-7 | 0.01 | 0.0014 | 0.1 | No | 13 | 0.004122 | 38.46 | None | No | 0.01 | NP (normality) |
| Selenium (mg/L) | HGWC-10 | 0.005 | 0.0031 | 0.05 | No | 24 | 0.001249 | 66.67 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-11 | 0.01372 | 0.006577 | 0.05 | No | 24 | 0.007001 | 0 | None | No | 0.01 | Param. |
| Selenium (mg/L) | HGWC-12 | 0.005 | 0.0011 | 0.05 | No | 24 | 0.0007961 | 95.83 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-13 | 0.005 | 0.0016 | 0.05 | No | 24 | 0.001179 | 91.67 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-8 | 0.005 | 0.0024 | 0.05 | No | 24 | 0.0005307 | 95.83 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-9 | 0.005 | 0.0037 | 0.05 | No | 24 | 0.0002654 | 95.83 | None | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MW-19 | 0.004794 | 0.002441 | 0.05 | No | 13 | 0.001637 | 15.38 | Kaplan-Meier | No | 0.01 | Param. |
| Selenium (mg/L) | MW-27D | 0.005 | 0.00012 | 0.05 | No | 13 | 0.001353 | 92.31 | Kaplan-Meier | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | MW-5 | 0.003635 | 0.002381 | 0.05 | No | 13 | 0.0008431 | 0 | None | No | 0.01 | Param. |
| Selenium (mg/L) | MW-7 | 0.005 | 0.0015 | 0.05 | No | 13 | 0.001707 | 53.85 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | HGWC-11 | 0.001 | 0.00008 | 0.002 | No | 24 | 0.0002597 | 91.67 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | HGWC-12 | 0.001 | 0.0002 | 0.002 | No | 24 | 0.000397 | 75 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | HGWC-13 | 0.0004223 | 0.0003342 | 0.002 | No | 24 | 0.00008631 | 8.333 | None | No | 0.01 | Param. |
| Thallium (mg/L) | HGWC-8 | 0.001 | 0.00011 | 0.002 | No | 24 | 0.0004205 | 70.83 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | MW-19 | 0.001 | 0.00023 | 0.002 | No | 13 | 0.0003787 | 38.46 | None | No | 0.01 | NP (normality) |
| Thallium (mg/L) | MW-28D | 0.001 | 0.000092 | 0.002 | No | 13 | 0.0002518 | 92.31 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | MW-29 | 0.001 | 0.000064 | 0.002 | No | 13 | 0.0002596 | 92.31 | None | No | 0.01 | NP (NDs) |
| Thallium (mg/L) | MW-6 | 0.001 | 0.000082 | 0.002 | No | 13 | 0.0002546 | 92.31 | None | No | 0.01 | NP (NDs) |



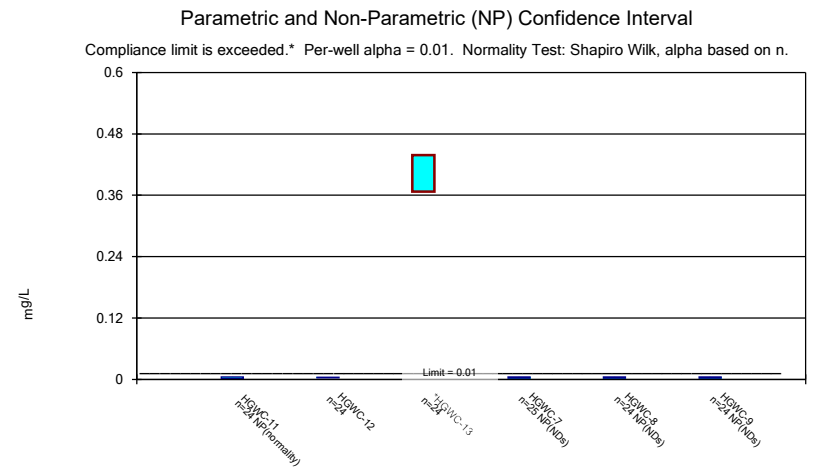
Constituent: Antimony Analysis Run 10/25/2023 2:33 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Antimony Analysis Run 10/25/2023 2:33 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-1



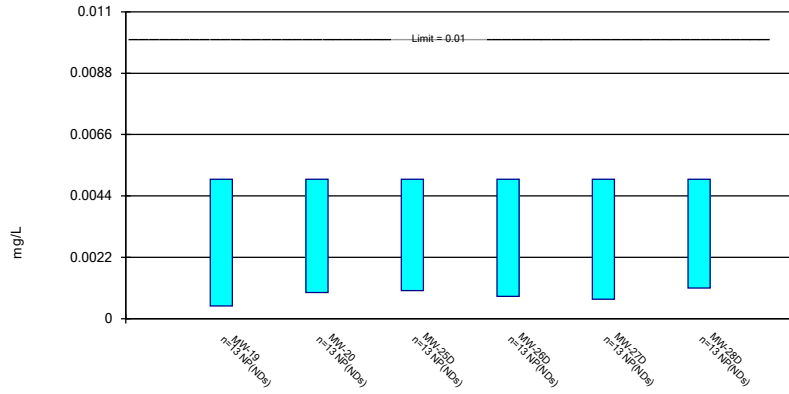
Constituent: Antimony Analysis Run 10/25/2023 2:33 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Arsenic Analysis Run 10/25/2023 2:33 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

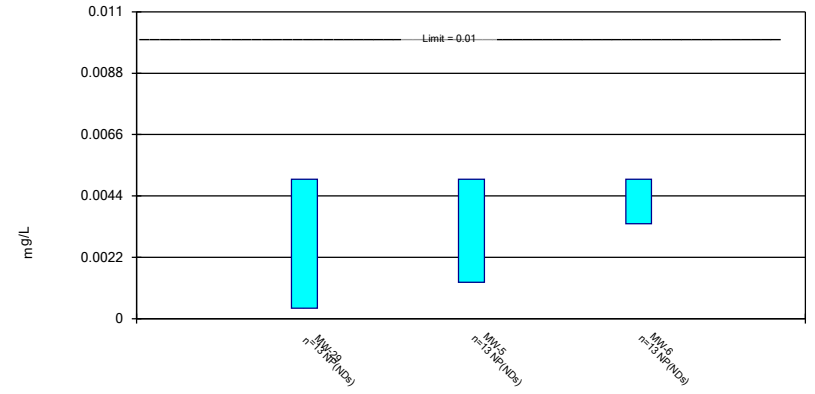
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Constituent: Arsenic Analysis Run 10/25/2023 2:33 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

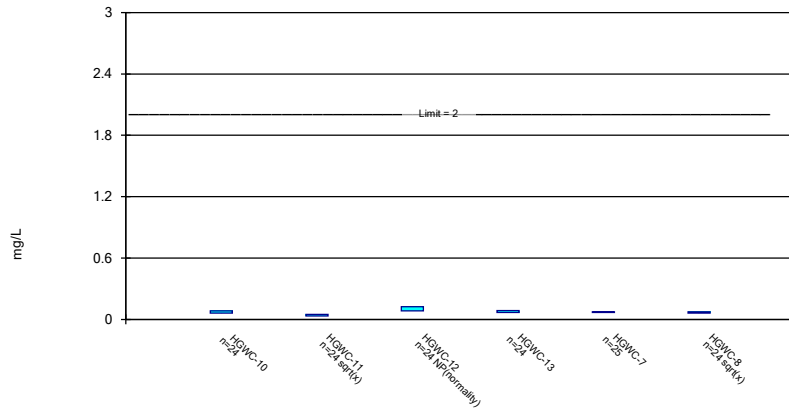
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 10/25/2023 2:33 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

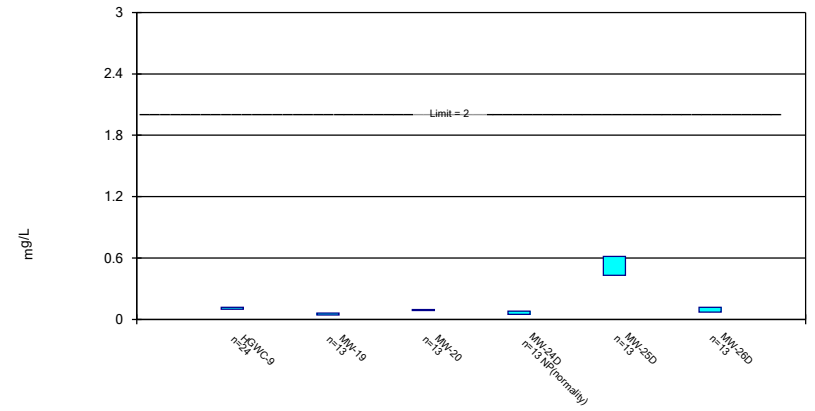
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/25/2023 2:33 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

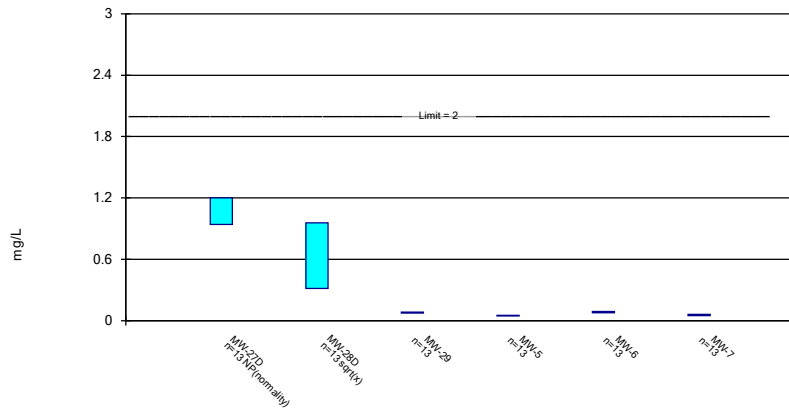
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/25/2023 2:33 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

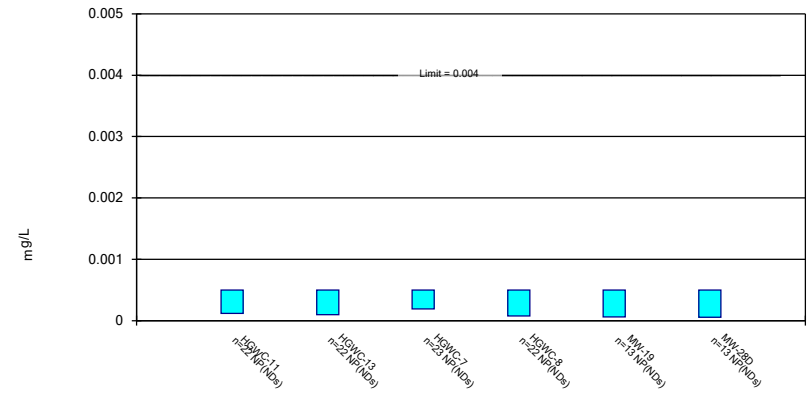
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/25/2023 2:33 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

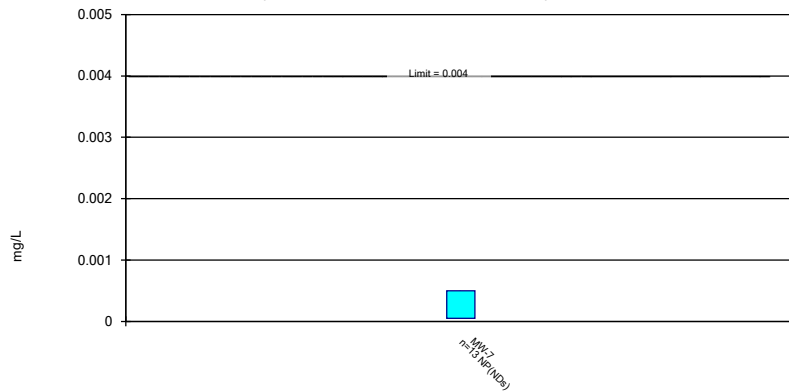
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 10/25/2023 2:33 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

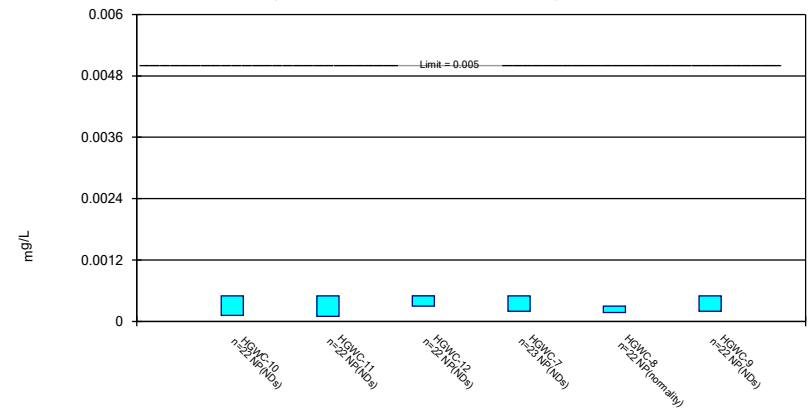
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 10/25/2023 2:33 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

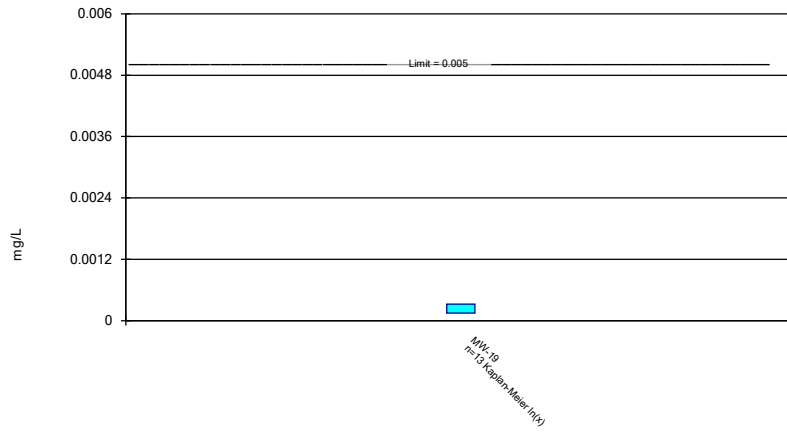
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 10/25/2023 2:33 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric Confidence Interval

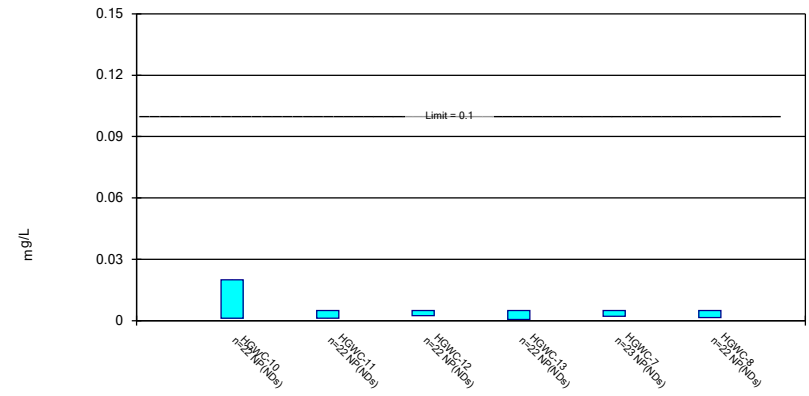
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 10/25/2023 2:33 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

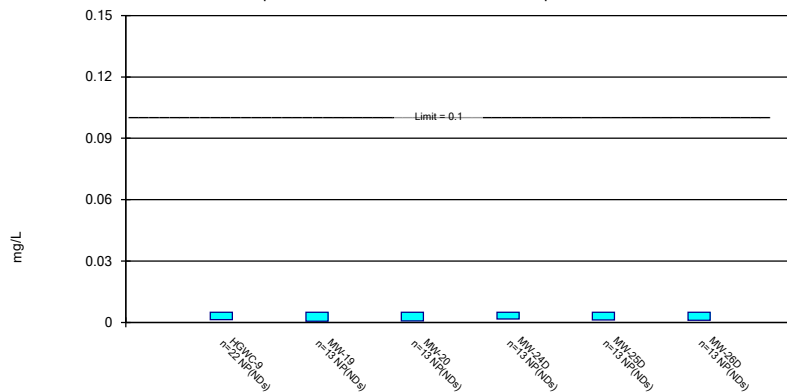
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 10/25/2023 2:33 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

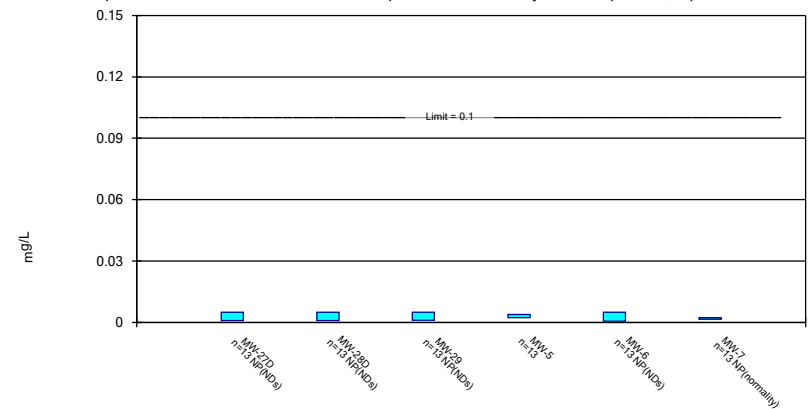
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Constituent: Chromium Analysis Run 10/25/2023 2:33 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

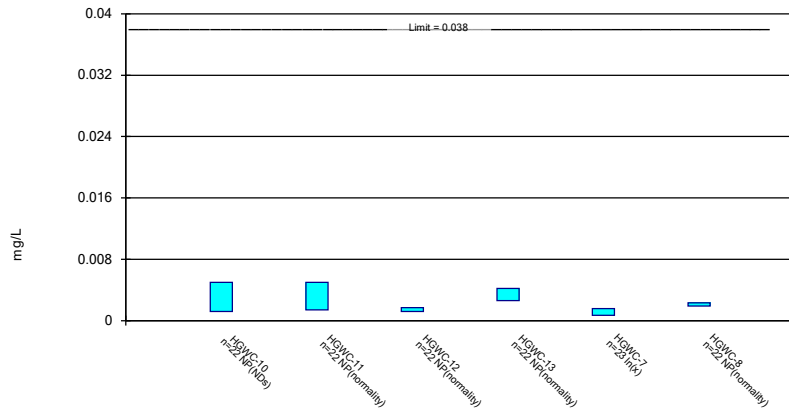
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 10/25/2023 2:33 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

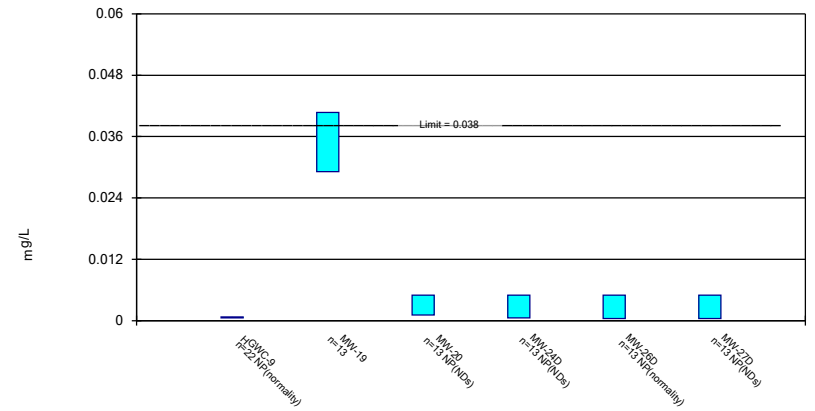
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Constituent: Cobalt Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

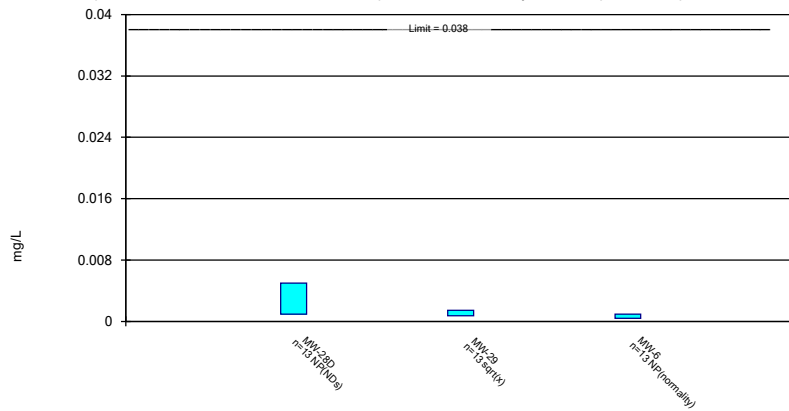
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Constituent: Cobalt Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

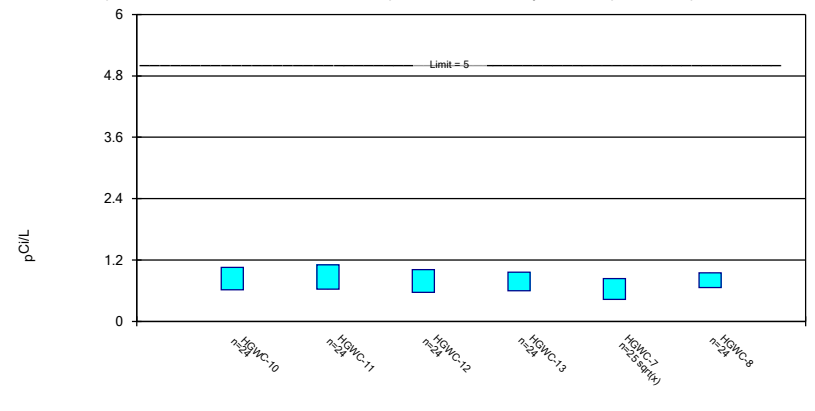
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Constituent: Cobalt Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric Confidence Interval

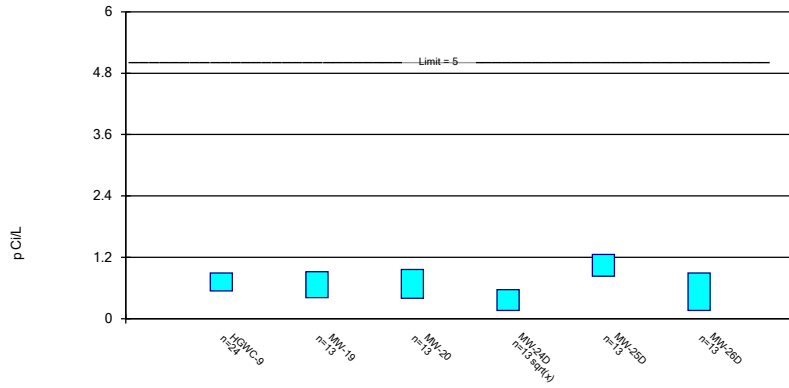
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Constituent: Combined Radium 226 + 228 Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confide
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric Confidence Interval

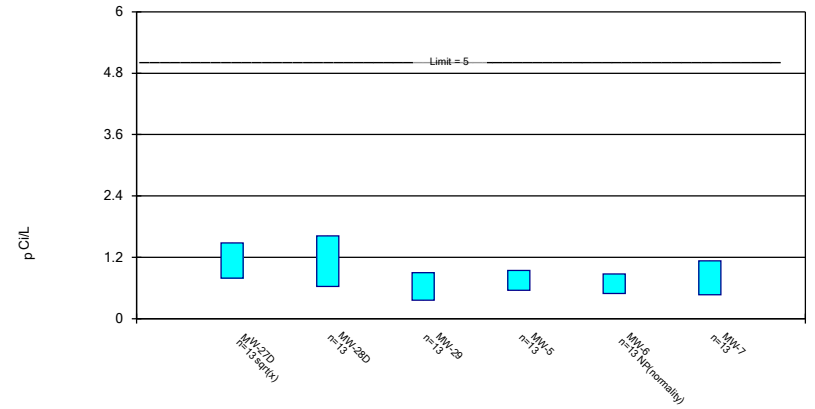
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Constituent: Combined Radium 226 + 228 Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confide
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

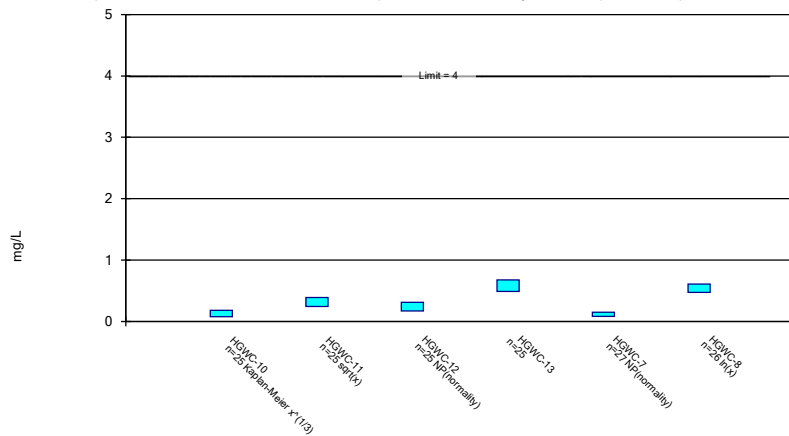
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Constituent: Combined Radium 226 + 228 Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confide
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

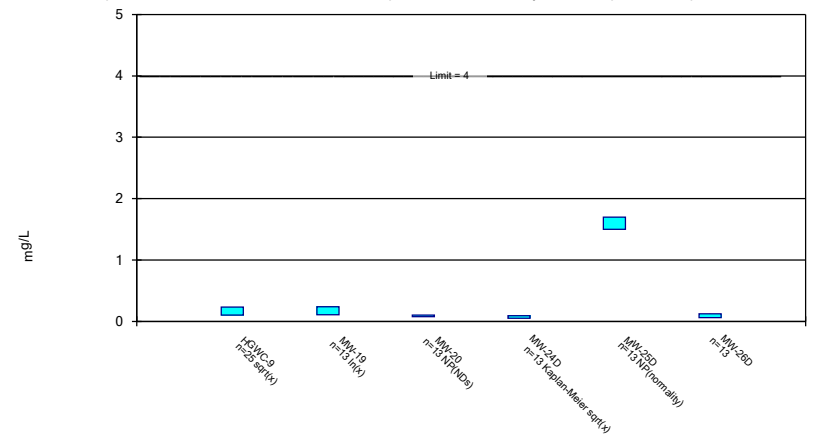
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Constituent: Fluoride Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

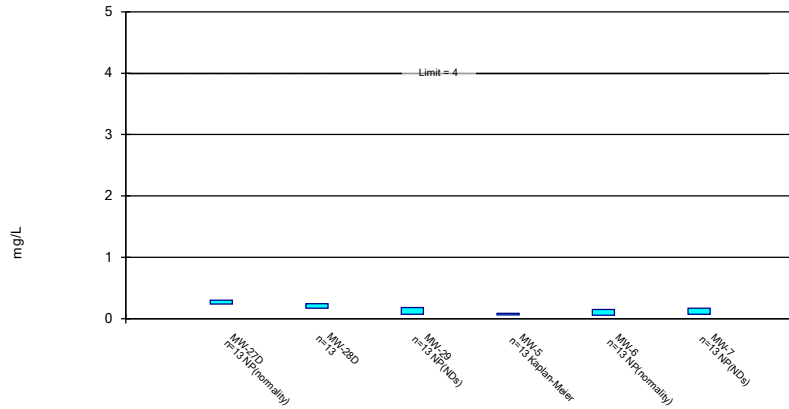
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Constituent: Fluoride Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

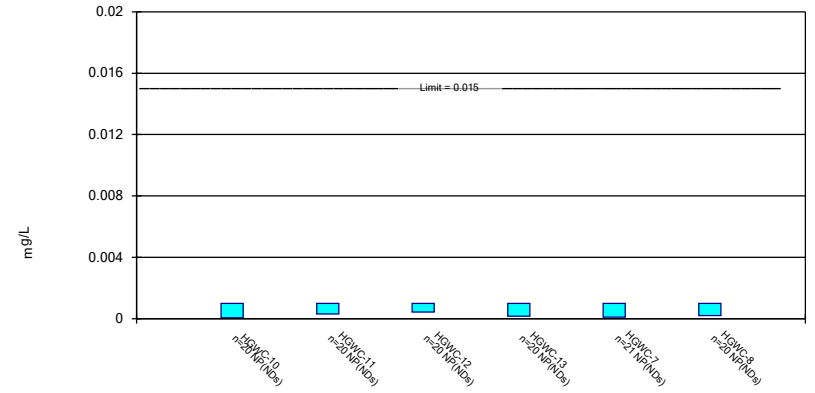
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Constituent: Fluoride Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

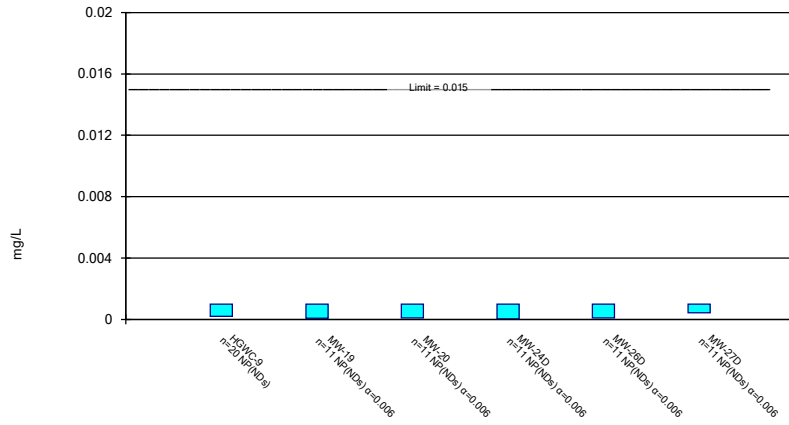
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Constituent: Lead Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

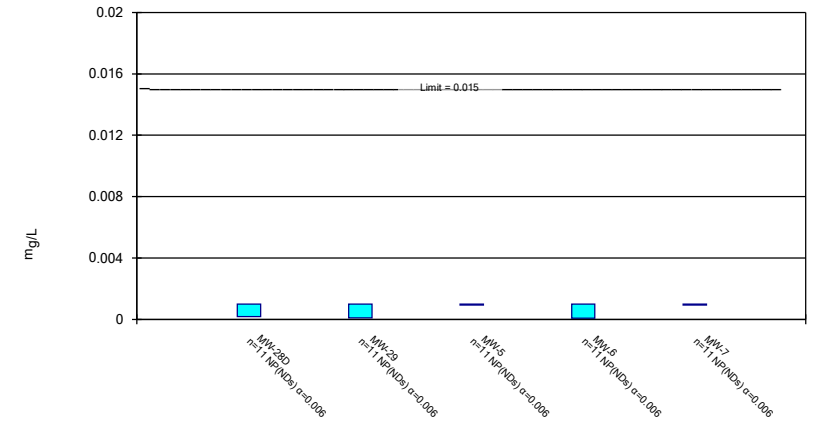
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

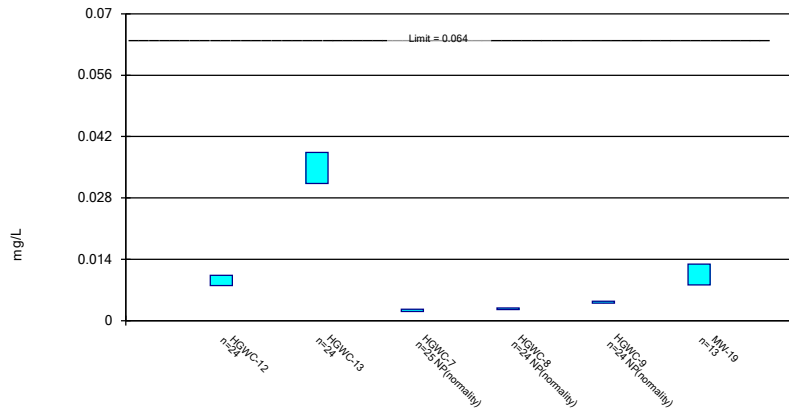
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

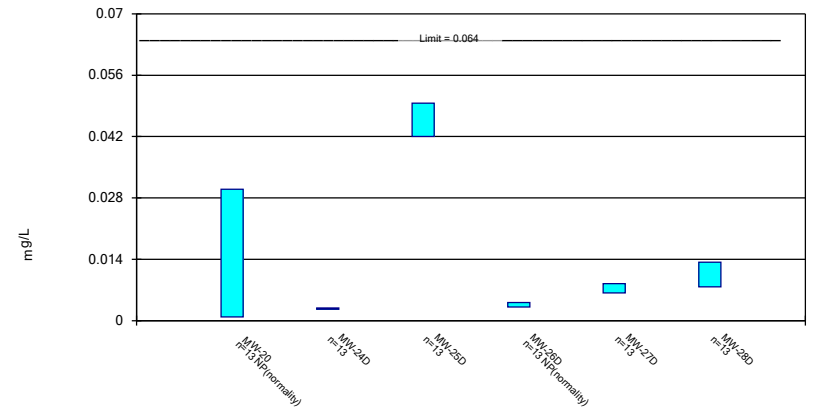
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Constituent: Lithium Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

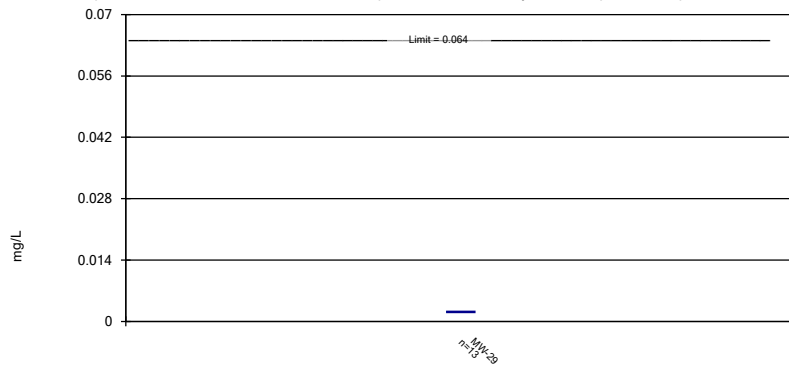
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Constituent: Lithium Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric Confidence Interval

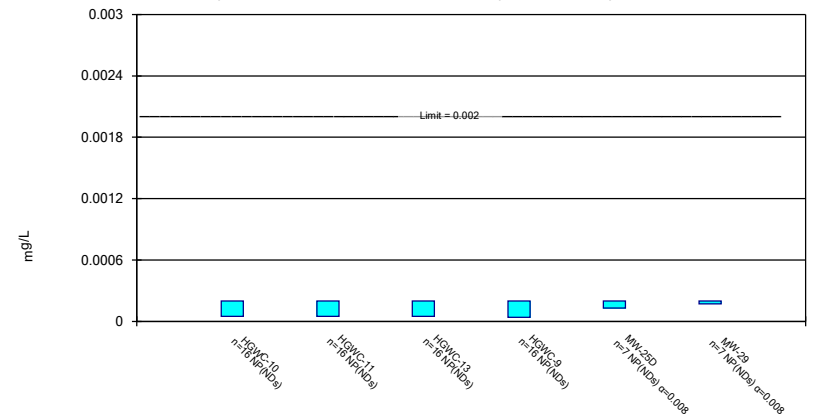
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Constituent: Lithium Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

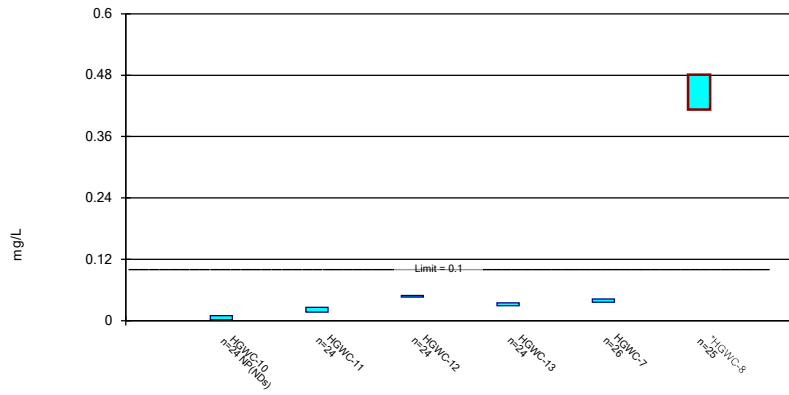
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

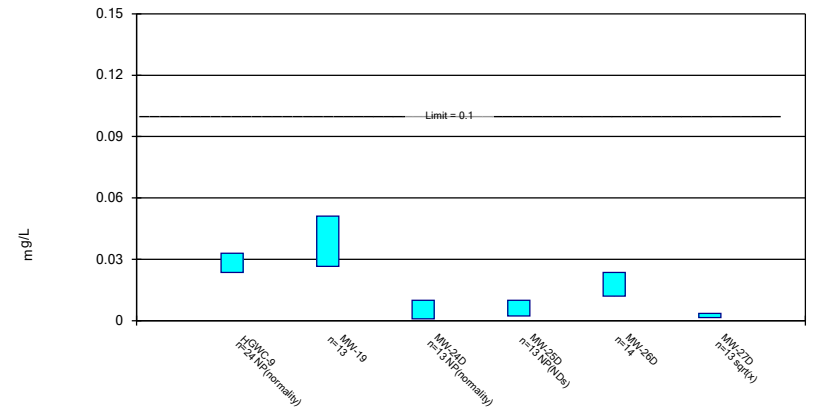
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

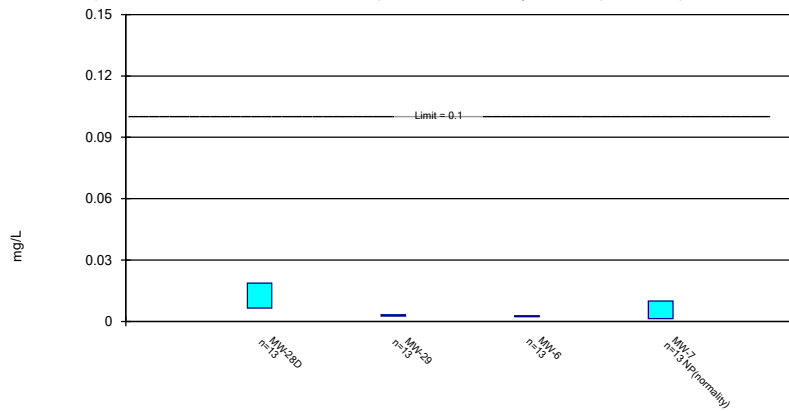
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

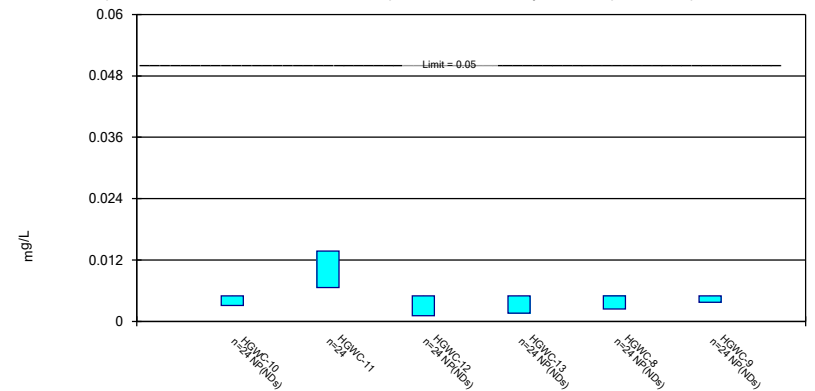
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

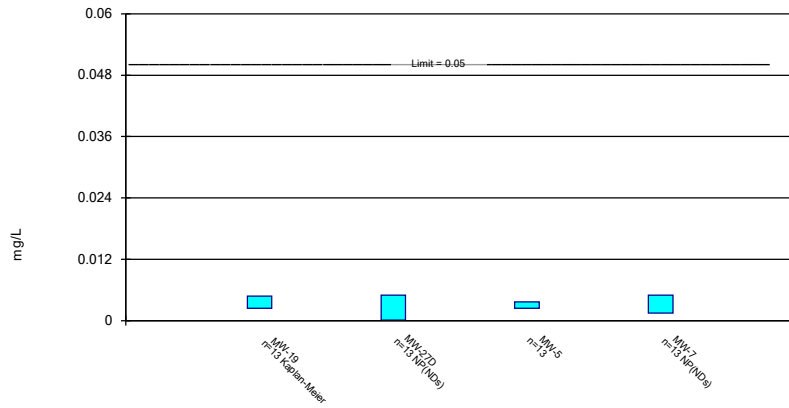
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

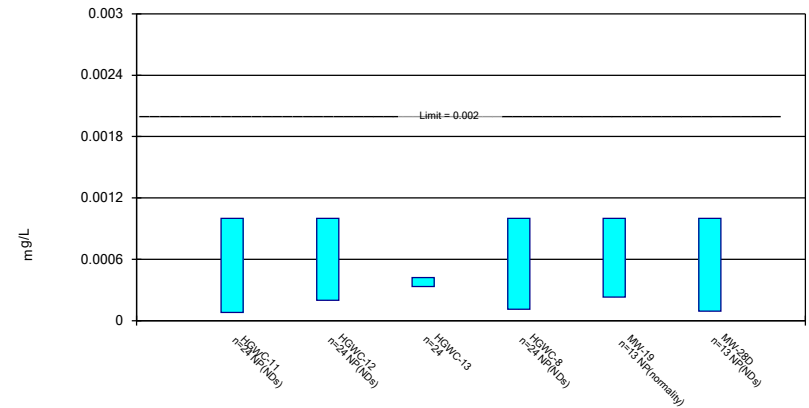
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

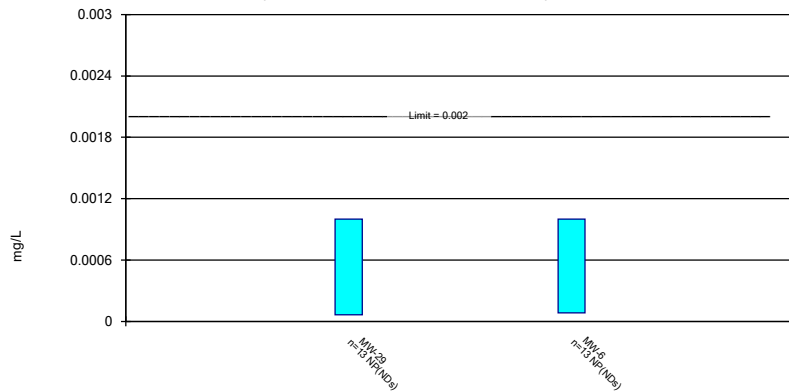
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 10/25/2023 2:34 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 5/20/2016 | | | | <0.003 | <0.003 | |
| 5/23/2016 | <0.003 | <0.003 | <0.003 | | | <0.003 |
| 7/12/2016 | <0.003 | <0.003 | 0.0003 (J) | <0.003 | <0.003 | <0.003 |
| 9/1/2016 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 |
| 10/20/2016 | | | | <0.003 | <0.003 | <0.003 |
| 10/24/2016 | <0.003 | <0.003 | <0.003 | | | |
| 12/6/2016 | | | | <0.003 | <0.003 | <0.003 |
| 12/7/2016 | <0.003 | <0.003 | <0.003 | | | |
| 1/25/2017 | | | | <0.003 | <0.003 | |
| 1/26/2017 | <0.003 | <0.003 | <0.003 | | | <0.003 |
| 3/21/2017 | | | | <0.003 | <0.003 | |
| 3/22/2017 | <0.003 | <0.003 | <0.003 | | | <0.003 |
| 5/23/2017 | | | | <0.003 | <0.003 | <0.003 |
| 5/24/2017 | <0.003 | <0.003 | <0.003 | | | |
| 4/3/2018 | | | | <0.003 | <0.003 | <0.003 |
| 4/4/2018 | <0.003 | <0.003 | <0.003 | | | |
| 3/12/2019 | | | | | <0.003 | |
| 3/13/2019 | <0.003 | <0.003 | <0.003 | <0.003 | | <0.003 |
| 4/2/2019 | | | | <0.003 | | |
| 4/3/2019 | <0.003 | <0.003 | | | <0.003 | <0.003 |
| 4/5/2019 | | | 0.00021 (J) | | | |
| 9/24/2019 | | | | | <0.003 | |
| 9/25/2019 | | | | <0.003 | | |
| 9/26/2019 | | | <0.003 | | | |
| 9/27/2019 | <0.003 | <0.003 | | | | <0.003 |
| 3/3/2020 | <0.003 | <0.003 | | | <0.003 | |
| 3/4/2020 | | | 0.00061 (J) | <0.003 | | 0.00032 (J) |
| 3/27/2020 | | | | <0.003 | <0.003 | |
| 3/30/2020 | | | 0.00036 (J) | | | |
| 3/31/2020 | | <0.003 | | | | 0.00042 (J) |
| 4/1/2020 | <0.003 | | | | | |
| 9/16/2020 | <0.003 | | | 0.00034 (J) | <0.003 | |
| 9/17/2020 | | | | | | <0.003 |
| 9/18/2020 | | 0.00038 (J) | | | | |
| 9/21/2020 | | | 0.00029 (J) | | | |
| 2/10/2021 | | | | <0.003 | | |
| 2/12/2021 | | <0.003 | | | | |
| 2/15/2021 | 0.00065 (J) | | | | | |
| 2/16/2021 | | | | | 0.00064 (J) | 0.00043 (J) |
| 2/22/2021 | | | 0.00047 (J) | | | |
| 3/12/2021 | <0.003 | | | | | |
| 3/15/2021 | | | | <0.003 | <0.003 | |
| 3/16/2021 | | <0.003 | | | | <0.003 |
| 3/17/2021 | | | 0.00049 (J) | | | |
| 8/16/2021 | | | | 0.0017 (J) | | |
| 8/17/2021 | <0.003 | | | | | <0.003 |
| 8/18/2021 | | <0.003 | | | <0.003 | |
| 8/19/2021 | | | <0.003 | | | |
| 2/9/2022 | <0.003 | <0.003 | | | | <0.003 |
| 2/10/2022 | | | <0.003 | <0.003 | <0.003 | |
| 8/3/2022 | 0.0018 (J) | <0.003 | <0.003 | <0.003 | <0.003 | |
| 8/4/2022 | | | | | | <0.003 |

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-----------|-----------|----------|-----------|-----------|-------------|
| 8/11/2022 | | | | <0.003 | | |
| 1/26/2023 | | <0.003 | <0.003 | | | 0.00092 (J) |
| 1/27/2023 | <0.003 | | | <0.003 | | |
| 2/1/2023 | | | | | <0.003 | |
| 8/10/2023 | <0.003 | <0.003 | | | | |
| 8/11/2023 | | | | | | <0.003 |
| 8/12/2023 | | | <0.003 | <0.003 | <0.003 | |
| Mean | 0.002839 | 0.002881 | 0.00217 | 0.002828 | 0.002893 | 0.00255 |
| Std. Dev. | 0.0005516 | 0.0005586 | 0.001246 | 0.0006062 | 0.0005032 | 0.0009833 |
| Upper Lim. | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Lower Lim. | 0.0018 | 0.00038 | 0.00049 | 0.0017 | 0.00064 | 0.00092 |

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-24D | MW-26D | MW-27D | MW-28D | MW-29 | MW-6 |
|------------|------------|------------|-------------|------------|-------------|------------|
| 3/12/2019 | | | | <0.003 | <0.003 | |
| 3/13/2019 | <0.003 | <0.003 | <0.003 | | | <0.003 |
| 4/2/2019 | | | | <0.003 | <0.003 | |
| 4/3/2019 | | <0.003 | | | | <0.003 |
| 4/4/2019 | | | 0.00016 (J) | | | |
| 4/8/2019 | <0.003 | | | | | |
| 9/24/2019 | | | | | <0.003 | |
| 9/26/2019 | <0.003 | <0.003 | 0.0003 (J) | <0.003 | | <0.003 |
| 3/2/2020 | | | | | <0.003 | |
| 3/3/2020 | | | | | | <0.003 |
| 3/4/2020 | 0.0017 (J) | 0.002 (J) | 0.00037 (J) | <0.003 | | |
| 3/27/2020 | | | | <0.003 | | <0.003 |
| 3/30/2020 | <0.003 | | | | <0.003 | |
| 3/31/2020 | | 0.0013 (J) | | | | |
| 4/2/2020 | | | 0.0003 (J) | | | |
| 9/16/2020 | | | | | <0.003 | |
| 9/17/2020 | | <0.003 | | | | |
| 9/18/2020 | | | 0.00031 (J) | | | |
| 9/21/2020 | <0.003 | | | <0.003 | | 0.0014 (J) |
| 2/10/2021 | | | | 0.0019 (J) | | |
| 2/15/2021 | | | | | 0.00094 (J) | |
| 2/16/2021 | <0.003 | <0.003 | 0.00038 (J) | | | <0.003 |
| 3/12/2021 | | | <0.003 | | | |
| 3/15/2021 | | | | <0.003 | <0.003 | |
| 3/16/2021 | | | | | | <0.003 |
| 3/17/2021 | <0.003 | <0.003 | | | | |
| 8/16/2021 | | | | | <0.003 | |
| 8/17/2021 | | <0.003 | <0.003 | | | <0.003 |
| 8/18/2021 | | | | <0.003 | | |
| 8/19/2021 | <0.003 | | | | | |
| 2/9/2022 | | <0.003 | | | | <0.003 |
| 2/10/2022 | <0.003 | | <0.003 | <0.003 | <0.003 | |
| 8/3/2022 | <0.003 | | <0.003 | | <0.003 | <0.003 |
| 8/4/2022 | | <0.003 | | <0.003 | | |
| 1/26/2023 | <0.003 | <0.003 | | <0.003 | <0.003 | <0.003 |
| 1/27/2023 | | | <0.003 | | | |
| 8/10/2023 | | | | | <0.003 | <0.003 |
| 8/11/2023 | | <0.003 | | <0.003 | | |
| 8/12/2023 | <0.003 | | <0.003 | | | |
| Mean | 0.0029 | 0.002792 | 0.001755 | 0.002915 | 0.002842 | 0.002877 |
| Std. Dev. | 0.0003606 | 0.0005267 | 0.0014 | 0.0003051 | 0.0005713 | 0.0004438 |
| Upper Lim. | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Lower Lim. | 0.0017 | 0.002 | 0.0003 | 0.0019 | 0.00094 | 0.0014 |

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-7 |
|------------|-------------|
| 3/13/2019 | 0.00086 (J) |
| 4/3/2019 | <0.003 |
| 9/26/2019 | <0.003 |
| 3/3/2020 | 0.0013 (J) |
| 3/30/2020 | <0.003 |
| 9/21/2020 | 0.00051 (J) |
| 2/15/2021 | 0.0021 (J) |
| 3/15/2021 | <0.003 |
| 8/17/2021 | <0.003 |
| 2/8/2022 | <0.003 |
| 8/4/2022 | <0.003 |
| 1/26/2023 | <0.003 |
| 8/10/2023 | <0.003 |
| Mean | 0.002444 |
| Std. Dev. | 0.0009336 |
| Upper Lim. | 0.003 |
| Lower Lim. | 0.00086 |

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-------------|------------|---------|------------|--------|-------------|
| 5/20/2016 | | | | <0.005 | <0.005 | |
| 5/23/2016 | <0.005 | 0.0046 (J) | 0.329 | | | <0.005 |
| 7/12/2016 | 0.0015 (J) | 0.005 | 0.297 | <0.005 | <0.005 | <0.005 |
| 9/1/2016 | <0.005 | 0.0043 (J) | 0.314 | <0.005 | <0.005 | <0.005 |
| 10/20/2016 | | | | <0.005 | <0.005 | <0.005 |
| 10/24/2016 | <0.005 | 0.0049 (J) | 0.334 | | | |
| 12/6/2016 | | | | <0.005 | <0.005 | <0.005 |
| 12/7/2016 | <0.005 | 0.0046 (J) | 0.35 | | | |
| 1/25/2017 | | | | <0.005 | <0.005 | |
| 1/26/2017 | <0.005 | <0.005 | 0.424 | | | <0.005 |
| 3/21/2017 | | | | <0.005 | <0.005 | |
| 3/22/2017 | 0.0053 | 0.0019 (J) | 0.419 | | | 0.0008 (J) |
| 5/23/2017 | | | | <0.005 | <0.005 | <0.005 |
| 5/24/2017 | <0.005 | 0.0022 (J) | 0.393 | | | |
| 4/3/2018 | | | | <0.005 | <0.005 | <0.005 |
| 4/4/2018 | <0.005 | <0.005 | 0.49 | | | |
| 6/5/2018 | 0.0012 (J) | | 0.38 | <0.005 | | |
| 6/6/2018 | | 0.0048 (J) | | | <0.005 | <0.005 |
| 10/2/2018 | | | | 0.0019 (J) | <0.005 | <0.005 |
| 10/3/2018 | <0.005 | 0.0037 (J) | | | | |
| 10/5/2018 | | | 0.34 | | | |
| 3/12/2019 | | | | | <0.005 | |
| 3/13/2019 | 0.0024 (J) | | 0.42 | <0.005 | | 0.00075 (J) |
| 3/14/2019 | | 0.0026 (J) | | | | |
| 4/2/2019 | | | | <0.005 | | |
| 4/3/2019 | 0.00094 (J) | 0.0022 (J) | | | <0.005 | <0.005 |
| 4/5/2019 | | | 0.36 | | | |
| 9/24/2019 | | | | | <0.005 | |
| 9/25/2019 | | | | <0.005 | | |
| 9/26/2019 | | | 0.44 | | | |
| 9/27/2019 | 0.0018 (J) | 0.0061 | | | | 0.00037 (J) |
| 3/3/2020 | 0.0022 (J) | 0.0023 (J) | | | <0.005 | |
| 3/4/2020 | | | 0.52 | <0.005 | | <0.005 |
| 3/26/2020 | | 0.0028 (J) | | | | |
| 3/27/2020 | | | | <0.005 | <0.005 | |
| 3/30/2020 | | | 0.47 | | | |
| 3/31/2020 | 0.0022 (J) | | | | | <0.005 |
| 9/16/2020 | | | | <0.005 | <0.005 | |
| 9/17/2020 | | | | | | <0.005 |
| 9/18/2020 | 0.00081 (J) | 0.0031 (J) | | | | |
| 9/21/2020 | | | 0.39 | | | |
| 2/10/2021 | | | | <0.005 | | |
| 2/12/2021 | 0.002 (J) | 0.0045 (J) | | | | |
| 2/16/2021 | | | | | <0.005 | <0.005 |
| 2/22/2021 | | | 0.45 | | | |
| 3/15/2021 | | | | <0.005 | <0.005 | |
| 3/16/2021 | 0.0017 (J) | 0.0038 (J) | | | | <0.005 |
| 3/17/2021 | | | 0.39 | | | |
| 8/16/2021 | | | | <0.005 | | |
| 8/17/2021 | | | | | | <0.005 |
| 8/18/2021 | <0.005 | 0.0028 (J) | | | <0.005 | |
| 8/19/2021 | | | 0.31 | | | |

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|------------|------------|---------|----------|-----------|------------|
| 2/9/2022 | 0.0047 (J) | 0.0053 | | | | 0.0021 (J) |
| 2/10/2022 | | | 0.38 | <0.005 | 0.002 (J) | |
| 8/3/2022 | <0.005 | 0.0023 (J) | 0.4 | <0.005 | <0.005 | |
| 8/4/2022 | | | | | | <0.005 |
| 8/11/2022 | | | | <0.005 | | |
| 1/26/2023 | <0.005 | 0.0025 (J) | 0.53 | | | <0.005 |
| 1/27/2023 | | | | <0.005 | | |
| 2/1/2023 | | | | | <0.005 | |
| 8/10/2023 | <0.005 | <0.005 | | | | |
| 8/11/2023 | | | | | | <0.005 |
| 8/12/2023 | | | 0.54 | <0.005 | <0.005 | |
| Mean | 0.003615 | 0.003492 | 0.4029 | 0.004876 | 0.004875 | 0.004334 |
| Std. Dev. | 0.001712 | 0.001231 | 0.07021 | 0.00062 | 0.0006124 | 0.001545 |
| Upper Lim. | 0.005 | 0.00412 | 0.4387 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.0018 | 0.002863 | 0.3671 | 0.0019 | 0.002 | 0.0021 |

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-20 | MW-25D | MW-26D | MW-27D | MW-28D |
|------------|-------------|-------------|-------------|------------|-------------|------------|
| 3/12/2019 | | | | | | <0.005 |
| 3/13/2019 | | 0.0023 (J) | | <0.005 | <0.005 | |
| 3/14/2019 | <0.005 | | 0.0019 (J) | | | |
| 4/2/2019 | | <0.005 | | | | <0.005 |
| 4/3/2019 | <0.005 | | <0.005 | <0.005 | | |
| 4/4/2019 | | | | | 0.0002 (J) | |
| 9/25/2019 | | <0.005 | | | | |
| 9/26/2019 | | | | <0.005 | <0.005 | <0.005 |
| 9/27/2019 | <0.005 | | 0.0011 (J) | | | |
| 3/2/2020 | | 0.00038 (J) | | | | |
| 3/3/2020 | | | 0.001 (J) | | | |
| 3/4/2020 | 0.00045 (J) | | | 0.0006 (J) | 0.00069 (J) | <0.005 |
| 3/26/2020 | <0.005 | | 0.00075 (J) | | | |
| 3/27/2020 | | <0.005 | | | | <0.005 |
| 3/31/2020 | | | | <0.005 | | |
| 4/2/2020 | | | | | <0.005 | |
| 9/17/2020 | | <0.005 | | <0.005 | | |
| 9/18/2020 | | | <0.005 | | <0.005 | |
| 9/21/2020 | <0.005 | | | | | <0.005 |
| 2/10/2021 | | | | | | 0.0011 (J) |
| 2/11/2021 | | 0.00094 (J) | | | | |
| 2/12/2021 | <0.005 | | <0.005 | | | |
| 2/16/2021 | | | | 0.0008 (J) | 0.001 (J) | |
| 3/12/2021 | | | | | <0.005 | |
| 3/15/2021 | | <0.005 | | | | <0.005 |
| 3/16/2021 | | | <0.005 | | | |
| 3/17/2021 | <0.005 | | | <0.005 | | |
| 8/17/2021 | | <0.005 | | <0.005 | <0.005 | |
| 8/18/2021 | <0.005 | | | | | <0.005 |
| 8/19/2021 | | | <0.005 | | | |
| 2/9/2022 | <0.005 | | <0.005 | 0.0017 (J) | | |
| 2/10/2022 | | <0.005 | | | <0.005 | <0.005 |
| 8/3/2022 | | | | | <0.005 | |
| 8/4/2022 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 |
| 1/26/2023 | <0.005 | <0.005 | <0.005 | <0.005 | | <0.005 |
| 1/27/2023 | | | | | <0.005 | |
| 8/10/2023 | <0.005 | <0.005 | <0.005 | | | |
| 8/11/2023 | | | | <0.005 | | <0.005 |
| 8/12/2023 | | | | | <0.005 | |
| Mean | 0.00465 | 0.004125 | 0.003827 | 0.004085 | 0.003992 | 0.0047 |
| Std. Dev. | 0.001262 | 0.001712 | 0.001848 | 0.001756 | 0.001923 | 0.001082 |
| Upper Lim. | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.00045 | 0.00094 | 0.001 | 0.0008 | 0.00069 | 0.0011 |

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-29 | MW-5 | MW-6 |
|------------|-------------|------------|------------|
| 3/12/2019 | <0.005 | | |
| 3/13/2019 | | <0.005 | <0.005 |
| 4/2/2019 | <0.005 | | |
| 4/3/2019 | | <0.005 | <0.005 |
| 9/24/2019 | <0.005 | | |
| 9/25/2019 | | <0.005 | |
| 9/26/2019 | | | <0.005 |
| 3/2/2020 | <0.005 | <0.005 | |
| 3/3/2020 | | | <0.005 |
| 3/26/2020 | | <0.005 | |
| 3/27/2020 | | | <0.005 |
| 3/30/2020 | 0.00037 (J) | | |
| 9/16/2020 | <0.005 | | |
| 9/17/2020 | | <0.005 | |
| 9/21/2020 | | | <0.005 |
| 2/15/2021 | <0.005 | | |
| 2/16/2021 | | <0.005 | <0.005 |
| 3/15/2021 | <0.005 | | |
| 3/16/2021 | | <0.005 | <0.005 |
| 8/16/2021 | <0.005 | | |
| 8/17/2021 | | <0.005 | <0.005 |
| 2/9/2022 | | 0.0013 (J) | 0.0034 (J) |
| 2/10/2022 | <0.005 | | |
| 8/3/2022 | <0.005 | <0.005 | <0.005 |
| 1/26/2023 | <0.005 | <0.005 | <0.005 |
| 8/10/2023 | <0.005 | <0.005 | <0.005 |
| Mean | 0.004644 | 0.004715 | 0.004877 |
| Std. Dev. | 0.001284 | 0.001026 | 0.0004438 |
| Upper Lim. | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.00037 | 0.0013 | 0.0034 |

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|---------|---------|---------|---------|--------|--------|
| 5/20/2016 | | | | | 0.0687 | 0.0808 |
| 5/23/2016 | 0.0877 | 0.0466 | 0.133 | 0.0779 | | |
| 7/12/2016 | 0.0926 | 0.0616 | 0.135 | 0.0697 | 0.0731 | 0.083 |
| 9/1/2016 | 0.0994 | 0.0497 | 0.123 | 0.07 | 0.0747 | 0.0829 |
| 10/20/2016 | | | | | 0.072 | 0.0811 |
| 10/24/2016 | 0.101 | 0.0794 | 0.135 | 0.0882 | | |
| 12/6/2016 | | | | | 0.0752 | 0.0845 |
| 12/7/2016 | 0.107 | 0.1 | 0.13 | 0.0798 | | |
| 1/25/2017 | | | | | 0.0747 | 0.078 |
| 1/26/2017 | 0.0538 | 0.0696 | 0.127 | 0.0738 | | |
| 3/21/2017 | | | | | 0.0722 | 0.0791 |
| 3/22/2017 | 0.0962 | 0.0346 | 0.112 | 0.0755 | | |
| 5/23/2017 | | | | | 0.0794 | 0.0846 |
| 5/24/2017 | 0.0996 | 0.0437 | 0.106 | 0.0627 | | |
| 4/3/2018 | | | | | 0.075 | 0.065 |
| 4/4/2018 | 0.084 | 0.029 | 0.083 | 0.099 | | |
| 6/5/2018 | 0.086 | 0.039 | | 0.13 | 0.071 | |
| 6/6/2018 | | | 0.09 | | | 0.063 |
| 10/2/2018 | 0.076 | | | | 0.078 | 0.061 |
| 10/3/2018 | | 0.033 | 0.087 | | | |
| 10/5/2018 | | | | 0.076 | | |
| 3/12/2019 | | | | | | 0.062 |
| 3/13/2019 | 0.044 | 0.024 | | 0.1 | 0.083 | |
| 3/14/2019 | | | 0.081 | | | |
| 4/2/2019 | | | | | 0.072 | |
| 4/3/2019 | 0.076 | 0.023 | 0.077 | | | 0.066 |
| 4/5/2019 | | | | 0.079 | | |
| 9/24/2019 | | | | | | 0.053 |
| 9/25/2019 | | | | | 0.061 | |
| 9/26/2019 | | | | 0.11 | | |
| 9/27/2019 | 0.078 | 0.033 | 0.096 | | | |
| 3/3/2020 | 0.048 | 0.022 | 0.092 | | | 0.052 |
| 3/4/2020 | | | | 0.1 | 0.068 | |
| 3/26/2020 | | | 0.089 | | | |
| 3/27/2020 | | | | | 0.059 | 0.059 |
| 3/30/2020 | | | | 0.08 | | |
| 3/31/2020 | | 0.026 | | | | |
| 4/1/2020 | 0.058 | | | | | |
| 9/16/2020 | 0.068 | | | | 0.068 | 0.06 |
| 9/18/2020 | | 0.043 | 0.086 | | | |
| 9/21/2020 | | | | 0.052 | | |
| 2/10/2021 | | | | | 0.069 | |
| 2/12/2021 | | 0.039 | 0.09 | | | |
| 2/15/2021 | 0.06 | | | | | |
| 2/16/2021 | | | | | | 0.069 |
| 2/22/2021 | | | | 0.061 | | |
| 3/12/2021 | 0.058 | | | | | |
| 3/15/2021 | | | | | 0.074 | 0.063 |
| 3/16/2021 | | 0.035 | 0.084 | | | |
| 3/17/2021 | | | | 0.056 | | |
| 8/16/2021 | | | | | 0.068 | |
| 8/17/2021 | 0.055 | | | | | |

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|---------|---------|---------|---------|----------|---------|
| 8/18/2021 | | 0.04 | 0.083 | | | 0.062 |
| 8/19/2021 | | | | 0.049 | | |
| 2/9/2022 | 0.042 | 0.042 | 0.075 | | | |
| 2/10/2022 | | | | 0.053 | 0.063 | 0.056 |
| 8/3/2022 | 0.069 | 0.041 | 0.086 | 0.07 | 0.066 | 0.06 |
| 8/11/2022 | | | | | 0.071 | |
| 1/26/2023 | | 0.031 | 0.076 | 0.079 | | |
| 1/27/2023 | 0.041 | | | | 0.065 | |
| 2/1/2023 | | | | | | 0.058 |
| 8/10/2023 | 0.045 | 0.027 | 0.075 | | | |
| 8/12/2023 | | | | 0.057 | 0.06 | 0.052 |
| Mean | 0.07189 | 0.04218 | 0.09796 | 0.07703 | 0.07044 | 0.06729 |
| Std. Dev. | 0.02124 | 0.01881 | 0.02115 | 0.01983 | 0.005986 | 0.01126 |
| Upper Lim. | 0.08272 | 0.04951 | 0.123 | 0.08714 | 0.07342 | 0.07264 |
| Lower Lim. | 0.06105 | 0.03242 | 0.083 | 0.06691 | 0.06746 | 0.06129 |

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D |
|------------|---------|---------|----------|---------|--------|---------|
| 5/23/2016 | 0.117 | | | | | |
| 7/12/2016 | 0.13 | | | | | |
| 9/1/2016 | 0.13 | | | | | |
| 10/20/2016 | 0.0806 | | | | | |
| 12/6/2016 | 0.128 | | | | | |
| 1/26/2017 | 0.142 | | | | | |
| 3/22/2017 | 0.122 | | | | | |
| 5/23/2017 | 0.127 | | | | | |
| 4/3/2018 | 0.1 | | | | | |
| 6/6/2018 | 0.11 | | | | | |
| 10/2/2018 | 0.11 | | | | | |
| 3/13/2019 | 0.1 | | 0.087 | 0.053 | | 0.099 |
| 3/14/2019 | | 0.06 | | | 0.44 | |
| 4/2/2019 | | | 0.08 | | | |
| 4/3/2019 | 0.12 | 0.05 | | | 0.38 | 0.12 |
| 4/8/2019 | | | | 0.043 | | |
| 9/25/2019 | | | 0.085 | | | |
| 9/26/2019 | | | | 0.12 | | 0.12 |
| 9/27/2019 | 0.11 | 0.068 | | | 0.39 | |
| 3/2/2020 | | | 0.099 | | | |
| 3/3/2020 | | | | | 0.42 | |
| 3/4/2020 | 0.11 | 0.069 | | 0.081 | | 0.17 |
| 3/26/2020 | | 0.067 | | | 0.45 | |
| 3/27/2020 | | | 0.093 | | | |
| 3/30/2020 | | | | 0.056 | | |
| 3/31/2020 | 0.11 | | | | | 0.11 |
| 9/17/2020 | 0.11 | | 0.096 | | | 0.099 |
| 9/18/2020 | | | | | 0.44 | |
| 9/21/2020 | | 0.056 | | 0.053 | | |
| 2/11/2021 | | | 0.093 | | | |
| 2/12/2021 | | 0.051 | | | 0.46 | |
| 2/16/2021 | 0.11 | | | 0.062 | | 0.093 |
| 3/15/2021 | | | 0.096 | | | |
| 3/16/2021 | 0.11 | | | | 0.51 | |
| 3/17/2021 | | 0.049 | | 0.055 | | 0.094 |
| 8/17/2021 | 0.095 | | 0.089 | | | 0.072 |
| 8/18/2021 | | 0.045 | | | | |
| 8/19/2021 | | | | 0.048 | 0.58 | |
| 2/9/2022 | 0.096 | 0.042 | | | 0.6 | 0.066 |
| 2/10/2022 | | | 0.082 | 0.048 | | |
| 8/3/2022 | | | | 0.053 | | |
| 8/4/2022 | 0.091 | 0.05 | 0.093 | | 0.75 | 0.062 |
| 1/26/2023 | 0.069 | 0.039 | 0.097 | 0.054 | 0.65 | 0.065 |
| 8/10/2023 | | 0.032 | 0.093 | | 0.71 | |
| 8/11/2023 | 0.068 | | | | | 0.059 |
| 8/12/2023 | | | | 0.053 | | |
| Mean | 0.1082 | 0.05215 | 0.091 | 0.05992 | 0.5215 | 0.09454 |
| Std. Dev. | 0.01858 | 0.0115 | 0.005944 | 0.0202 | 0.1238 | 0.03134 |
| Upper Lim. | 0.1176 | 0.0607 | 0.09542 | 0.081 | 0.6136 | 0.1178 |
| Lower Lim. | 0.09867 | 0.04361 | 0.08658 | 0.048 | 0.4295 | 0.07123 |

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-27D | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|------------|--------|--------|----------|----------|---------|----------|
| 3/12/2019 | | 0.82 | 0.089 | | | |
| 3/13/2019 | 1.5 | | | 0.056 | 0.1 | 0.063 |
| 4/2/2019 | | 0.37 | 0.078 | | | |
| 4/3/2019 | | | | 0.049 | 0.09 | 0.058 |
| 4/4/2019 | 1.2 | | | | | |
| 9/24/2019 | | | 0.081 | | | |
| 9/25/2019 | | | | 0.046 | | |
| 9/26/2019 | 0.95 | 0.15 | | | 0.089 | 0.066 |
| 3/2/2020 | | | 0.088 | 0.049 | | |
| 3/3/2020 | | | | | 0.09 | 0.043 |
| 3/4/2020 | 0.95 | 0.77 | | | | |
| 3/26/2020 | | | | 0.046 | | |
| 3/27/2020 | | 0.64 | | | 0.086 | |
| 3/30/2020 | | | 0.08 | | | 0.05 |
| 4/2/2020 | 1 | | | | | |
| 9/16/2020 | | | 0.076 | | | |
| 9/17/2020 | | | | 0.043 | | |
| 9/18/2020 | 1 | | | | | |
| 9/21/2020 | | 0.18 | | | 0.083 | 0.065 |
| 2/10/2021 | | 0.26 | | | | |
| 2/15/2021 | | | 0.081 | | | 0.048 |
| 2/16/2021 | 1 | | | 0.05 | 0.085 | |
| 3/12/2021 | 1.1 | | | | | |
| 3/15/2021 | | 0.45 | 0.078 | | | 0.053 |
| 3/16/2021 | | | | 0.046 | 0.081 | |
| 8/16/2021 | | | 0.074 | | | |
| 8/17/2021 | 1.1 | | | 0.045 | 0.081 | 0.057 |
| 8/18/2021 | | 0.53 | | | | |
| 2/8/2022 | | | | | | 0.053 |
| 2/9/2022 | | | | 0.042 | 0.074 | |
| 2/10/2022 | 0.99 | 0.76 | 0.072 | | | |
| 8/3/2022 | 0.94 | | 0.081 | 0.058 | 0.084 | |
| 8/4/2022 | | 0.7 | | | | 0.064 |
| 1/26/2023 | | 0.8 | 0.076 | 0.05 | 0.079 | 0.044 |
| 1/27/2023 | 0.94 | | | | | |
| 8/10/2023 | | | 0.066 | 0.048 | 0.066 | 0.059 |
| 8/11/2023 | | 2.2 | | | | |
| 8/12/2023 | 0.98 | | | | | |
| Mean | 1.05 | 0.6638 | 0.07846 | 0.04831 | 0.08369 | 0.05562 |
| Std. Dev. | 0.1555 | 0.5193 | 0.006146 | 0.004608 | 0.00829 | 0.007837 |
| Upper Lim. | 1.2 | 0.9551 | 0.08303 | 0.05173 | 0.08986 | 0.06144 |
| Lower Lim. | 0.94 | 0.3145 | 0.07389 | 0.04488 | 0.07753 | 0.04979 |

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-13 | HGWC-7 | HGWC-8 | MW-19 | MW-28D |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 5/20/2016 | | | <0.0005 | <0.0005 | | |
| 5/23/2016 | <0.0005 | <0.0005 | | | | |
| 7/12/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | |
| 9/1/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | |
| 10/20/2016 | | | <0.0005 | <0.0005 | | |
| 10/24/2016 | <0.0005 | <0.0005 | | | | |
| 12/6/2016 | | | <0.0005 | <0.0005 | | |
| 12/7/2016 | <0.0005 | <0.0005 | | | | |
| 1/25/2017 | | | <0.0005 | <0.0005 | | |
| 1/26/2017 | <0.0005 | <0.0005 | | | | |
| 3/21/2017 | | | <0.0005 | <0.0005 | | |
| 3/22/2017 | 9E-05 (J) | <0.0005 | | | | |
| 5/23/2017 | | | <0.0005 | <0.0005 | | |
| 5/24/2017 | <0.0005 | <0.0005 | | | | |
| 4/3/2018 | | | <0.0005 | <0.0005 | | |
| 4/4/2018 | <0.0005 | <0.0005 | | | | |
| 3/12/2019 | | | | <0.0005 | | <0.0005 |
| 3/13/2019 | 0.0001 (J) | 6.2E-05 (J) | <0.0005 | | | |
| 3/14/2019 | | | | | <0.0005 | |
| 4/2/2019 | | | <0.0005 | | | <0.0005 |
| 4/3/2019 | 0.00017 (J) | | | 7.4E-05 (J) | <0.0005 | |
| 4/5/2019 | | <0.0005 | | | | |
| 9/24/2019 | | | | <0.0005 | | |
| 9/25/2019 | | | <0.0005 | | | |
| 9/26/2019 | | 0.00011 (J) | | | | <0.0005 |
| 9/27/2019 | 8.6E-05 (J) | | | | <0.0005 | |
| 3/3/2020 | 0.00012 (J) | | | <0.0005 | | |
| 3/4/2020 | | 9.3E-05 (J) | 7.7E-05 (J) | | <0.0005 | 0.00014 (J) |
| 3/26/2020 | | | | | <0.0005 | |
| 3/27/2020 | | | <0.0005 | <0.0005 | | <0.0005 |
| 3/30/2020 | | 9.9E-05 (J) | | | | |
| 3/31/2020 | 0.00015 (J) | | | | | |
| 9/16/2020 | | | <0.0005 | 0.0001 (J) | | |
| 9/18/2020 | <0.0005 | | | | | |
| 9/21/2020 | | 0.00011 (J) | | | <0.0005 | <0.0005 |
| 2/10/2021 | | | 8.1E-05 (J) | | | 5.4E-05 (J) |
| 2/12/2021 | <0.0005 | | | | <0.0005 | |
| 2/16/2021 | | | | 7.1E-05 (J) | | |
| 2/22/2021 | | 9.7E-05 (J) | | | | |
| 3/15/2021 | | | 0.00019 (J) | 7.8E-05 (J) | | 4.8E-05 (J) |
| 3/16/2021 | 8.1E-05 (J) | | | | | |
| 3/17/2021 | | 9E-05 (J) | | | <0.0005 | |
| 8/16/2021 | | | <0.0005 | | | |
| 8/18/2021 | <0.0005 | | | 8.7E-05 (J) | 5.8E-05 (J) | <0.0005 |
| 8/19/2021 | | 7.3E-05 (J) | | | | |
| 2/9/2022 | <0.0005 | | | | <0.0005 | |
| 2/10/2022 | | <0.0005 | <0.0005 | 7.1E-05 (J) | | <0.0005 |
| 8/3/2022 | <0.0005 | <0.0005 | <0.0005 | 5.6E-05 (J) | | |
| 8/4/2022 | | | | | <0.0005 | <0.0005 |
| 8/11/2022 | | | <0.0005 | | | |
| 1/26/2023 | <0.0005 | 9.9E-05 (J) | | | <0.0005 | <0.0005 |
| 1/27/2023 | | | <0.0005 | | | |

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-13 | HGWC-7 | HGWC-8 | MW-19 | MW-28D |
|------------|-------------|------------|-----------|-------------|-----------|-----------|
| 2/1/2023 | | | | 5.6E-05 (J) | | |
| 8/10/2023 | 6.9E-05 (J) | | | | <0.0005 | |
| 8/11/2023 | | | | | | <0.0005 |
| 8/12/2023 | | 0.0001 (J) | <0.0005 | <0.0005 | | |
| Mean | 0.0003575 | 0.0003151 | 0.0004499 | 0.0003451 | 0.000466 | 0.0004032 |
| Std. Dev. | 0.000194 | 0.0002075 | 0.0001336 | 0.0002099 | 0.0001226 | 0.0001851 |
| Upper Lim. | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0005 |
| Lower Lim. | 0.00012 | 9.7E-05 | 0.00019 | 7.8E-05 | 5.8E-05 | 5.4E-05 |

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-7 |
|------------|-------------|
| 3/13/2019 | <0.0005 |
| 4/3/2019 | 5.1E-05 (J) |
| 9/26/2019 | <0.0005 |
| 3/3/2020 | <0.0005 |
| 3/30/2020 | <0.0005 |
| 9/21/2020 | <0.0005 |
| 2/15/2021 | <0.0005 |
| 3/15/2021 | <0.0005 |
| 8/17/2021 | <0.0005 |
| 2/8/2022 | <0.0005 |
| 8/4/2022 | <0.0005 |
| 1/26/2023 | <0.0005 |
| 8/10/2023 | <0.0005 |
| Mean | 0.0004655 |
| Std. Dev. | 0.0001245 |
| Upper Lim. | 0.0005 |
| Lower Lim. | 5.1E-05 |

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|--------------|-------------|-------------|-------------|-------------|------------|
| 5/20/2016 | | | | <0.0005 | 0.00024 (J) | |
| 5/23/2016 | 0.000115 (J) | <0.0005 | <0.0005 | | | <0.0005 |
| 7/12/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.0002 (J) | <0.0005 |
| 9/1/2016 | 0.0001 (J) | <0.0005 | <0.0005 | <0.0005 | 0.0001 (J) | <0.0005 |
| 10/20/2016 | | | | <0.0005 | 0.0001 (J) | 0.0002 (J) |
| 10/24/2016 | 0.0001 (J) | <0.0005 | <0.0005 | | | |
| 12/6/2016 | | | | 0.0002 (J) | 0.0017 | 0.0001 (J) |
| 12/7/2016 | 0.0001 (J) | 0.0001 (J) | 0.0002 (J) | | | |
| 1/25/2017 | | | | 0.0002 (J) | 0.0002 (J) | |
| 1/26/2017 | <0.0005 | <0.0005 | <0.0005 | | | <0.0005 |
| 3/21/2017 | | | | 0.0002 (J) | 0.0002 (J) | |
| 3/22/2017 | 0.0001 (J) | 0.0001 (J) | 0.0003 (J) | | | 7E-05 (J) |
| 5/23/2017 | | | | 0.0001 (J) | 0.0003 (J) | <0.0005 |
| 5/24/2017 | 0.0002 (J) | <0.0005 | 9E-05 (J) | | | |
| 4/3/2018 | | | | <0.0005 | <0.001 | <0.0005 |
| 4/4/2018 | <0.0005 | <0.0005 | <0.0005 | | | |
| 3/12/2019 | | | | | 0.0002 (J) | |
| 3/13/2019 | <0.0005 | <0.0005 | | <0.0005 | | <0.0005 |
| 3/14/2019 | | | <0.0005 | | | |
| 4/2/2019 | | | | <0.0005 | | |
| 4/3/2019 | 0.0001 (J) | 9.6E-05 (J) | <0.0005 | | 0.00032 (J) | <0.0005 |
| 9/24/2019 | | | | | 0.0002 (J) | |
| 9/25/2019 | | | | <0.0005 | | |
| 9/27/2019 | <0.0005 | <0.0005 | <0.0005 | | | <0.0005 |
| 3/3/2020 | <0.0005 | <0.0005 | 0.00015 (J) | | 0.00017 (J) | |
| 3/4/2020 | | | | <0.0005 | | <0.0005 |
| 3/26/2020 | | | <0.0005 | | | |
| 3/27/2020 | | | | <0.0005 | 0.00014 (J) | |
| 3/31/2020 | | <0.0005 | | | | <0.0005 |
| 4/1/2020 | <0.0005 | | | | | |
| 9/16/2020 | <0.0005 | | | <0.0005 | 0.00023 (J) | |
| 9/17/2020 | | | | | | <0.0005 |
| 9/18/2020 | | <0.0005 | <0.0005 | | | |
| 2/10/2021 | | | | <0.0005 | | |
| 2/12/2021 | | <0.0005 | <0.0005 | | | |
| 2/15/2021 | <0.0005 | | | | | |
| 2/16/2021 | | | | | 0.00037 (J) | <0.0005 |
| 3/12/2021 | <0.0005 | | | | | |
| 3/15/2021 | | | | <0.0005 | 0.00017 (J) | |
| 3/16/2021 | | <0.0005 | <0.0005 | | | <0.0005 |
| 8/16/2021 | | | | <0.0005 | | |
| 8/17/2021 | <0.0005 | | | | | <0.0005 |
| 8/18/2021 | | <0.0005 | <0.0005 | | 0.0002 (J) | |
| 2/9/2022 | <0.0005 | <0.0005 | <0.0005 | | | <0.0005 |
| 2/10/2022 | | | | <0.0005 | 0.00029 (J) | |
| 8/3/2022 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 0.00017 (J) | |
| 8/4/2022 | | | | | | <0.0005 |
| 8/11/2022 | | | | <0.0005 | | |
| 1/26/2023 | | <0.0005 | <0.0005 | | | <0.0005 |
| 1/27/2023 | <0.0005 | | | 0.00019 (J) | | |
| 2/1/2023 | | | | | 0.00014 (J) | |
| 8/10/2023 | <0.0005 | <0.0005 | <0.0005 | | | |

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-7 | HGWC-8 | HGWC-9 |
|------------|-----------|-----------|-----------|-----------|-------------|-----------|
| 8/11/2023 | | | | | | |
| 8/12/2023 | | | | <0.0005 | 0.00044 (J) | <0.0005 |
| Mean | 0.000378 | 0.0004453 | 0.0004427 | 0.00043 | 0.0002991 | 0.0004486 |
| Std. Dev. | 0.0001839 | 0.000141 | 0.0001288 | 0.0001371 | 0.0003292 | 0.000134 |
| Upper Lim. | 0.0005 | 0.0005 | 0.0005 | 0.0005 | 0.0003 | 0.0005 |
| Lower Lim. | 0.000115 | 0.0001 | 0.0003 | 0.0002 | 0.00017 | 0.0002 |

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 |
|------------|-------------|
| 3/14/2019 | <0.0005 |
| 4/3/2019 | <0.0005 |
| 9/27/2019 | 0.00013 (J) |
| 3/4/2020 | 0.00026 (J) |
| 3/26/2020 | 0.00019 (J) |
| 9/21/2020 | 0.00018 (J) |
| 2/12/2021 | 0.0002 (J) |
| 3/17/2021 | 0.00016 (J) |
| 8/18/2021 | 0.00027 (J) |
| 2/9/2022 | 0.0011 |
| 8/4/2022 | 0.00022 (J) |
| 1/26/2023 | <0.0005 |
| 8/10/2023 | 0.00018 (J) |
| Mean | 0.0003377 |
| Std. Dev. | 0.0002661 |
| Upper Lim. | 0.0003198 |
| Lower Lim. | 0.0001473 |

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|------------|-------------|-------------|-------------|-------------|-------------|
| 5/20/2016 | | | | | <0.005 | <0.005 |
| 5/23/2016 | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 7/12/2016 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 9/1/2016 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 10/20/2016 | | | | | <0.005 | <0.005 |
| 10/24/2016 | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 12/6/2016 | | | | | <0.005 | <0.005 |
| 12/7/2016 | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 1/25/2017 | | | | | <0.005 | <0.005 |
| 1/26/2017 | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 3/21/2017 | | | | | <0.005 | 0.0005 (J) |
| 3/22/2017 | <0.005 | 0.0003 (J) | 0.0004 (J) | 0.0004 (J) | | |
| 5/23/2017 | | | | | <0.005 | <0.005 |
| 5/24/2017 | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 4/3/2018 | | | | | <0.005 | <0.005 |
| 4/4/2018 | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 3/12/2019 | | | | | | <0.005 |
| 3/13/2019 | <0.005 | <0.005 | | <0.005 | <0.005 | |
| 3/14/2019 | | | 0.0025 (J) | | | |
| 4/2/2019 | | | | | <0.005 | |
| 4/3/2019 | 0.02 | <0.005 | <0.005 | | | <0.005 |
| 4/5/2019 | | | | <0.005 | | |
| 9/24/2019 | | | | | | <0.005 |
| 9/25/2019 | | | | | 0.071 | |
| 9/26/2019 | | | | <0.005 | | |
| 9/27/2019 | <0.005 | <0.005 | <0.005 | | | |
| 3/3/2020 | <0.005 | 0.00061 (J) | <0.005 | | | 0.0007 (J) |
| 3/4/2020 | | | | <0.005 | 0.0016 (J) | |
| 3/26/2020 | | | <0.005 | | | |
| 3/27/2020 | | | | | 0.0004 (J) | <0.005 |
| 3/30/2020 | | | | 0.00059 (J) | | |
| 3/31/2020 | | <0.005 | | | | |
| 4/1/2020 | <0.005 | | | | | |
| 9/16/2020 | <0.005 | | | | 0.00074 (J) | 0.0015 (J) |
| 9/18/2020 | | <0.005 | 0.00091 (J) | | | |
| 9/21/2020 | | | | 0.00056 (J) | | |
| 2/10/2021 | | | | | 0.0014 (J) | |
| 2/12/2021 | | <0.005 | <0.005 | | | |
| 2/15/2021 | <0.005 | | | | | |
| 2/16/2021 | | | | | | <0.005 |
| 2/22/2021 | | | | <0.005 | | |
| 3/12/2021 | <0.005 | | | | | |
| 3/15/2021 | | | | | 0.0021 (J) | 0.00082 (J) |
| 3/16/2021 | | <0.005 | <0.005 | | | |
| 3/17/2021 | | | | <0.005 | | |
| 8/16/2021 | | | | | <0.005 | |
| 8/17/2021 | <0.005 | | | | | |
| 8/18/2021 | | <0.005 | <0.005 | | | <0.005 |
| 8/19/2021 | | | | <0.005 | | |
| 2/9/2022 | 0.0011 (J) | <0.005 | <0.005 | | | |
| 2/10/2022 | | | | <0.005 | <0.005 | <0.005 |
| 8/3/2022 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|------------|------------|----------|----------|------------|----------|
| 8/11/2022 | | | | | <0.005 | |
| 1/26/2023 | | 0.0012 (J) | <0.005 | <0.005 | | |
| 1/27/2023 | 0.0012 (J) | | | | 0.0014 (J) | |
| 2/1/2023 | | | | | | <0.005 |
| 8/10/2023 | <0.005 | <0.005 | <0.005 | | | |
| 8/12/2023 | | | | <0.005 | <0.005 | <0.005 |
| Mean | 0.005332 | 0.004414 | 0.004491 | 0.004389 | 0.006897 | 0.004251 |
| Std. Dev. | 0.003466 | 0.001516 | 0.001353 | 0.001575 | 0.01408 | 0.001635 |
| Upper Lim. | 0.02 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.0012 | 0.0012 | 0.0025 | 0.00059 | 0.0021 | 0.0015 |

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 5/23/2016 | <0.005 | | | | | |
| 7/12/2016 | <0.005 | | | | | |
| 9/1/2016 | <0.005 | | | | | |
| 10/20/2016 | <0.005 | | | | | |
| 12/6/2016 | <0.005 | | | | | |
| 1/26/2017 | <0.005 | | | | | |
| 3/22/2017 | <0.005 | | | | | |
| 5/23/2017 | <0.005 | | | | | |
| 4/3/2018 | <0.005 | | | | | |
| 3/13/2019 | <0.005 | | <0.005 | <0.005 | | <0.005 |
| 3/14/2019 | | <0.005 | | | <0.005 | |
| 4/2/2019 | | | <0.005 | | | |
| 4/3/2019 | <0.005 | <0.005 | | | <0.005 | <0.005 |
| 4/8/2019 | | | | <0.005 | | |
| 9/25/2019 | | | <0.005 | | | |
| 9/26/2019 | | | | 0.00042 (J) | | 0.00076 (J) |
| 9/27/2019 | <0.005 | <0.005 | | | <0.005 | |
| 3/2/2020 | | | 0.00071 (J) | | | |
| 3/3/2020 | | | | | <0.005 | |
| 3/4/2020 | <0.005 | 0.00066 (J) | | <0.005 | | 0.0028 (J) |
| 3/26/2020 | | 0.00047 (J) | | | 0.00061 (J) | |
| 3/27/2020 | | | 0.00051 (J) | | | |
| 3/30/2020 | | | | <0.005 | | |
| 3/31/2020 | 0.00052 (J) | | | | | 0.001 (J) |
| 9/17/2020 | <0.005 | | <0.005 | | | <0.005 |
| 9/18/2020 | | | | | <0.005 | |
| 9/21/2020 | | 0.0014 (J) | | <0.005 | | |
| 2/11/2021 | | | <0.005 | | | |
| 2/12/2021 | | 0.00059 (J) | | | <0.005 | |
| 2/16/2021 | 0.00067 (J) | | | <0.005 | | 0.001 (J) |
| 3/15/2021 | | | 0.00068 (J) | | | |
| 3/16/2021 | <0.005 | | | | <0.005 | |
| 3/17/2021 | | 0.0022 (J) | | 0.0017 (J) | | 0.0015 (J) |
| 8/17/2021 | <0.005 | | <0.005 | | | <0.005 |
| 8/18/2021 | | <0.005 | | | | |
| 8/19/2021 | | | | <0.005 | <0.005 | |
| 2/9/2022 | 0.0011 (J) | <0.005 | | | <0.005 | <0.005 |
| 2/10/2022 | | | <0.005 | <0.005 | | |
| 8/3/2022 | | | | <0.005 | | |
| 8/4/2022 | <0.005 | <0.005 | <0.005 | | <0.005 | <0.005 |
| 1/26/2023 | 0.0013 (J) | 0.0011 (J) | <0.005 | <0.005 | 0.0012 (J) | <0.005 |
| 8/10/2023 | | <0.005 | <0.005 | | <0.005 | |
| 8/11/2023 | <0.005 | | | | | <0.005 |
| 8/12/2023 | | | | <0.005 | | |
| Mean | 0.004254 | 0.003186 | 0.003992 | 0.004394 | 0.00437 | 0.00362 |
| Std. Dev. | 0.001625 | 0.002083 | 0.001915 | 0.001502 | 0.001543 | 0.001878 |
| Upper Lim. | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.0013 | 0.00059 | 0.00068 | 0.0017 | 0.0012 | 0.001 |

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-27D | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|------------|-------------|-------------|-----------|------------|-------------|------------|
| 3/12/2019 | | <0.005 | <0.005 | | | |
| 3/13/2019 | <0.005 | | | 0.003 (J) | <0.005 | <0.005 |
| 4/2/2019 | | <0.005 | <0.005 | | | |
| 4/3/2019 | | | | 0.003 (J) | <0.005 | 0.0023 (J) |
| 4/4/2019 | <0.005 | | | | | |
| 9/24/2019 | | | <0.005 | | | |
| 9/25/2019 | | | | 0.0052 (J) | | |
| 9/26/2019 | <0.005 | 0.00081 (J) | | | <0.005 | 0.0013 (J) |
| 3/2/2020 | | | <0.005 | 0.0042 (J) | | |
| 3/3/2020 | | | | | 0.00044 (J) | 0.0015 (J) |
| 3/4/2020 | <0.005 | 0.0027 (J) | | | | |
| 3/26/2020 | | | | 0.0044 (J) | | |
| 3/27/2020 | | <0.005 | | | 0.00059 (J) | |
| 3/30/2020 | | | 0.001 (J) | | | 0.0021 (J) |
| 4/2/2020 | <0.005 | | | | | |
| 9/16/2020 | | | <0.005 | | | |
| 9/17/2020 | | | | 0.0021 (J) | | |
| 9/18/2020 | 0.0007 (J) | | | | | |
| 9/21/2020 | | 0.00085 (J) | | | <0.005 | 0.0017 (J) |
| 2/10/2021 | | 0.0014 (J) | | | | |
| 2/15/2021 | | | <0.005 | | | 0.0015 (J) |
| 2/16/2021 | 0.00082 (J) | | | 0.0032 (J) | <0.005 | |
| 3/12/2021 | <0.005 | | | | | |
| 3/15/2021 | | 0.00078 (J) | <0.005 | | | 0.0018 (J) |
| 3/16/2021 | | | | 0.0024 (J) | <0.005 | |
| 8/16/2021 | | | <0.005 | | | |
| 8/17/2021 | <0.005 | | | 0.0018 (J) | <0.005 | <0.005 |
| 8/18/2021 | | <0.005 | | | | |
| 2/8/2022 | | | | | | 0.0016 (J) |
| 2/9/2022 | | | | 0.0031 (J) | <0.005 | |
| 2/10/2022 | <0.005 | 0.0011 (J) | <0.005 | | | |
| 8/3/2022 | <0.005 | | <0.005 | 0.0015 (J) | <0.005 | |
| 8/4/2022 | | <0.005 | | | | 0.002 (J) |
| 1/26/2023 | | <0.005 | <0.005 | 0.0032 (J) | 0.0014 (J) | 0.0017 (J) |
| 1/27/2023 | <0.005 | | | | | |
| 8/10/2023 | | | <0.005 | 0.002 (J) | <0.005 | 0.0015 (J) |
| 8/11/2023 | | <0.005 | | | | |
| 8/12/2023 | <0.005 | | | | | |
| Mean | 0.004348 | 0.00328 | 0.004692 | 0.003008 | 0.004033 | 0.002231 |
| Std. Dev. | 0.001592 | 0.001991 | 0.001109 | 0.001087 | 0.001849 | 0.001259 |
| Upper Lim. | 0.005 | 0.005 | 0.005 | 0.003816 | 0.005 | 0.0023 |
| Lower Lim. | 0.00082 | 0.00081 | 0.001 | 0.002199 | 0.00059 | 0.0015 |

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|------------|-------------|------------|-------------|-------------|-------------|
| 5/20/2016 | | | | | <0.01 | 0.00207 (J) |
| 5/23/2016 | <0.005 | <0.005 | <0.01 | 0.00361 (J) | | |
| 7/12/2016 | 0.0006 (J) | 0.0021 (J) | 0.0018 (J) | 0.0032 (J) | 0.0003 (J) | 0.0019 (J) |
| 9/1/2016 | 0.0007 (J) | 0.0025 (J) | 0.0016 (J) | 0.0033 (J) | <0.01 | 0.0023 (J) |
| 10/20/2016 | | | | | 0.0008 (J) | 0.002 (J) |
| 10/24/2016 | 0.0009 (J) | 0.0032 (J) | 0.0017 (J) | 0.004 (J) | | |
| 12/6/2016 | | | | | 0.0009 (J) | 0.0026 (J) |
| 12/7/2016 | 0.0012 (J) | 0.003 (J) | 0.0021 (J) | 0.0034 (J) | | |
| 1/25/2017 | | | | | 0.0005 (J) | 0.002 (J) |
| 1/26/2017 | <0.005 | 0.0014 (J) | 0.0016 (J) | 0.0024 (J) | | |
| 3/21/2017 | | | | | 0.0005 (J) | 0.0023 (J) |
| 3/22/2017 | 0.0006 (J) | 0.0014 (J) | 0.0018 (J) | 0.0026 (J) | | |
| 5/23/2017 | | | | | 0.0005 (J) | 0.0023 (J) |
| 5/24/2017 | 0.0006 (J) | 0.0008 (J) | 0.0015 (J) | 0.0022 (J) | | |
| 4/3/2018 | | | | | <0.01 | <0.025 |
| 4/4/2018 | <0.005 | <0.005 | <0.01 | <0.01 | | |
| 3/12/2019 | | | | | | 0.002 (J) |
| 3/13/2019 | <0.005 | 0.00098 (J) | | 0.0022 (J) | 0.00067 (J) | |
| 3/14/2019 | | | 0.0011 (J) | | | |
| 4/2/2019 | | | | | 0.00069 (J) | |
| 4/3/2019 | <0.005 | 0.0018 (J) | 0.0011 (J) | | | 0.0019 (J) |
| 4/5/2019 | | | | 0.0017 (J) | | |
| 9/24/2019 | | | | | | 0.0015 (J) |
| 9/25/2019 | | | | | 0.0026 (J) | |
| 9/26/2019 | | | | 0.0042 (J) | | |
| 9/27/2019 | <0.005 | 0.00071 (J) | 0.0012 (J) | | | |
| 3/3/2020 | <0.005 | 0.00087 (J) | 0.0013 (J) | | | 0.002 (J) |
| 3/4/2020 | | | | 0.0066 | 0.0011 (J) | |
| 3/26/2020 | | | 0.0012 (J) | | | |
| 3/27/2020 | | | | | 0.00074 (J) | 0.0018 (J) |
| 3/30/2020 | | | | 0.0053 | | |
| 3/31/2020 | | 0.0014 (J) | | | | |
| 4/1/2020 | <0.005 | | | | | |
| 9/16/2020 | <0.005 | | | | 0.00065 (J) | 0.0019 (J) |
| 9/18/2020 | | <0.005 | 0.0014 (J) | | | |
| 9/21/2020 | | | | 0.0032 (J) | | |
| 2/10/2021 | | | | | 0.00081 (J) | |
| 2/12/2021 | | <0.005 | 0.0012 (J) | | | |
| 2/15/2021 | <0.005 | | | | | |
| 2/16/2021 | | | | | | 0.002 (J) |
| 2/22/2021 | | | | 0.003 (J) | | |
| 3/12/2021 | <0.005 | | | | | |
| 3/15/2021 | | | | | 0.0014 (J) | 0.0019 (J) |
| 3/16/2021 | | <0.005 | 0.0012 (J) | | | |
| 3/17/2021 | | | | 0.0029 (J) | | |
| 8/16/2021 | | | | | 0.0012 (J) | |
| 8/17/2021 | <0.005 | | | | | |
| 8/18/2021 | | <0.005 | 0.0012 (J) | | | 0.002 (J) |
| 8/19/2021 | | | | 0.0024 (J) | | |
| 2/9/2022 | <0.005 | <0.005 | 0.0013 (J) | | | |
| 2/10/2022 | | | | 0.0026 (J) | 0.0011 (J) | 0.0021 (J) |
| 8/3/2022 | <0.005 | <0.005 | 0.0012 (J) | 0.0041 (J) | 0.0015 (J) | 0.0024 (J) |

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|----------|----------|------------|----------|-------------|------------|
| 8/11/2022 | | | | | 0.0018 (J) | |
| 1/26/2023 | | <0.005 | 0.0012 (J) | 0.012 | | |
| 1/27/2023 | <0.005 | | | | 0.00067 (J) | |
| 2/1/2023 | | | | | | <0.025 |
| 8/10/2023 | <0.005 | <0.005 | 0.0012 (J) | | | |
| 8/12/2023 | | | | 0.018 | 0.00061 (J) | 0.0016 (J) |
| Mean | 0.003845 | 0.003189 | 0.001723 | 0.00445 | 0.00148 | 0.00298 |
| Std. Dev. | 0.001933 | 0.001801 | 0.001094 | 0.003718 | 0.001483 | 0.003091 |
| Upper Lim. | 0.005 | 0.005 | 0.0017 | 0.0042 | 0.001586 | 0.0023 |
| Lower Lim. | 0.0012 | 0.0014 | 0.0012 | 0.0026 | 0.0007039 | 0.0019 |

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | MW-19 | MW-20 | MW-24D | MW-26D | MW-27D |
|------------|-------------|----------|------------|-------------|-------------|-------------|
| 5/23/2016 | <0.01 | | | | | |
| 7/12/2016 | 0.0006 (J) | | | | | |
| 9/1/2016 | 0.0007 (J) | | | | | |
| 10/20/2016 | 0.002 (J) | | | | | |
| 12/6/2016 | 0.0011 (J) | | | | | |
| 1/26/2017 | 0.0006 (J) | | | | | |
| 3/22/2017 | 0.0005 (J) | | | | | |
| 5/23/2017 | 0.0006 (J) | | | | | |
| 4/3/2018 | <0.01 | | | | | |
| 3/13/2019 | 0.00065 (J) | | 0.0011 (J) | <0.005 | <0.005 | <0.005 |
| 3/14/2019 | | 0.025 | | | | |
| 4/2/2019 | | | <0.005 | | | |
| 4/3/2019 | 0.00069 (J) | 0.036 | | | <0.005 | |
| 4/4/2019 | | | | | | 9.1E-05 (J) |
| 4/8/2019 | | | | 0.00025 (J) | | |
| 9/25/2019 | | | <0.005 | | | |
| 9/26/2019 | | | | 0.0011 (J) | 0.00053 (J) | <0.005 |
| 9/27/2019 | 0.00057 (J) | 0.033 | | | | |
| 3/2/2020 | | | <0.005 | | | |
| 3/4/2020 | 0.00053 (J) | 0.048 | | 0.00056 (J) | <0.005 | 0.00045 (J) |
| 3/26/2020 | | 0.045 | | | | |
| 3/27/2020 | | | <0.005 | | | |
| 3/30/2020 | | | | <0.005 | | |
| 3/31/2020 | 0.00051 (J) | | | | 0.0003 (J) | |
| 4/2/2020 | | | | | | <0.005 |
| 9/17/2020 | 0.0007 (J) | | <0.005 | | <0.005 | |
| 9/18/2020 | | | | | | <0.005 |
| 9/21/2020 | | 0.032 | | <0.005 | | |
| 2/11/2021 | | | <0.005 | | | |
| 2/12/2021 | | 0.037 | | | | |
| 2/16/2021 | 0.00061 (J) | | | <0.005 | 0.00045 (J) | 0.0004 (J) |
| 3/12/2021 | | | | | | <0.005 |
| 3/15/2021 | | | <0.005 | | | |
| 3/16/2021 | 0.00069 (J) | | | | | |
| 3/17/2021 | | 0.037 | | <0.005 | 0.00044 (J) | |
| 8/17/2021 | 0.00045 (J) | | <0.005 | | 0.00045 (J) | <0.005 |
| 8/18/2021 | | 0.039 | | | | |
| 8/19/2021 | | | | <0.005 | | |
| 2/9/2022 | 0.00051 (J) | 0.03 | | | 0.00059 (J) | |
| 2/10/2022 | | | <0.005 | <0.005 | | <0.005 |
| 8/3/2022 | | | | <0.005 | | <0.005 |
| 8/4/2022 | 0.00046 (J) | 0.043 | <0.005 | | 0.00048 (J) | |
| 1/26/2023 | 0.00068 (J) | 0.022 | <0.005 | <0.005 | 0.00051 (J) | |
| 1/27/2023 | | | | | | <0.005 |
| 8/10/2023 | | 0.027 | <0.005 | | | |
| 8/11/2023 | 0.00057 (J) | | | | <0.005 | |
| 8/12/2023 | | | | <0.005 | | <0.005 |
| Mean | 0.001078 | 0.03492 | 0.0047 | 0.003993 | 0.002212 | 0.003919 |
| Std. Dev. | 0.00131 | 0.007794 | 0.001082 | 0.001921 | 0.002295 | 0.002057 |
| Upper Lim. | 0.0007 | 0.04072 | 0.005 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.00053 | 0.02913 | 0.0011 | 0.00056 | 0.00044 | 0.0004 |

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-6 |
|------------|-------------|-------------|-------------|
| 3/12/2019 | <0.005 | 0.00057 (J) | |
| 3/13/2019 | | | 0.00055 (J) |
| 4/2/2019 | <0.005 | 0.00084 (J) | |
| 4/3/2019 | | | <0.005 |
| 9/24/2019 | | 0.0015 (J) | |
| 9/26/2019 | <0.005 | | 0.00036 (J) |
| 3/2/2020 | | 0.00067 (J) | |
| 3/3/2020 | | | 0.00094 (J) |
| 3/4/2020 | 0.00093 (J) | | |
| 3/27/2020 | <0.005 | | 0.00059 (J) |
| 3/30/2020 | | 0.00063 (J) | |
| 9/16/2020 | | 0.0013 (J) | |
| 9/21/2020 | <0.005 | | 0.00041 (J) |
| 2/10/2021 | <0.005 | | |
| 2/15/2021 | | 0.00097 (J) | |
| 2/16/2021 | | | 0.00045 (J) |
| 3/15/2021 | <0.005 | 0.0011 (J) | |
| 3/16/2021 | | | 0.00042 (J) |
| 8/16/2021 | | 0.0014 (J) | |
| 8/17/2021 | | | <0.005 |
| 8/18/2021 | <0.005 | | |
| 2/9/2022 | | | 0.00059 (J) |
| 2/10/2022 | <0.005 | 0.00089 (J) | |
| 8/3/2022 | | 0.0012 (J) | 0.00041 (J) |
| 8/4/2022 | <0.005 | | |
| 1/26/2023 | <0.005 | 0.00056 (J) | 0.00044 (J) |
| 8/10/2023 | | <0.005 | 0.00041 (J) |
| 8/11/2023 | <0.005 | | |
| Mean | 0.004687 | 0.001087 | 0.001198 |
| Std. Dev. | 0.001129 | 0.0005295 | 0.001694 |
| Upper Lim. | 0.005 | 0.001421 | 0.00094 |
| Lower Lim. | 0.00093 | 0.0007121 | 0.00041 |

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 5/20/2016 | | | | | 0.62 (U) | 0.56 (U) |
| 5/23/2016 | 0.419 (U) | 0.509 (U) | 1.12 | 0.625 (U) | | |
| 7/12/2016 | 0.855 | 0.784 (U) | 1.61 | 0.478 (U) | 0.283 (U) | 0.636 (U) |
| 9/1/2016 | 0.844 (U) | 0.261 (U) | 1.23 | 0.595 (U) | 0.703 (U) | 0.818 (U) |
| 10/20/2016 | | | | | 1.97 | 1.04 (U) |
| 10/24/2016 | 0.917 (U) | 1.42 | 1.98 | 1.54 | | |
| 12/6/2016 | | | | | 2 | 0.771 (U) |
| 12/7/2016 | 0.558 (U) | 0.781 (U) | 0.319 (U) | 0.657 (U) | | |
| 1/25/2017 | | | | | 1.06 (U) | 0.859 (U) |
| 1/26/2017 | 0.922 (U) | 0.842 (U) | 0.54 (U) | 1.22 | | |
| 3/21/2017 | | | | | 0.668 (U) | 0.851 (U) |
| 3/22/2017 | 0.751 (U) | 0.318 (U) | 0.635 (U) | 0.285 (U) | | |
| 5/23/2017 | | | | | 0.621 (U) | 0.705 (U) |
| 5/24/2017 | 0.725 (U) | 0.687 (U) | 1.01 | 0.655 (U) | | |
| 4/3/2018 | | | | | 0.538 (U) | 0.311 (U) |
| 4/4/2018 | 0.715 (U) | 1.5 | 0.956 | 0.882 (U) | | |
| 6/5/2018 | 0.718 (U) | 0.549 (U) | | 1.1 (U) | 0.985 (U) | |
| 6/6/2018 | | | 0.424 (U) | | | 0.896 (U) |
| 10/2/2018 | 0.948 | | | | 0.837 (U) | 1.21 |
| 10/3/2018 | | 1.48 | 0.57 (U) | | | |
| 10/5/2018 | | | | 0.558 (U) | | |
| 3/12/2019 | | | | | | 0.544 (U) |
| 3/13/2019 | 1.19 (U) | 0.584 (U) | | 0.39 (U) | 0.403 (U) | |
| 3/14/2019 | | | 0.992 (U) | | | |
| 4/2/2019 | | | | | 0.865 (U) | |
| 4/3/2019 | 1.82 (U) | 0.36 (U) | 0.734 (U) | | | 0.885 (U) |
| 4/5/2019 | | | | 0.422 (U) | | |
| 9/24/2019 | | | | | | 1.3 |
| 9/25/2019 | | | | | 0.884 (U) | |
| 9/26/2019 | | | | 0.939 (U) | | |
| 9/27/2019 | 1.16 (U) | 1.78 | 0.958 (U) | | | |
| 3/3/2020 | 0.667 (U) | 0.716 (U) | 0.971 (U) | | | 0.835 (U) |
| 3/4/2020 | | | | 0.708 (U) | 0.624 (U) | |
| 3/26/2020 | | | 0.209 (U) | | | |
| 3/27/2020 | | | | | 0.485 (U) | 1.04 (U) |
| 3/30/2020 | | | | 0.602 (U) | | |
| 3/31/2020 | | 1.3 (U) | | | | |
| 4/1/2020 | 0.235 (U) | | | | | |
| 9/16/2020 | 0 (U) | | | | 0.135 (U) | 0.526 (U) |
| 9/18/2020 | | 1.24 (U) | 0.916 (U) | | | |
| 9/21/2020 | | | | 1.53 | | |
| 2/10/2021 | | | | | 0.281 (U) | |
| 2/12/2021 | | 1.1 | 0.236 (U) | | | |
| 2/15/2021 | 1.91 | | | | | |
| 2/16/2021 | | | | | | 0.764 (U) |
| 2/22/2021 | | | | 1.02 | | |
| 3/12/2021 | 1.12 (U) | | | | | |
| 3/15/2021 | | | | | 0.666 (U) | 1.3 (U) |
| 3/16/2021 | | 1.71 | 0.245 (U) | | | |
| 3/17/2021 | | | | 1.45 (U) | | |
| 8/16/2021 | | | | | 0.143 (U) | |
| 8/17/2021 | 0.595 (U) | | | | | |

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 8/18/2021 | | 0.919 (U) | 0.919 (U) | | | 1.02 (U) |
| 8/19/2021 | | | | 0.764 (U) | | |
| 2/9/2022 | 0.49 (U) | 0.444 (U) | 0.564 (U) | | | |
| 2/10/2022 | | | | 0.442 (U) | 0.175 (U) | 0.945 (U) |
| 8/3/2022 | 0.454 (U) | 0.823 (U) | 0.418 (U) | 0.54 (U) | 0.42 (U) | 0.455 (U) |
| 8/11/2022 | | | | | 0.461 (U) | |
| 1/26/2023 | | 0.441 (U) | 0.877 | 0.719 | | |
| 1/27/2023 | 1.2 | | | | 0.45 (U) | |
| 2/1/2023 | | | | | | 0.241 (U) |
| 8/10/2023 | 0.831 (U) | 0.273 (U) | 0.453 (U) | | | |
| 8/12/2023 | | | | 0.58 (U) | 0.729 (U) | 0.767 (U) |
| Mean | 0.8352 | 0.8675 | 0.7869 | 0.7792 | 0.6802 | 0.8033 |
| Std. Dev. | 0.4326 | 0.4677 | 0.4347 | 0.3603 | 0.4663 | 0.2785 |
| Upper Lim. | 1.056 | 1.106 | 1.009 | 0.9631 | 0.8357 | 0.9454 |
| Lower Lim. | 0.6144 | 0.6289 | 0.5651 | 0.5954 | 0.428 | 0.6612 |

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D |
|------------|-----------|-----------|-----------|------------|-----------|------------|
| 5/23/2016 | 0.826 (U) | | | | | |
| 7/12/2016 | 0.511 (U) | | | | | |
| 9/1/2016 | 0.762 (U) | | | | | |
| 10/20/2016 | 1.17 | | | | | |
| 12/6/2016 | 0.126 (U) | | | | | |
| 1/26/2017 | 0.515 (U) | | | | | |
| 3/22/2017 | 0.451 (U) | | | | | |
| 5/23/2017 | 0.924 (U) | | | | | |
| 4/3/2018 | 0.732 (U) | | | | | |
| 6/6/2018 | 0.813 (U) | | | | | |
| 10/2/2018 | 0.61 (U) | | | | | |
| 3/13/2019 | 1 (U) | | 0.538 (U) | 0.311 (U) | | 0.627 (U) |
| 3/14/2019 | | 0.347 (U) | | | 1.28 (U) | |
| 4/2/2019 | | | 1.02 (U) | | | |
| 4/3/2019 | 0.156 (U) | 0.884 (U) | | | 0.662 (U) | 0.205 (U) |
| 4/8/2019 | | | | 0.573 (U) | | |
| 9/25/2019 | | | 1.35 (U) | | | |
| 9/26/2019 | | | | 0.878 (U) | | 0.912 (U) |
| 9/27/2019 | 0.428 (U) | 0.534 (U) | | | 0.945 (U) | |
| 3/2/2020 | | | 0.653 (U) | | | |
| 3/3/2020 | | | | | 1.36 | |
| 3/4/2020 | 1.03 | 1.04 | | 0.333 (U) | | 1.27 (U) |
| 3/26/2020 | | 1.1 (U) | | | 0.793 (U) | |
| 3/27/2020 | | | 0.1 (U) | | | |
| 3/30/2020 | | | | 0.107 (U) | | |
| 3/31/2020 | 1.2 (U) | | | | | 1.65 |
| 9/17/2020 | 1.38 (U) | | 0.469 (U) | | | 0.42 (U) |
| 9/18/2020 | | | | | 1.17 (U) | |
| 9/21/2020 | | 1.36 (U) | | 1.23 (U) | | |
| 2/11/2021 | | | 0.334 (U) | | | |
| 2/12/2021 | | 0.764 (U) | | | 1.17 | |
| 2/16/2021 | 1.17 (U) | | | 0.156 (U) | | 0.505 (U) |
| 3/15/2021 | | | 1.24 (U) | | | |
| 3/16/2021 | 0.446 (U) | | | | 0.742 (U) | |
| 3/17/2021 | | 0.466 (U) | | 0.174 (U) | | 0.165 (U) |
| 8/17/2021 | 0.771 (U) | | 0.709 (U) | | | 0.0468 (U) |
| 8/18/2021 | | 0.642 (U) | | | | |
| 8/19/2021 | | | | 0.227 (U) | 0.935 (U) | |
| 2/9/2022 | 0.198 (U) | 0.245 (U) | | | 0.754 (U) | 0.0677 (U) |
| 2/10/2022 | | | 0.32 (U) | 0.178 (U) | | |
| 8/3/2022 | | | | 0.263 (U) | | |
| 8/4/2022 | 0.597 (U) | 0.509 (U) | 1.05 (U) | | 1.65 | 0.0273 (U) |
| 1/26/2023 | 0.516 (U) | 0.333 (U) | 0.561 (U) | 0.0906 (U) | 1.1 | 0.386 (U) |
| 8/10/2023 | | 0.437 (U) | 0.469 (U) | | 0.972 | |
| 8/11/2023 | 0.867 (U) | | | | | 0.55 (U) |
| 8/12/2023 | | | | 0.481 (U) | | |
| Mean | 0.7166 | 0.6662 | 0.6779 | 0.3847 | 1.041 | 0.5255 |
| Std. Dev. | 0.3403 | 0.3406 | 0.3792 | 0.3358 | 0.2841 | 0.4941 |
| Upper Lim. | 0.8903 | 0.9195 | 0.9599 | 0.5693 | 1.252 | 0.8929 |
| Lower Lim. | 0.543 | 0.413 | 0.396 | 0.1574 | 0.8297 | 0.1581 |

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-27D | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 3/12/2019 | | 0.926 (U) | 1.37 | | | |
| 3/13/2019 | 1.81 | | | 0.621 (U) | 2.07 | 1.23 |
| 4/2/2019 | | 0.479 (U) | 0.62 (U) | | | |
| 4/3/2019 | | | | 0.932 (U) | 0.872 (U) | 1.05 (U) |
| 4/4/2019 | 1.33 | | | | | |
| 9/24/2019 | | | 0.675 (U) | | | |
| 9/25/2019 | | | | 0.798 (U) | | |
| 9/26/2019 | 0.974 (U) | 0.997 (U) | | | 0.745 (U) | 0.947 (U) |
| 3/2/2020 | | | 0.413 (U) | 0.964 (U) | | |
| 3/3/2020 | | | | | 0.757 (U) | 1.15 |
| 3/4/2020 | 1.12 | 1.31 | | | | |
| 3/26/2020 | | | | 1.1 | | |
| 3/27/2020 | | 1.59 | | | 0.758 (U) | |
| 3/30/2020 | | | 0.885 (U) | | | 0.83 (U) |
| 4/2/2020 | 2.48 | | | | | |
| 9/16/2020 | | | 0.193 (U) | | | |
| 9/17/2020 | | | | 0.618 (U) | | |
| 9/18/2020 | 1.13 (U) | | | | | |
| 9/21/2020 | | 1.39 (U) | | | 0.796 (U) | 1.55 (U) |
| 2/10/2021 | | 0.201 (U) | | | | |
| 2/15/2021 | | | 1.17 (U) | | | 0.892 (U) |
| 2/16/2021 | 1.21 | | | 0.466 (U) | 0.198 (U) | |
| 3/12/2021 | 0.649 (U) | | | | | |
| 3/15/2021 | | 0.564 (U) | 0.436 (U) | | | 0.386 (U) |
| 3/16/2021 | | | | 1.22 | 0.727 (U) | |
| 8/16/2021 | | | 0.208 (U) | | | |
| 8/17/2021 | 1.06 (U) | | | 0.304 (U) | 0.557 (U) | 0.183 (U) |
| 8/18/2021 | | 0.876 (U) | | | | |
| 2/8/2022 | | | | | | 0.417 (U) |
| 2/9/2022 | | | | 0.567 (U) | 0.619 (U) | |
| 2/10/2022 | 0.809 (U) | 1.96 (U) | 0.594 (U) | | | |
| 8/3/2022 | 0.685 (U) | | 0.581 (U) | 0.63 (U) | 0.543 (U) | |
| 8/4/2022 | | 0.84 (U) | | | | 1.18 (U) |
| 1/26/2023 | | 0.821 | 0.793 (U) | 0.909 | 0.493 (U) | 0.318 (U) |
| 1/27/2023 | 1.1 | | | | | |
| 8/10/2023 | | | 0.244 (U) | 0.599 (U) | 0.839 (U) | 0.239 (U) |
| 8/11/2023 | | 2.66 | | | | |
| 8/12/2023 | 0.645 (U) | | | | | |
| Mean | 1.154 | 1.124 | 0.6294 | 0.7483 | 0.7672 | 0.7978 |
| Std. Dev. | 0.51 | 0.6615 | 0.3582 | 0.2637 | 0.4313 | 0.4429 |
| Upper Lim. | 1.479 | 1.616 | 0.8957 | 0.9444 | 0.872 | 1.127 |
| Lower Lim. | 0.7939 | 0.6323 | 0.3631 | 0.5523 | 0.493 | 0.4685 |

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|------------|-----------|-----------|------------|------------|--------|
| 5/20/2016 | | | | | 0.0828 (J) | 0.499 |
| 5/23/2016 | 0.0394 (J) | 0.203 (J) | 0.212 (J) | 0.2587 (J) | | |
| 7/12/2016 | 0.15 (J) | 0.44 | 0.31 | 0.53 | 0.2 (J) | 0.67 |
| 9/1/2016 | 0.5 | 0.67 | 0.62 | 0.74 | 0.51 | 0.94 |
| 10/20/2016 | | | | | 0.4 | 0.56 |
| 10/24/2016 | 0.06 (J) | 0.26 (J) | 0.19 (J) | 0.31 | | |
| 12/6/2016 | | | | | 0.26 (J) | 0.76 |
| 12/7/2016 | 0.44 | 0.55 | 0.73 | 1 | | |
| 1/25/2017 | | | | | 0.24 (J) | 1.1 |
| 1/26/2017 | 0.29 (J) | 0.27 (J) | 0.12 (J) | 0.68 | | |
| 3/21/2017 | | | | | 0.13 (J) | 0.46 |
| 3/22/2017 | 0.34 | 0.66 | 0.44 | 0.76 | | |
| 5/23/2017 | | | | | 0.11 (J) | 0.65 |
| 5/24/2017 | 0.13 (J) | 0.35 | 0.34 | 0.54 | | |
| 10/3/2017 | 0.46 | 0.56 | 0.58 | 0.83 | 0.17 (J) | 0.66 |
| 4/3/2018 | | | | | <0.3 | 0.39 |
| 4/4/2018 | <0.1 | 0.39 | <0.3 | 0.65 | | |
| 6/5/2018 | <0.1 | 0.24 (J) | | 0.47 | 0.099 (J) | |
| 6/6/2018 | | | 0.21 (J) | | | 0.46 |
| 10/2/2018 | 0.17 (J) | | | | <0.3 | 0.51 |
| 10/3/2018 | | 0.31 | 0.15 (J) | | | |
| 10/5/2018 | | | | 0.77 | | |
| 3/12/2019 | | | | | | 0.58 |
| 3/13/2019 | 0.17 (J) | 0.51 | | 0.78 | 0.12 (J) | |
| 3/14/2019 | | | 1.1 | | | |
| 4/2/2019 | | | | | 0.097 (J) | |
| 4/3/2019 | 0.082 (J) | 0.43 | 0.3 (J) | | | 0.63 |
| 4/5/2019 | | | | 0.83 | | |
| 9/24/2019 | | | | | | 0.49 |
| 9/25/2019 | | | | | 0.1 (J) | |
| 9/26/2019 | | | | 0.64 | | |
| 9/27/2019 | 0.17 (J) | 0.42 | 0.26 (J) | | | |
| 3/3/2020 | 0.11 (J) | 0.24 (J) | 0.21 (J) | | | 0.45 |
| 3/4/2020 | | | | 0.37 | 0.077 (J) | |
| 3/26/2020 | | | 0.17 (J) | | | |
| 3/27/2020 | | | | | 0.059 (J) | 0.46 |
| 3/30/2020 | | | | 0.44 | | |
| 3/31/2020 | | 0.19 (J) | | | | |
| 4/1/2020 | 0.12 (J) | | | | | |
| 6/16/2020 | | | | | | 0.45 |
| 6/17/2020 | | | | | 0.077 (J) | |
| 9/16/2020 | <0.1 | | | | 0.081 (J) | 0.53 |
| 9/18/2020 | | 0.15 | 0.15 | | | |
| 9/21/2020 | | | | 0.44 | | |
| 2/10/2021 | | | | | 0.085 (J) | |
| 2/12/2021 | | 0.17 | 0.19 | | | |
| 2/15/2021 | 0.08 (J) | | | | | |
| 2/16/2021 | | | | | | 0.47 |
| 2/22/2021 | | | | 0.55 | | |
| 3/12/2021 | 0.054 (J) | | | | | |
| 3/15/2021 | | | | | 0.086 (J) | 0.51 |
| 3/16/2021 | | 0.21 | 0.2 | | | |

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|----------|---------|---------|---------|-----------|--------|
| 3/17/2021 | | | | 0.65 | | |
| 8/16/2021 | | | | | 0.084 (J) | |
| 8/17/2021 | <0.1 | | | | | |
| 8/18/2021 | | 0.21 | 0.15 | | | 0.41 |
| 8/19/2021 | | | | 0.53 | | |
| 2/9/2022 | 0.12 | 0.2 | 0.2 | | | |
| 2/10/2022 | | | | 0.53 | 0.083 (J) | 0.42 |
| 8/3/2022 | 0.13 | 0.22 | 0.21 | 0.55 | 0.11 | 0.44 |
| 8/11/2022 | | | | | 0.11 | |
| 1/26/2023 | | 0.2 | 0.21 | 0.4 | | |
| 1/27/2023 | 0.16 | | | | 0.1 | |
| 2/1/2023 | | | | | | 0.4 |
| 8/10/2023 | 0.05 (J) | 0.15 | 0.17 | | | |
| 8/12/2023 | | | | 0.32 | 0.071 (J) | 0.59 |
| Mean | 0.169 | 0.3281 | 0.3029 | 0.5827 | 0.1423 | 0.5573 |
| Std. Dev. | 0.1313 | 0.1605 | 0.2299 | 0.1872 | 0.1041 | 0.1673 |
| Upper Lim. | 0.1782 | 0.3899 | 0.31 | 0.6761 | 0.15 | 0.6099 |
| Lower Lim. | 0.07724 | 0.2407 | 0.17 | 0.4894 | 0.083 | 0.4748 |

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | MW-19 | MW-20 | MW-24D | MW-25D | MW-26D |
|------------|-----------|-----------|-----------|-----------|--------|-----------|
| 5/23/2016 | <0.3 | | | | | |
| 7/12/2016 | 0.24 (J) | | | | | |
| 9/1/2016 | 0.46 | | | | | |
| 10/20/2016 | 0.56 | | | | | |
| 12/6/2016 | 0.31 | | | | | |
| 1/26/2017 | 0.004 (J) | | | | | |
| 3/22/2017 | 0.28 (J) | | | | | |
| 5/23/2017 | 0.29 (J) | | | | | |
| 10/3/2017 | 0.53 | | | | | |
| 4/3/2018 | <0.3 | | | | | |
| 6/6/2018 | 0.12 (J) | | | | | |
| 10/2/2018 | 0.031 (J) | | | | | |
| 3/13/2019 | 0.14 (J) | | 0.072 (J) | 0.074 (J) | | 0.052 (J) |
| 3/14/2019 | | 0.35 | | | 2.2 | |
| 4/2/2019 | | | <0.1 | | | |
| 4/3/2019 | 0.14 (J) | 0.19 (J) | | | 1.6 | 0.044 (J) |
| 4/8/2019 | | | | 0.048 (J) | | |
| 9/25/2019 | | | <0.1 | | | |
| 9/26/2019 | | | | 0.18 (J) | | 0.19 (J) |
| 9/27/2019 | 0.26 (J) | 0.53 | | | 1.5 | |
| 3/2/2020 | | | <0.1 | | | |
| 3/3/2020 | | | | | 1.4 | |
| 3/4/2020 | 0.08 (J) | 0.096 (J) | | 0.051 (J) | | 0.052 (J) |
| 3/26/2020 | | 0.12 (J) | | | 1.6 | |
| 3/27/2020 | | | <0.1 | | | |
| 3/30/2020 | | | | 0.064 (J) | | |
| 3/31/2020 | 0.074 (J) | | | | | <0.3 |
| 9/17/2020 | 0.1 | | <0.1 | | | 0.069 (J) |
| 9/18/2020 | | | | | 1.6 | |
| 9/21/2020 | | 0.17 | | <0.1 | | |
| 2/11/2021 | | | <0.1 | | | |
| 2/12/2021 | | 0.16 | | | 1.6 | |
| 2/16/2021 | 0.096 (J) | | | <0.1 | | 0.071 (J) |
| 3/15/2021 | | | <0.1 | | | |
| 3/16/2021 | 0.098 (J) | | | | 1.7 | |
| 3/17/2021 | | 0.18 | | <0.1 | | 0.072 (J) |
| 8/17/2021 | 0.095 (J) | | <0.1 | | | 0.075 (J) |
| 8/18/2021 | | 0.12 | | | | |
| 8/19/2021 | | | | <0.1 | 1.5 | |
| 2/9/2022 | 0.1 | 0.076 (J) | | | 1.7 | 0.092 (J) |
| 2/10/2022 | | | <0.1 | 0.051 (J) | | |
| 8/3/2022 | | | | 0.075 (J) | | |
| 8/4/2022 | 0.13 | 0.18 | 0.074 (J) | | 1.5 | 0.12 |
| 1/26/2023 | 0.11 | 0.098 (J) | 0.081 (J) | 0.083 (J) | 1.6 | 0.11 |
| 8/10/2023 | | 0.14 | <0.1 | | 1.5 | |
| 8/11/2023 | 0.12 | | | | | 0.083 (J) |
| 8/12/2023 | | | | 0.08 (J) | | |
| Mean | 0.1867 | 0.1854 | 0.09438 | 0.08508 | 1.615 | 0.09077 |
| Std. Dev. | 0.1473 | 0.1242 | 0.01084 | 0.03452 | 0.1951 | 0.04213 |
| Upper Lim. | 0.233 | 0.2368 | 0.1 | 0.09377 | 1.7 | 0.1221 |
| Lower Lim. | 0.103 | 0.108 | 0.074 | 0.05216 | 1.5 | 0.05944 |

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-27D | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|------------|----------|----------|-----------|-----------|-----------|-----------|
| 3/12/2019 | | 0.24 (J) | 0.07 (J) | | | |
| 3/13/2019 | 0.28 (J) | | | 0.1 (J) | 0.19 (J) | 0.069 (J) |
| 4/2/2019 | | 0.18 (J) | 0.045 (J) | | | |
| 4/3/2019 | | | | 0.049 (J) | 0.15 (J) | <0.1 |
| 4/4/2019 | 0.26 (J) | | | | | |
| 9/24/2019 | | | 0.18 (J) | | | |
| 9/25/2019 | | | | 0.076 (J) | | |
| 9/26/2019 | 0.42 | 0.22 (J) | | | 0.19 (J) | 0.17 (J) |
| 3/2/2020 | | | <0.1 | 0.065 (J) | | |
| 3/3/2020 | | | | | 0.062 (J) | <0.1 |
| 3/4/2020 | 0.25 (J) | 0.26 (J) | | | | |
| 3/26/2020 | | | | 0.082 (J) | | |
| 3/27/2020 | | 0.26 (J) | | | <0.1 | |
| 3/30/2020 | | | <0.1 | | | <0.1 |
| 4/2/2020 | 0.24 (J) | | | | | |
| 9/16/2020 | | | <0.1 | | | |
| 9/17/2020 | | | | 0.094 (J) | | |
| 9/18/2020 | 0.22 | | | | | |
| 9/21/2020 | | 0.1 | | | <0.1 | <0.1 |
| 2/10/2021 | | 0.16 | | | | |
| 2/15/2021 | | | <0.1 | | | <0.1 |
| 2/16/2021 | 0.25 | | | 0.051 (J) | 0.059 (J) | |
| 3/12/2021 | 0.24 | | | | | |
| 3/15/2021 | | 0.24 | <0.1 | | | <0.1 |
| 3/16/2021 | | | | <0.1 | 0.06 (J) | |
| 8/16/2021 | | | <0.1 | | | |
| 8/17/2021 | 0.24 | | | <0.1 | 0.055 (J) | <0.1 |
| 8/18/2021 | | 0.14 | | | | |
| 2/8/2022 | | | | | | <0.1 |
| 2/9/2022 | | | | 0.056 (J) | 0.059 (J) | |
| 2/10/2022 | 0.25 | 0.22 | <0.1 | | | |
| 8/3/2022 | 0.27 | | 0.069 (J) | 0.094 (J) | 0.085 (J) | |
| 8/4/2022 | | 0.19 | | | | 0.078 (J) |
| 1/26/2023 | | 0.22 | 0.068 (J) | 0.087 (J) | 0.088 (J) | 0.06 (J) |
| 1/27/2023 | 0.3 | | | | | |
| 8/10/2023 | | | <0.1 | 0.066 (J) | 0.053 (J) | <0.1 |
| 8/11/2023 | | 0.26 | | | | |
| 8/12/2023 | 0.26 | | | | | |
| Mean | 0.2677 | 0.2069 | 0.09477 | 0.07846 | 0.09623 | 0.09823 |
| Std. Dev. | 0.05003 | 0.05023 | 0.03156 | 0.01921 | 0.0496 | 0.02567 |
| Upper Lim. | 0.3 | 0.2443 | 0.18 | 0.08458 | 0.15 | 0.17 |
| Lower Lim. | 0.24 | 0.1696 | 0.068 | 0.05951 | 0.055 | 0.069 |

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|-----------|-------------|-------------|-------------|-------------|-------------|
| 5/20/2016 | | | | | <0.001 | <0.001 |
| 5/23/2016 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| 7/12/2016 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 9/1/2016 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 10/20/2016 | | | | | <0.001 | <0.001 |
| 10/24/2016 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| 12/6/2016 | | | | | 0.0001 (J) | <0.001 |
| 12/7/2016 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| 1/25/2017 | | | | | 0.0001 (J) | <0.001 |
| 1/26/2017 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| 3/21/2017 | | | | | 9E-05 (J) | <0.001 |
| 3/22/2017 | <0.001 | 0.0003 (J) | <0.001 | 7E-05 (J) | | |
| 5/23/2017 | | | | | 8E-05 (J) | <0.001 |
| 5/24/2017 | <0.001 | 9E-05 (J) | <0.001 | <0.001 | | |
| 4/3/2018 | | | | | <0.001 | <0.001 |
| 4/4/2018 | <0.001 | <0.001 | <0.001 | <0.001 | | |
| 3/12/2019 | | | | | | <0.001 |
| 3/13/2019 | <0.001 | <0.001 | | <0.001 | <0.001 | |
| 3/14/2019 | | | <0.001 | | | |
| 3/3/2020 | <0.001 | 0.00021 (J) | 5.6E-05 (J) | | | 0.00013 (J) |
| 3/4/2020 | | | | 0.00014 (J) | 0.00051 (J) | |
| 3/26/2020 | | | 0.00043 (J) | | | |
| 3/27/2020 | | | | | 5.4E-05 (J) | <0.001 |
| 3/30/2020 | | | | 0.0001 (J) | | |
| 3/31/2020 | | 0.0003 (J) | | | | |
| 4/1/2020 | 5E-05 (J) | | | | | |
| 9/16/2020 | <0.001 | | | | 0.0002 (J) | 0.0002 (J) |
| 9/18/2020 | | 6E-05 (J) | 9.6E-05 (J) | | | |
| 9/21/2020 | | | | 0.00015 (J) | | |
| 2/10/2021 | | | | | 0.00056 (J) | |
| 2/12/2021 | | <0.001 | 6.7E-05 (J) | | | |
| 2/15/2021 | <0.001 | | | | | |
| 2/16/2021 | | | | | | 8.6E-05 (J) |
| 2/22/2021 | | | | 0.00018 (J) | | |
| 3/12/2021 | <0.001 | | | | | |
| 3/15/2021 | | | | | 0.0013 | 0.00011 (J) |
| 3/16/2021 | | 9.9E-05 (J) | 8.9E-05 (J) | | | |
| 3/17/2021 | | | | 0.00015 (J) | | |
| 8/16/2021 | | | | | <0.001 | |
| 8/17/2021 | <0.001 | | | | | |
| 8/18/2021 | | <0.001 | <0.001 | | | <0.001 |
| 8/19/2021 | | | | <0.001 | | |
| 2/9/2022 | <0.001 | <0.001 | <0.001 | | | |
| 2/10/2022 | | | | <0.001 | <0.001 | <0.001 |
| 8/3/2022 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 8/11/2022 | | | | | <0.001 | |
| 1/26/2023 | | <0.001 | <0.001 | <0.001 | | |
| 1/27/2023 | <0.001 | | | | <0.001 | |
| 2/1/2023 | | | | | | <0.001 |
| 8/10/2023 | <0.001 | <0.001 | <0.001 | | | |
| 8/12/2023 | | | | <0.001 | <0.001 | <0.001 |
| Mean | 0.0009525 | 0.000753 | 0.0007869 | 0.0007395 | 0.000714 | 0.0008263 |

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|-----------|-----------|-----------|-----------|-----------|----------|
| Std. Dev. | 0.0002124 | 0.0003911 | 0.0003856 | 0.0004088 | 0.0004263 | 0.000357 |
| Upper Lim. | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Lower Lim. | 5E-05 | 0.0003 | 0.00043 | 0.00015 | 0.0001 | 0.0002 |

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | MW-19 | MW-20 | MW-24D | MW-26D | MW-27D |
|------------|-------------|-------------|-------------|-------------|------------|-------------|
| 5/23/2016 | <0.001 | | | | | |
| 7/12/2016 | <0.001 | | | | | |
| 9/1/2016 | <0.001 | | | | | |
| 10/20/2016 | <0.001 | | | | | |
| 12/6/2016 | 0.0002 (J) | | | | | |
| 1/26/2017 | 0.0001 (J) | | | | | |
| 3/22/2017 | <0.001 | | | | | |
| 5/23/2017 | 0.0001 (J) | | | | | |
| 4/3/2018 | <0.001 | | | | | |
| 3/13/2019 | <0.001 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 3/14/2019 | | <0.001 | | | | |
| 3/2/2020 | | | 0.00017 (J) | | | |
| 3/4/2020 | 8.4E-05 (J) | 0.00011 (J) | | 0.00019 (J) | <0.001 | <0.001 |
| 3/26/2020 | | <0.001 | | | | |
| 3/27/2020 | | | 0.00013 (J) | | | |
| 3/30/2020 | | | | 6.4E-05 (J) | | |
| 3/31/2020 | 0.00014 (J) | | | | 0.0001 (J) | |
| 4/2/2020 | | | | | | 0.00013 (J) |
| 9/17/2020 | 0.00022 (J) | | <0.001 | | <0.001 | |
| 9/18/2020 | | | | | | <0.001 |
| 9/21/2020 | | 8.5E-05 (J) | | 4.2E-05 (J) | | |
| 2/11/2021 | | | 3.9E-05 (J) | | | |
| 2/12/2021 | | 7.1E-05 (J) | | | | |
| 2/16/2021 | 0.0002 (J) | | | 0.00012 (J) | 8E-05 (J) | 0.00043 (J) |
| 3/12/2021 | | | | | | <0.001 |
| 3/15/2021 | | | 0.0001 (J) | | | |
| 3/16/2021 | 0.00027 (J) | | | | | |
| 3/17/2021 | | 3.8E-05 (J) | | 4E-05 (J) | <0.001 | |
| 8/17/2021 | <0.001 | | <0.001 | | <0.001 | <0.001 |
| 8/18/2021 | | <0.001 | | | | |
| 8/19/2021 | | | | <0.001 | | |
| 2/9/2022 | <0.001 | <0.001 | | | <0.001 | |
| 2/10/2022 | | | <0.001 | <0.001 | | <0.001 |
| 8/3/2022 | | | | <0.001 | | <0.001 |
| 8/4/2022 | <0.001 | <0.001 | <0.001 | | <0.001 | |
| 1/26/2023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | |
| 1/27/2023 | | | | | | <0.001 |
| 8/10/2023 | | <0.001 | <0.001 | | | |
| 8/11/2023 | <0.001 | | | | <0.001 | |
| 8/12/2023 | | | | <0.001 | | <0.001 |
| Mean | 0.0006657 | 0.000664 | 0.0006763 | 0.0005869 | 0.0008345 | 0.0008691 |
| Std. Dev. | 0.0004221 | 0.0004665 | 0.0004502 | 0.0004763 | 0.0003681 | 0.0002989 |
| Upper Lim. | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Lower Lim. | 0.0002 | 7.1E-05 | 0.0001 | 4.2E-05 | 0.0001 | 0.00043 |

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-5 | MW-6 | MW-7 |
|------------|-------------|-------------|-------------|-------------|-------------|
| 3/12/2019 | <0.001 | <0.001 | | | |
| 3/13/2019 | | | <0.001 | <0.001 | <0.001 |
| 3/2/2020 | | 9E-05 (J) | 4.7E-05 (J) | | |
| 3/3/2020 | | | | 0.00013 (J) | 6.2E-05 (J) |
| 3/4/2020 | 0.001 (J) | | | | |
| 3/26/2020 | | | <0.001 | | |
| 3/27/2020 | 6.2E-05 (J) | | | <0.001 | |
| 3/30/2020 | | 0.00011 (J) | | | <0.001 |
| 9/16/2020 | | <0.001 | | | |
| 9/17/2020 | | | <0.001 | | |
| 9/21/2020 | 0.00018 (J) | | | 0.00026 (J) | <0.001 |
| 2/10/2021 | 0.00044 (J) | | | | |
| 2/15/2021 | | 5.2E-05 (J) | | | <0.001 |
| 2/16/2021 | | | <0.001 | 8.4E-05 (J) | |
| 3/15/2021 | 0.00034 (J) | <0.001 | | | <0.001 |
| 3/16/2021 | | | <0.001 | 3.6E-05 (J) | |
| 8/16/2021 | | <0.001 | | | |
| 8/17/2021 | | | <0.001 | <0.001 | <0.001 |
| 8/18/2021 | <0.001 | | | | |
| 2/8/2022 | | | | | <0.001 |
| 2/9/2022 | | | <0.001 | <0.001 | |
| 2/10/2022 | <0.001 | <0.001 | | | |
| 8/3/2022 | | <0.001 | <0.001 | <0.001 | |
| 8/4/2022 | <0.001 | | | | <0.001 |
| 1/26/2023 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 8/10/2023 | | <0.001 | <0.001 | <0.001 | <0.001 |
| 8/11/2023 | <0.001 | | | | |
| Mean | 0.0007293 | 0.0007502 | 0.0009134 | 0.0006827 | 0.0009147 |
| Std. Dev. | 0.0003867 | 0.0004281 | 0.0002873 | 0.0004433 | 0.0002828 |
| Upper Lim. | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Lower Lim. | 0.00018 | 9E-05 | 0.001 | 8.4E-05 | 0.001 |

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 | MW-19 |
|------------|------------|------------|------------|------------|------------|------------|
| 5/20/2016 | | | <0.05 | <0.05 | | |
| 5/23/2016 | 0.0107 (J) | 0.0422 (J) | | | <0.05 | |
| 7/12/2016 | 0.0113 (J) | 0.0366 (J) | 0.0021 (J) | 0.0023 (J) | 0.004 (J) | |
| 9/1/2016 | 0.0118 (J) | 0.04 (J) | 0.0025 (J) | 0.0029 (J) | 0.0044 (J) | |
| 10/20/2016 | | | 0.0021 (J) | 0.0027 (J) | 0.0027 (J) | |
| 10/24/2016 | 0.0114 (J) | 0.0435 (J) | | | | |
| 12/6/2016 | | | 0.0026 (J) | 0.0032 (J) | 0.005 (J) | |
| 12/7/2016 | 0.0155 (J) | 0.0477 (J) | | | | |
| 1/25/2017 | | | 0.0024 (J) | 0.0026 (J) | | |
| 1/26/2017 | 0.0099 (J) | 0.0342 (J) | | | 0.0042 (J) | |
| 3/21/2017 | | | 0.0026 (J) | 0.0029 (J) | | |
| 3/22/2017 | 0.0098 (J) | 0.0353 (J) | | | 0.0043 (J) | |
| 5/23/2017 | | | 0.0026 (J) | 0.0029 (J) | 0.0048 (J) | |
| 5/24/2017 | 0.0105 (J) | 0.0317 (J) | | | | |
| 4/3/2018 | | | 0.0023 (J) | 0.0025 (J) | 0.0043 (J) | |
| 4/4/2018 | 0.008 (J) | 0.031 (J) | | | | |
| 6/5/2018 | | 0.031 (J) | 0.0022 (J) | | | |
| 6/6/2018 | 0.0095 (J) | | | 0.0023 (J) | 0.0043 (J) | |
| 10/2/2018 | | | 0.003 (J) | 0.0025 (J) | 0.004 (J) | |
| 10/3/2018 | 0.0083 (J) | | | | | |
| 10/5/2018 | | 0.027 (J) | | | | |
| 3/12/2019 | | | | 0.0025 (J) | | |
| 3/13/2019 | | 0.029 (J) | 0.0024 (J) | | 0.004 (J) | |
| 3/14/2019 | 0.0058 (J) | | | | | 0.0089 (J) |
| 4/2/2019 | | | 0.002 (J) | | | |
| 4/3/2019 | 0.0066 (J) | | | 0.0025 (J) | 0.004 (J) | 0.0061 (J) |
| 4/5/2019 | | 0.023 (J) | | | | |
| 9/24/2019 | | | | 0.0024 (J) | | |
| 9/25/2019 | | | 0.0019 (J) | | | |
| 9/26/2019 | | 0.035 | | | | |
| 9/27/2019 | 0.011 (J) | | | | 0.0044 (J) | 0.013 (J) |
| 3/3/2020 | 0.0063 (J) | | | 0.0028 (J) | | |
| 3/4/2020 | | 0.041 | 0.0034 (J) | | 0.004 (J) | 0.01 (J) |
| 3/26/2020 | 0.0063 (J) | | | | | 0.013 (J) |
| 3/27/2020 | | | 0.002 (J) | 0.0026 (J) | | |
| 3/30/2020 | | 0.038 | | | | |
| 3/31/2020 | | | | | 0.0043 (J) | |
| 9/16/2020 | | | 0.0026 (J) | 0.0033 (J) | | |
| 9/17/2020 | | | | | 0.004 (J) | |
| 9/18/2020 | 0.01 (J) | | | | | |
| 9/21/2020 | | 0.028 (J) | | | | 0.013 (J) |
| 2/10/2021 | | | 0.0032 (J) | | | |
| 2/12/2021 | 0.0094 (J) | | | | | 0.012 (J) |
| 2/16/2021 | | | | 0.0027 (J) | 0.0045 (J) | |
| 2/22/2021 | | 0.032 | | | | |
| 3/15/2021 | | | 0.0038 (J) | 0.0029 (J) | | |
| 3/16/2021 | 0.0081 (J) | | | | 0.0046 (J) | |
| 3/17/2021 | | 0.031 | | | | 0.012 (J) |
| 8/16/2021 | | | 0.0025 (J) | | | |
| 8/17/2021 | | | | | 0.004 (J) | |
| 8/18/2021 | 0.0099 (J) | | | 0.0029 (J) | | 0.014 (J) |
| 8/19/2021 | | 0.028 (J) | | | | |

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 | HGWC-9 | MW-19 |
|------------|------------|-----------|------------|------------|------------|------------|
| 2/9/2022 | 0.01 (J) | | | | 0.0041 (J) | 0.0067 (J) |
| 2/10/2022 | | 0.031 | 0.0022 (J) | 0.003 (J) | | |
| 8/3/2022 | 0.0068 (J) | 0.029 (J) | 0.0019 (J) | 0.0026 (J) | | |
| 8/4/2022 | | | | | 0.0036 (J) | 0.013 (J) |
| 8/11/2022 | | | 0.0019 (J) | | | |
| 1/26/2023 | 0.0058 (J) | 0.04 | | | 0.0032 (J) | 0.0038 (J) |
| 1/27/2023 | | | 0.0018 (J) | | | |
| 2/1/2023 | | | | 0.0015 (J) | | |
| 8/10/2023 | 0.0075 (J) | | | | | 0.011 (J) |
| 8/11/2023 | | | | | 0.0035 (J) | |
| 8/12/2023 | | 0.051 | 0.0023 (J) | 0.0014 (J) | | |
| Mean | 0.009175 | 0.03484 | 0.003332 | 0.003538 | 0.004967 | 0.0105 |
| Std. Dev. | 0.002326 | 0.006919 | 0.004541 | 0.004593 | 0.004295 | 0.003208 |
| Upper Lim. | 0.01036 | 0.03837 | 0.0026 | 0.0029 | 0.0044 | 0.01289 |
| Lower Lim. | 0.007988 | 0.03131 | 0.0021 | 0.0025 | 0.004 | 0.008115 |

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-20 | MW-24D | MW-25D | MW-26D | MW-27D | MW-28D |
|------------|-------------|------------|-----------|------------|------------|------------|
| 3/12/2019 | | | | | | 0.011 (J) |
| 3/13/2019 | 0.0016 (J) | 0.0029 (J) | | 0.0033 (J) | 0.0097 (J) | |
| 3/14/2019 | | | 0.05 | | | |
| 4/2/2019 | 0.0015 (J) | | | | | 0.0052 (J) |
| 4/3/2019 | | | 0.047 (J) | 0.0034 (J) | | |
| 4/4/2019 | | | | | 0.0069 (J) | |
| 4/8/2019 | | 0.0027 (J) | | | | |
| 9/25/2019 | <0.03 | | | | | |
| 9/26/2019 | | 0.003 (J) | | 0.0041 (J) | 0.0055 (J) | 0.0055 (J) |
| 9/27/2019 | | | 0.047 | | | |
| 3/2/2020 | 0.00082 (J) | | | | | |
| 3/3/2020 | | | 0.05 | | | |
| 3/4/2020 | | 0.0026 (J) | | 0.03 (J) | 0.0047 (J) | 0.015 (J) |
| 3/26/2020 | | | 0.054 | | | |
| 3/27/2020 | 0.0012 (J) | | | | | 0.014 (J) |
| 3/30/2020 | | 0.0027 (J) | | | | |
| 3/31/2020 | | | | 0.0036 (J) | | |
| 4/2/2020 | | | | | 0.0068 (J) | |
| 9/17/2020 | <0.03 | | | 0.0032 (J) | | |
| 9/18/2020 | | | 0.046 | | 0.0084 (J) | |
| 9/21/2020 | | 0.0024 (J) | | | | 0.0053 (J) |
| 2/10/2021 | | | | | | 0.0092 (J) |
| 2/11/2021 | 0.001 (J) | | | | | |
| 2/12/2021 | | | 0.045 | | | |
| 2/16/2021 | | 0.0028 (J) | | 0.0038 (J) | 0.0078 (J) | |
| 3/12/2021 | | | | | 0.009 (J) | |
| 3/15/2021 | 0.0011 (J) | | | | | 0.013 (J) |
| 3/16/2021 | | | 0.049 | | | |
| 3/17/2021 | | 0.0027 (J) | | 0.004 (J) | | |
| 8/17/2021 | 0.00091 (J) | | | 0.0036 (J) | 0.0079 (J) | |
| 8/18/2021 | | | | | | 0.0086 (J) |
| 8/19/2021 | | 0.0027 (J) | 0.046 | | | |
| 2/9/2022 | | | 0.048 | 0.0039 (J) | | |
| 2/10/2022 | 0.00099 (J) | 0.0029 (J) | | | 0.0086 (J) | 0.014 (J) |
| 8/3/2022 | | 0.0024 (J) | | | 0.0063 (J) | |
| 8/4/2022 | 0.00075 (J) | | 0.04 | 0.0033 (J) | | 0.0088 (J) |
| 1/26/2023 | <0.03 | 0.0025 (J) | 0.036 | 0.0031 (J) | | 0.011 (J) |
| 1/27/2023 | | | | | 0.0072 (J) | |
| 8/10/2023 | <0.03 | | 0.038 | | | |
| 8/11/2023 | | | | 0.0029 (J) | | 0.016 (J) |
| 8/12/2023 | | 0.003 (J) | | | 0.0072 (J) | |
| Mean | 0.00999 | 0.002715 | 0.04585 | 0.005554 | 0.007385 | 0.01051 |
| Std. Dev. | 0.01389 | 0.0002035 | 0.005097 | 0.007354 | 0.001399 | 0.003765 |
| Upper Lim. | 0.03 | 0.002867 | 0.04964 | 0.0041 | 0.008425 | 0.01331 |
| Lower Lim. | 0.00082 | 0.002564 | 0.04206 | 0.0031 | 0.006344 | 0.007708 |

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-29 |
|------------|------------|
| 3/12/2019 | 0.0024 (J) |
| 4/2/2019 | 0.0021 (J) |
| 9/24/2019 | 0.0022 (J) |
| 3/2/2020 | 0.0025 (J) |
| 3/30/2020 | 0.0023 (J) |
| 9/16/2020 | 0.0021 (J) |
| 2/15/2021 | 0.0024 (J) |
| 3/15/2021 | 0.0022 (J) |
| 8/16/2021 | 0.0021 (J) |
| 2/10/2022 | 0.0023 (J) |
| 8/3/2022 | 0.0018 (J) |
| 1/26/2023 | 0.0019 (J) |
| 8/10/2023 | 0.0019 (J) |
| Mean | 0.002169 |
| Std. Dev. | 0.0002136 |
| Upper Lim. | 0.002328 |
| Lower Lim. | 0.00201 |

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-13 | HGWC-9 | MW-25D | MW-29 |
|------------|-----------|-----------|-----------|-----------|-------------|-------------|
| 5/23/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | |
| 7/12/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | |
| 9/1/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | |
| 10/20/2016 | | | | <0.0002 | | |
| 10/24/2016 | <0.0002 | <0.0002 | <0.0002 | | | |
| 12/6/2016 | | | | <0.0002 | | |
| 12/7/2016 | <0.0002 | <0.0002 | <0.0002 | | | |
| 1/26/2017 | 5E-05 (J) | 5E-05 (J) | 4E-05 (J) | 4E-05 (J) | | |
| 3/22/2017 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | |
| 5/23/2017 | | | | <0.0002 | | |
| 5/24/2017 | <0.0002 | <0.0002 | 5E-05 (J) | | | |
| 4/3/2018 | | | | <0.0002 | | |
| 4/4/2018 | <0.0002 | <0.0002 | <0.0002 | | | |
| 3/12/2019 | | | | | | <0.0002 |
| 3/13/2019 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | |
| 3/14/2019 | | | | | <0.0002 | |
| 3/2/2020 | | | | | | <0.0002 |
| 3/3/2020 | <0.0002 | <0.0002 | | | <0.0002 | |
| 3/4/2020 | | | <0.0002 | <0.0002 | | |
| 2/12/2021 | | <0.0002 | | | <0.0002 | |
| 2/15/2021 | <0.0002 | | | | | <0.0002 |
| 2/16/2021 | | | | <0.0002 | | |
| 2/22/2021 | | | <0.0002 | | | |
| 2/9/2022 | <0.0002 | <0.0002 | | <0.0002 | <0.0002 | |
| 2/10/2022 | | | <0.0002 | | | <0.0002 |
| 8/3/2022 | <0.0002 | <0.0002 | <0.0002 | | | <0.0002 |
| 8/4/2022 | | | | <0.0002 | <0.0002 | |
| 1/26/2023 | | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 1/27/2023 | <0.0002 | | | | | |
| 8/10/2023 | <0.0002 | <0.0002 | | | 0.00013 (J) | 0.00017 (J) |
| 8/11/2023 | | | | <0.0002 | | |
| 8/12/2023 | | | <0.0002 | | | |
| Mean | 0.0001906 | 0.0001906 | 0.0001806 | 0.00019 | 0.00019 | 0.0001957 |
| Std. Dev. | 3.75E-05 | 3.75E-05 | 5.297E-05 | 4E-05 | 2.646E-05 | 1.134E-05 |
| Upper Lim. | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0002 |
| Lower Lim. | 5E-05 | 5E-05 | 5E-05 | 4E-05 | 0.00013 | 0.00017 |

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|------------|------------|------------|---------|--------|--------|
| 5/20/2016 | | | | | 0.028 | 0.446 |
| 5/23/2016 | <0.01 | 0.0164 | 0.0413 (J) | 0.027 | | |
| 7/12/2016 | 0.0013 (J) | 0.0251 | 0.0484 | 0.0316 | 0.0273 | 0.455 |
| 9/1/2016 | <0.01 | 0.0259 | 0.0474 | 0.0336 | 0.0274 | 0.481 |
| 10/20/2016 | | | | | 0.036 | 0.472 |
| 10/24/2016 | <0.01 | 0.0293 | 0.047 | 0.0352 | | |
| 12/6/2016 | | | | | 0.0365 | 0.52 |
| 12/7/2016 | <0.01 | 0.0209 | 0.0432 | 0.0383 | | |
| 1/25/2017 | | | | | 0.0317 | 0.478 |
| 1/26/2017 | <0.01 | 0.0277 | 0.0484 | 0.041 | | |
| 3/21/2017 | | | | | 0.0346 | 0.547 |
| 3/22/2017 | 0.0013 (J) | 0.011 | 0.0494 | 0.0426 | | |
| 5/23/2017 | | | | | 0.0336 | 0.482 |
| 5/24/2017 | 0.0014 (J) | 0.0373 | 0.047 | 0.04 | | |
| 4/3/2018 | | | | | 0.032 | 0.44 |
| 4/4/2018 | <0.01 | 0.013 | 0.052 | 0.027 | | |
| 6/5/2018 | <0.01 | 0.029 | | 0.027 | 0.036 | |
| 6/6/2018 | | | 0.054 | | | 0.49 |
| 10/2/2018 | <0.01 | | | | 0.039 | 0.47 |
| 10/3/2018 | | 0.02 | 0.054 | | | |
| 10/5/2018 | | | | 0.033 | | |
| 3/12/2019 | | | | | | 0.5 |
| 3/13/2019 | <0.01 | 0.012 | | 0.033 | 0.04 | |
| 3/14/2019 | | | 0.046 | | | |
| 4/2/2019 | | | | | 0.041 | |
| 4/3/2019 | 0.0021 (J) | 0.01 | 0.049 | | | 0.5 |
| 4/5/2019 | | | | 0.03 | | |
| 9/24/2019 | | | | | | 0.54 |
| 9/25/2019 | | | | | 0.047 | |
| 9/26/2019 | | | | 0.026 | | |
| 9/27/2019 | 0.0014 (J) | 0.016 | 0.052 | | | |
| 3/3/2020 | <0.01 | 0.011 | 0.045 | | | 0.44 |
| 3/4/2020 | | | | 0.03 | 0.045 | |
| 3/26/2020 | | | 0.045 | | | |
| 3/27/2020 | | | | | 0.044 | 0.42 |
| 3/30/2020 | | | | 0.029 | | |
| 3/31/2020 | | 0.0074 (J) | | | | |
| 4/1/2020 | <0.01 | | | | | |
| 6/16/2020 | | | | | | 0.45 |
| 6/17/2020 | | | | | 0.048 | |
| 9/16/2020 | 0.0014 (J) | | | | 0.046 | 0.43 |
| 9/18/2020 | | 0.032 | 0.046 | | | |
| 9/21/2020 | | | | 0.032 | | |
| 2/10/2021 | | | | | 0.051 | |
| 2/12/2021 | | 0.023 | 0.048 | | | |
| 2/15/2021 | <0.01 | | | | | |
| 2/16/2021 | | | | | | 0.46 |
| 2/22/2021 | | | | 0.036 | | |
| 3/12/2021 | 0.0007 (J) | | | | | |
| 3/15/2021 | | | | | 0.047 | 0.41 |
| 3/16/2021 | | 0.015 | 0.044 | | | |
| 3/17/2021 | | | | 0.035 | | |

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-7 | HGWC-8 |
|------------|-------------|----------|----------|----------|----------|--------|
| 8/16/2021 | | | | | 0.045 | |
| 8/17/2021 | 0.0012 (J) | | | | | |
| 8/18/2021 | | 0.038 | 0.045 | | | 0.48 |
| 8/19/2021 | | | | 0.032 | | |
| 2/9/2022 | <0.01 | 0.03 | 0.042 | | | |
| 2/10/2022 | | | | 0.033 | 0.045 | 0.34 |
| 8/3/2022 | 0.00079 (J) | 0.027 | 0.047 | 0.035 | 0.038 | 0.29 |
| 8/11/2022 | | | | | 0.044 | |
| 1/26/2023 | | 0.022 | 0.048 | 0.023 | | |
| 1/27/2023 | <0.01 | | | | 0.039 | |
| 2/1/2023 | | | | | | 0.29 |
| 8/10/2023 | 0.0014 (J) | 0.014 | 0.05 | | | |
| 8/12/2023 | | | | 0.016 | 0.033 | 0.34 |
| Mean | 0.006375 | 0.02138 | 0.04746 | 0.03193 | 0.03904 | 0.4468 |
| Std. Dev. | 0.004388 | 0.008837 | 0.003379 | 0.005941 | 0.006839 | 0.0683 |
| Upper Lim. | 0.01 | 0.02588 | 0.04919 | 0.03496 | 0.04238 | 0.4809 |
| Lower Lim. | 0.0014 | 0.01687 | 0.04574 | 0.0289 | 0.03571 | 0.4128 |

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-9 | MW-19 | MW-24D | MW-25D | MW-26D | MW-27D |
|------------|---------|---------|-------------|-------------|------------|------------|
| 5/23/2016 | 0.0187 | | | | | |
| 7/12/2016 | 0.0229 | | | | | |
| 9/1/2016 | 0.0239 | | | | | |
| 10/20/2016 | 0.477 | | | | | |
| 12/6/2016 | 0.0236 | | | | | |
| 1/26/2017 | 0.0234 | | | | | |
| 3/22/2017 | 0.0219 | | | | | |
| 5/23/2017 | 0.0242 | | | | | |
| 4/3/2018 | 0.025 | | | | | |
| 6/6/2018 | 0.027 | | | | | |
| 10/2/2018 | 0.028 | | | | | |
| 3/13/2019 | 0.028 | | <0.01 | | <0.01 | <0.01 |
| 3/14/2019 | | 0.057 | | 0.0022 (J) | | |
| 4/3/2019 | 0.03 | 0.04 | | <0.01 | 0.0083 (J) | |
| 4/4/2019 | | | | | | 0.0018 (J) |
| 4/8/2019 | | | 0.00027 (J) | | | |
| 9/26/2019 | | | <0.01 | | 0.017 | 0.0042 (J) |
| 9/27/2019 | 0.033 | 0.063 | | <0.01 | | |
| 11/25/2019 | | | | | 0.02 | |
| 3/3/2020 | | | | <0.01 | | |
| 3/4/2020 | 0.031 | 0.032 | <0.01 | | 0.0074 (J) | 0.0058 (J) |
| 3/26/2020 | | 0.033 | | <0.01 | | |
| 3/30/2020 | | | <0.01 | | | |
| 3/31/2020 | 0.031 | | | | 0.0093 (J) | |
| 4/2/2020 | | | | | | 0.003 (J) |
| 9/17/2020 | 0.03 | | | | 0.014 | |
| 9/18/2020 | | | | 0.00094 (J) | | 0.0018 (J) |
| 9/21/2020 | | 0.064 | 0.00099 (J) | | | |
| 2/12/2021 | | 0.046 | | <0.01 | | |
| 2/16/2021 | 0.035 | | 0.00096 (J) | | 0.022 | 0.0019 (J) |
| 3/12/2021 | | | | | | 0.0008 (J) |
| 3/16/2021 | 0.035 | | | <0.01 | | |
| 3/17/2021 | | 0.043 | 0.001 (J) | | 0.023 | |
| 8/17/2021 | 0.035 | | | | 0.024 | 0.0016 (J) |
| 8/18/2021 | | 0.032 | | | | |
| 8/19/2021 | | | 0.00087 (J) | <0.01 | | |
| 2/9/2022 | 0.034 | 0.011 | | <0.01 | 0.028 | |
| 2/10/2022 | | | 0.0008 (J) | | | 0.0017 (J) |
| 8/3/2022 | | | 0.00095 (J) | | | 0.002 (J) |
| 8/4/2022 | 0.033 | 0.039 | | <0.01 | 0.028 | |
| 1/26/2023 | 0.021 | 0.012 | 0.0012 (J) | <0.01 | 0.028 | |
| 1/27/2023 | | | | | | 0.0014 (J) |
| 8/10/2023 | | 0.033 | | <0.01 | | |
| 8/11/2023 | 0.03 | | | | 0.014 | |
| 8/12/2023 | | | 0.0019 (J) | | | 0.0019 (J) |
| Mean | 0.04673 | 0.03885 | 0.003765 | 0.008703 | 0.01771 | 0.002531 |
| Std. Dev. | 0.09178 | 0.01652 | 0.004341 | 0.003176 | 0.008152 | 0.001521 |
| Upper Lim. | 0.033 | 0.05113 | 0.01 | 0.01 | 0.02349 | 0.003468 |
| Lower Lim. | 0.0236 | 0.02656 | 0.0008 | 0.0022 | 0.01194 | 0.001448 |

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-28D | MW-29 | MW-6 | MW-7 |
|------------|------------|------------|------------|------------|
| 3/12/2019 | 0.013 | 0.0038 (J) | | |
| 3/13/2019 | | | 0.0021 (J) | <0.01 |
| 4/2/2019 | 0.028 | 0.0028 (J) | | |
| 4/3/2019 | | | 0.0021 (J) | <0.01 |
| 9/24/2019 | | 0.0021 (J) | | |
| 9/26/2019 | 0.017 | | 0.0026 (J) | 0.0033 (J) |
| 3/2/2020 | | 0.0025 (J) | | |
| 3/3/2020 | | | 0.0022 (J) | <0.01 |
| 3/4/2020 | 0.009 (J) | | | |
| 3/27/2020 | 0.0068 (J) | | 0.0026 (J) | |
| 3/30/2020 | | 0.0029 (J) | | <0.01 |
| 9/16/2020 | | 0.0021 (J) | | |
| 9/21/2020 | 0.018 | | 0.0025 (J) | 0.0015 (J) |
| 2/10/2021 | 0.02 | | | |
| 2/15/2021 | | 0.0029 (J) | | 0.0015 (J) |
| 2/16/2021 | | | 0.0025 (J) | |
| 3/15/2021 | 0.013 | 0.0031 (J) | | 0.0015 (J) |
| 3/16/2021 | | | 0.0023 (J) | |
| 8/16/2021 | | 0.0027 (J) | | |
| 8/17/2021 | | | 0.0027 (J) | 0.003 (J) |
| 8/18/2021 | 0.022 | | | |
| 2/8/2022 | | | | 0.0012 (J) |
| 2/9/2022 | | | 0.0026 (J) | |
| 2/10/2022 | 0.0031 (J) | 0.0036 (J) | | |
| 8/3/2022 | | 0.0032 (J) | 0.0028 (J) | |
| 8/4/2022 | 0.011 | | | 0.0014 (J) |
| 1/26/2023 | 0.0025 (J) | 0.0029 (J) | 0.0029 (J) | <0.01 |
| 8/10/2023 | | 0.003 (J) | 0.0026 (J) | 0.0022 (J) |
| 8/11/2023 | 0.0011 (J) | | | |
| Mean | 0.01265 | 0.002892 | 0.0025 | 0.005046 |
| Std. Dev. | 0.008179 | 0.0004941 | 0.000255 | 0.004122 |
| Upper Lim. | 0.01874 | 0.00326 | 0.00269 | 0.01 |
| Lower Lim. | 0.006572 | 0.002525 | 0.00231 | 0.0014 |

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-8 | HGWC-9 |
|------------|------------|------------|------------|-------------|------------|------------|
| 5/20/2016 | | | | | <0.005 | |
| 5/23/2016 | <0.005 | 0.0106 | <0.005 | <0.005 | | <0.005 |
| 7/12/2016 | <0.005 | 0.0057 (J) | <0.005 | <0.005 | <0.005 | <0.005 |
| 9/1/2016 | <0.005 | 0.0057 (J) | <0.005 | <0.005 | <0.005 | <0.005 |
| 10/20/2016 | | | | | <0.005 | <0.005 |
| 10/24/2016 | <0.005 | 0.0021 (J) | <0.005 | <0.005 | | |
| 12/6/2016 | | | | | 0.0024 (J) | 0.0037 (J) |
| 12/7/2016 | <0.005 | 0.0015 (J) | 0.0011 (J) | <0.005 | | |
| 1/25/2017 | | | | | <0.005 | |
| 1/26/2017 | 0.0041 (J) | 0.0062 (J) | <0.005 | <0.005 | | <0.005 |
| 3/21/2017 | | | | | <0.005 | |
| 3/22/2017 | <0.005 | 0.0263 | <0.005 | <0.005 | | <0.005 |
| 5/23/2017 | | | | | <0.005 | <0.005 |
| 5/24/2017 | <0.005 | 0.0038 (J) | <0.005 | <0.005 | | |
| 4/3/2018 | | | | | <0.005 | <0.005 |
| 4/4/2018 | <0.005 | 0.021 | <0.005 | <0.005 | | |
| 6/5/2018 | <0.005 | 0.0062 (J) | | <0.005 | | |
| 6/6/2018 | | | <0.005 | | <0.005 | <0.005 |
| 10/2/2018 | 0.0023 (J) | | | | <0.005 | <0.005 |
| 10/3/2018 | | 0.009 (J) | <0.005 | | | |
| 10/5/2018 | | | | <0.005 | | |
| 3/12/2019 | | | | | <0.005 | |
| 3/13/2019 | 0.0015 (J) | 0.023 | | <0.005 | | <0.005 |
| 3/14/2019 | | | <0.005 | | | |
| 4/3/2019 | <0.005 | 0.016 | <0.005 | | <0.005 | <0.005 |
| 4/5/2019 | | | | 0.00018 (J) | | |
| 9/24/2019 | | | | | <0.005 | |
| 9/26/2019 | | | | <0.005 | | |
| 9/27/2019 | <0.005 | 0.013 | <0.005 | | | <0.005 |
| 3/3/2020 | <0.005 | 0.016 | <0.005 | | <0.005 | |
| 3/4/2020 | | | | <0.005 | | <0.005 |
| 3/26/2020 | | | <0.005 | | | |
| 3/27/2020 | | | | | <0.005 | |
| 3/30/2020 | | | | <0.005 | | |
| 3/31/2020 | | 0.019 | | | | <0.005 |
| 4/1/2020 | 0.002 (J) | | | | | |
| 9/16/2020 | <0.005 | | | | <0.005 | |
| 9/17/2020 | | | | | | <0.005 |
| 9/18/2020 | | 0.0042 (J) | <0.005 | | | |
| 9/21/2020 | | | | 0.0016 (J) | | |
| 2/12/2021 | | 0.0079 (J) | <0.005 | | | |
| 2/15/2021 | 0.0028 (J) | | | | | |
| 2/16/2021 | | | | | <0.005 | <0.005 |
| 2/22/2021 | | | | <0.005 | | |
| 3/12/2021 | <0.005 | | | | | |
| 3/15/2021 | | | | | <0.005 | |
| 3/16/2021 | | 0.015 | <0.005 | | | <0.005 |
| 3/17/2021 | | | | <0.005 | | |
| 8/17/2021 | <0.005 | | | | | <0.005 |
| 8/18/2021 | | 0.0033 (J) | <0.005 | | <0.005 | |
| 8/19/2021 | | | | <0.005 | | |
| 2/9/2022 | 0.0031 (J) | 0.0035 (J) | <0.005 | | | <0.005 |

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-10 | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-8 | HGWC-9 |
|------------|------------|----------|-----------|----------|-----------|-----------|
| 2/10/2022 | | | | <0.005 | <0.005 | |
| 8/3/2022 | 0.0017 (J) | 0.0057 | <0.005 | <0.005 | <0.005 | |
| 8/4/2022 | | | | | | <0.005 |
| 1/26/2023 | | 0.01 | <0.005 | <0.005 | | <0.005 |
| 1/27/2023 | 0.0035 (J) | | | | | |
| 2/1/2023 | | | | | <0.005 | |
| 8/10/2023 | <0.005 | 0.0089 | <0.005 | | | |
| 8/11/2023 | | | | | | <0.005 |
| 8/12/2023 | | | | <0.005 | <0.005 | |
| Mean | 0.004208 | 0.01015 | 0.004837 | 0.004657 | 0.004892 | 0.004946 |
| Std. Dev. | 0.001249 | 0.007001 | 0.0007961 | 0.001179 | 0.0005307 | 0.0002654 |
| Upper Lim. | 0.005 | 0.01372 | 0.005 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.0031 | 0.006577 | 0.0011 | 0.0016 | 0.0024 | 0.0037 |

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-19 | MW-27D | MW-5 | MW-7 |
|------------|------------|-------------|------------|------------|
| 3/13/2019 | | <0.005 | 0.0033 (J) | 0.0016 (J) |
| 3/14/2019 | <0.005 | | | |
| 4/3/2019 | 0.007 (J) | | 0.0027 (J) | <0.005 |
| 4/4/2019 | | 0.00012 (J) | | |
| 9/25/2019 | | | 0.0021 (J) | |
| 9/26/2019 | | <0.005 | | 0.0014 (J) |
| 9/27/2019 | 0.0013 (J) | | | |
| 3/2/2020 | | | 0.0041 (J) | |
| 3/3/2020 | | | | <0.005 |
| 3/4/2020 | 0.0044 (J) | <0.005 | | |
| 3/26/2020 | 0.0053 (J) | | 0.0039 (J) | |
| 3/30/2020 | | | | 0.0014 (J) |
| 4/2/2020 | | <0.005 | | |
| 9/17/2020 | | | 0.0028 (J) | |
| 9/18/2020 | | <0.005 | | |
| 9/21/2020 | 0.0033 (J) | | | 0.0026 (J) |
| 2/12/2021 | 0.0021 (J) | | | |
| 2/15/2021 | | | | <0.005 |
| 2/16/2021 | | <0.005 | 0.0035 (J) | |
| 3/12/2021 | | <0.005 | | |
| 3/15/2021 | | | | 0.0021 (J) |
| 3/16/2021 | | | 0.0026 (J) | |
| 3/17/2021 | <0.005 | | | |
| 8/17/2021 | | <0.005 | 0.0017 (J) | <0.005 |
| 8/18/2021 | 0.0026 (J) | | | |
| 2/8/2022 | | | | 0.0015 (J) |
| 2/9/2022 | 0.0036 (J) | | 0.0027 (J) | |
| 2/10/2022 | | <0.005 | | |
| 8/3/2022 | | <0.005 | 0.0032 (J) | |
| 8/4/2022 | 0.0022 (J) | | | <0.005 |
| 1/26/2023 | 0.0056 | | 0.0045 (J) | <0.005 |
| 1/27/2023 | | <0.005 | | |
| 8/10/2023 | 0.0038 (J) | | 0.002 (J) | <0.005 |
| 8/12/2023 | | <0.005 | | |
| Mean | 0.003938 | 0.004625 | 0.003008 | 0.003508 |
| Std. Dev. | 0.001637 | 0.001353 | 0.0008431 | 0.001707 |
| Upper Lim. | 0.004794 | 0.005 | 0.003635 | 0.005 |
| Lower Lim. | 0.002441 | 0.00012 | 0.002381 | 0.0015 |

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-8 | MW-19 | MW-28D |
|------------|-----------|-------------|--------------|-------------|-------------|-------------|
| 5/20/2016 | | | | <0.001 | | |
| 5/23/2016 | <0.001 | <0.001 | 0.000378 (J) | | | |
| 7/12/2016 | 8E-05 (J) | 0.0002 (J) | 0.0004 (J) | 7E-05 (J) | | |
| 9/1/2016 | <0.001 | <0.001 | 0.0004 (J) | <0.001 | | |
| 10/20/2016 | | | | <0.001 | | |
| 10/24/2016 | <0.001 | <0.001 | 0.0005 (J) | | | |
| 12/6/2016 | | | | <0.001 | | |
| 12/7/2016 | <0.001 | <0.001 | 0.0004 (J) | | | |
| 1/25/2017 | | | | <0.001 | | |
| 1/26/2017 | <0.001 | <0.001 | 0.0004 (J) | | | |
| 3/21/2017 | | | | 9E-05 (J) | | |
| 3/22/2017 | <0.001 | 0.0001 (J) | 0.0004 (J) | | | |
| 5/23/2017 | | | | 8E-05 (J) | | |
| 5/24/2017 | 8E-05 (J) | 9E-05 (J) | 0.0003 (J) | | | |
| 4/3/2018 | | | | <0.001 | | |
| 4/4/2018 | <0.001 | <0.001 | 0.00032 (J) | | | |
| 6/5/2018 | <0.001 | | 0.00035 (J) | | | |
| 6/6/2018 | | <0.001 | | <0.001 | | |
| 10/2/2018 | | | | <0.001 | | |
| 10/3/2018 | <0.001 | <0.001 | | | | |
| 10/5/2018 | | | 0.00025 (J) | | | |
| 3/12/2019 | | | | <0.001 | | <0.001 |
| 3/13/2019 | <0.001 | | 0.00039 (J) | | | |
| 3/14/2019 | | <0.001 | | | <0.001 | |
| 4/2/2019 | | | | | | <0.001 |
| 4/3/2019 | <0.001 | <0.001 | | <0.001 | <0.001 | |
| 4/5/2019 | | | 0.00034 (J) | | | |
| 9/24/2019 | | | | 0.00011 (J) | | |
| 9/26/2019 | | | 0.00039 (J) | | | <0.001 |
| 9/27/2019 | <0.001 | 8.8E-05 (J) | | | 0.00027 (J) | |
| 3/3/2020 | <0.001 | 6.6E-05 (J) | | 6.1E-05 (J) | | |
| 3/4/2020 | | | 0.00056 (J) | | 0.00026 (J) | 9.2E-05 (J) |
| 3/26/2020 | | 8E-05 (J) | | | 0.00026 (J) | |
| 3/27/2020 | | | | 7.7E-05 (J) | | <0.001 |
| 3/30/2020 | | | 0.00048 (J) | | | |
| 3/31/2020 | <0.001 | | | | | |
| 9/16/2020 | | | | <0.001 | | |
| 9/18/2020 | <0.001 | <0.001 | | | | |
| 9/21/2020 | | | 0.00036 (J) | | 0.0003 (J) | <0.001 |
| 2/10/2021 | | | | | | <0.001 |
| 2/12/2021 | <0.001 | <0.001 | | | 0.00019 (J) | |
| 2/16/2021 | | | | <0.001 | | |
| 2/22/2021 | | | 0.0003 (J) | | | |
| 3/15/2021 | | | | <0.001 | | <0.001 |
| 3/16/2021 | <0.001 | <0.001 | | | | |
| 3/17/2021 | | | 0.00037 (J) | | 0.00026 (J) | |
| 8/18/2021 | <0.001 | <0.001 | | <0.001 | 0.00023 (J) | <0.001 |
| 8/19/2021 | | | 0.0002 (J) | | | |
| 2/9/2022 | <0.001 | <0.001 | | | <0.001 | |
| 2/10/2022 | | | <0.001 | <0.001 | | <0.001 |
| 8/3/2022 | <0.001 | <0.001 | <0.001 | 0.00018 (J) | | |
| 8/4/2022 | | | | | 0.00026 (J) | <0.001 |

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | HGWC-11 | HGWC-12 | HGWC-13 | HGWC-8 | MW-19 | MW-28D |
|------------|-----------|----------|-------------|-----------|-----------|-----------|
| 1/26/2023 | <0.001 | <0.001 | 0.00031 (J) | | <0.001 | <0.001 |
| 2/1/2023 | | | | <0.001 | | |
| 8/10/2023 | <0.001 | <0.001 | | | <0.001 | |
| 8/11/2023 | | | | | | <0.001 |
| 8/12/2023 | | | 0.00028 (J) | <0.001 | | |
| Mean | 0.0009233 | 0.000776 | 0.0003783 | 0.0007362 | 0.0005408 | 0.0009302 |
| Std. Dev. | 0.0002597 | 0.000397 | 8.631E-05 | 0.0004205 | 0.0003787 | 0.0002518 |
| Upper Lim. | 0.001 | 0.001 | 0.0004223 | 0.001 | 0.001 | 0.001 |
| Lower Lim. | 8E-05 | 0.0002 | 0.0003342 | 0.00011 | 0.00023 | 9.2E-05 |

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/25/2023 2:35 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

| | MW-29 | MW-6 |
|------------|-------------|-------------|
| 3/12/2019 | <0.001 | |
| 3/13/2019 | | <0.001 |
| 4/2/2019 | <0.001 | |
| 4/3/2019 | | <0.001 |
| 9/24/2019 | 6.4E-05 (J) | |
| 9/26/2019 | | <0.001 |
| 3/2/2020 | <0.001 | |
| 3/3/2020 | | 8.2E-05 (J) |
| 3/27/2020 | | <0.001 |
| 3/30/2020 | <0.001 | |
| 9/16/2020 | <0.001 | |
| 9/21/2020 | | <0.001 |
| 2/15/2021 | <0.001 | |
| 2/16/2021 | | <0.001 |
| 3/15/2021 | <0.001 | |
| 3/16/2021 | | <0.001 |
| 8/16/2021 | <0.001 | |
| 8/17/2021 | | <0.001 |
| 2/9/2022 | | <0.001 |
| 2/10/2022 | <0.001 | |
| 8/3/2022 | <0.001 | <0.001 |
| 1/26/2023 | <0.001 | <0.001 |
| 8/10/2023 | <0.001 | <0.001 |
| Mean | 0.000928 | 0.0009294 |
| Std. Dev. | 0.0002596 | 0.0002546 |
| Upper Lim. | 0.001 | 0.001 |
| Lower Lim. | 6.4E-05 | 8.2E-05 |

FIGURE I.

Appendix IV Trend Tests - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/25/2023, 2:37 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------|---------------|------------|-------|----------|------|----|------|-----------|-------|-------|--------|
| Arsenic (mg/L) | HGWC-13 | 0.01769 | 108 | 81 | Yes | 24 | 0 | n/a | n/a | 0.05 | NP |
| Molybdenum (mg/L) | HGWA-43D (bg) | -0.0009202 | -30 | -27 | Yes | 11 | 0 | n/a | n/a | 0.05 | NP |
| Molybdenum (mg/L) | HGWC-8 | -0.01769 | -118 | -85 | Yes | 25 | 0 | n/a | n/a | 0.05 | NP |

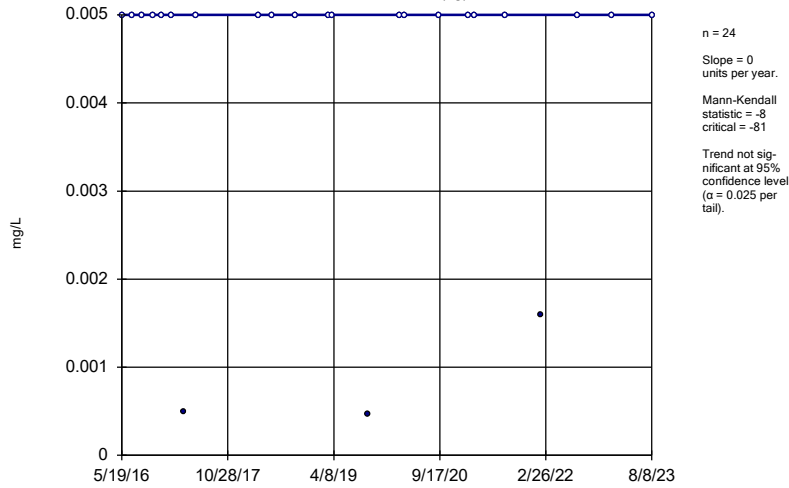
Appendix IV Trend Tests - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/25/2023, 2:37 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> |
|--------------------------|----------------------|-------------------|--------------|-----------------|-------------|-----------|-------------|------------------|--------------|--------------|---------------|
| Arsenic (mg/L) | HGWA-1 (bg) | 0 | -8 | -81 | No | 24 | 87.5 | n/a | n/a | 0.05 | NP |
| Arsenic (mg/L) | HGWA-2 (bg) | 0 | 43 | 81 | No | 24 | 62.5 | n/a | n/a | 0.05 | NP |
| Arsenic (mg/L) | HGWA-3 (bg) | 0 | 31 | 81 | No | 24 | 62.5 | n/a | n/a | 0.05 | NP |
| Arsenic (mg/L) | HGWA-43D (bg) | 0.0004771 | 11 | 27 | No | 11 | 45.45 | n/a | n/a | 0.05 | NP |
| Arsenic (mg/L) | HGWA-44D (bg) | 0 | -7 | -27 | No | 11 | 72.73 | n/a | n/a | 0.05 | NP |
| Arsenic (mg/L) | HGWC-13 | 0.01769 | 108 | 81 | Yes | 24 | 0 | n/a | n/a | 0.05 | NP |
| Molybdenum (mg/L) | HGWA-1 (bg) | 0 | 0 | 85 | No | 25 | 100 | n/a | n/a | 0.05 | NP |
| Molybdenum (mg/L) | HGWA-2 (bg) | 0 | 0 | 81 | No | 24 | 100 | n/a | n/a | 0.05 | NP |
| Molybdenum (mg/L) | HGWA-3 (bg) | 0 | 0 | 85 | No | 25 | 100 | n/a | n/a | 0.05 | NP |
| Molybdenum (mg/L) | HGWA-43D (bg) | -0.0009202 | -30 | -27 | Yes | 11 | 0 | n/a | n/a | 0.05 | NP |
| Molybdenum (mg/L) | HGWA-44D (bg) | 0.0001159 | 10 | 27 | No | 11 | 0 | n/a | n/a | 0.05 | NP |
| Molybdenum (mg/L) | HGWC-8 | -0.01769 | -118 | -85 | Yes | 25 | 0 | n/a | n/a | 0.05 | NP |

Sen's Slope Estimator

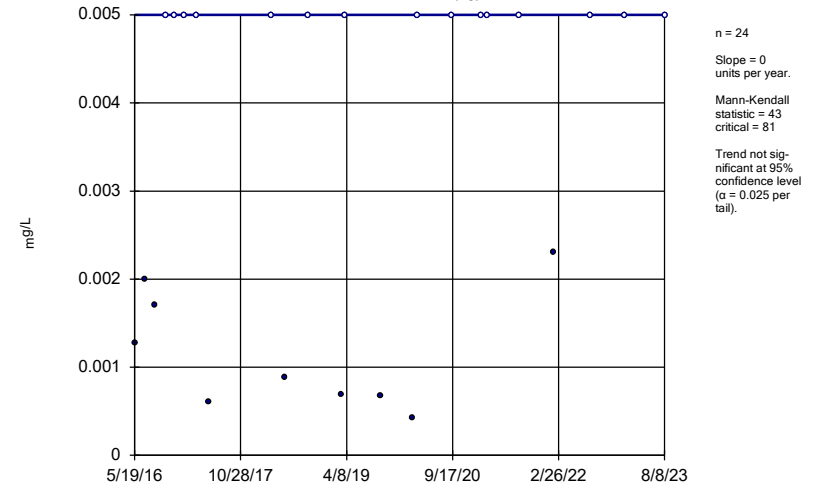
HGWA-1 (bg)



Constituent: Arsenic Analysis Run 10/25/2023 2:37 PM View: Appendix IV - CI Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

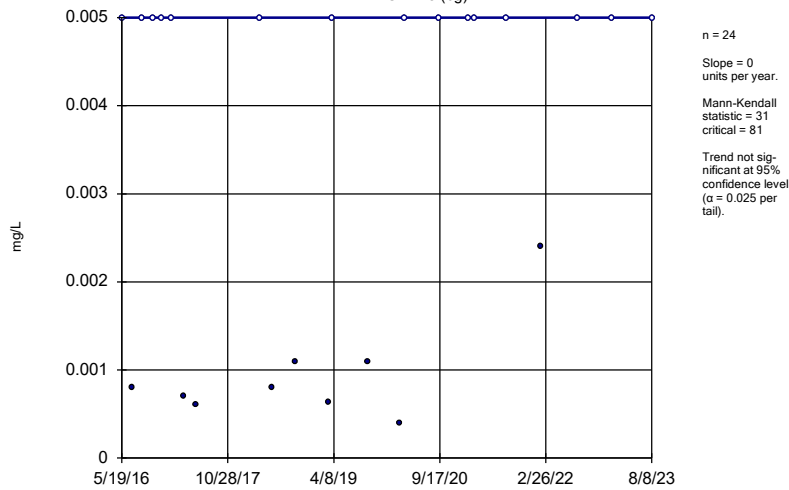
HGWA-2 (bg)



Constituent: Arsenic Analysis Run 10/25/2023 2:37 PM View: Appendix IV - CI Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

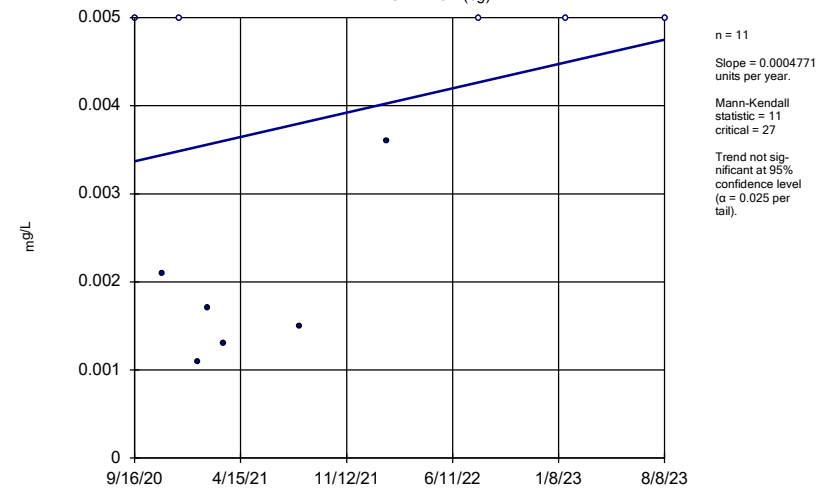
HGWA-3 (bg)



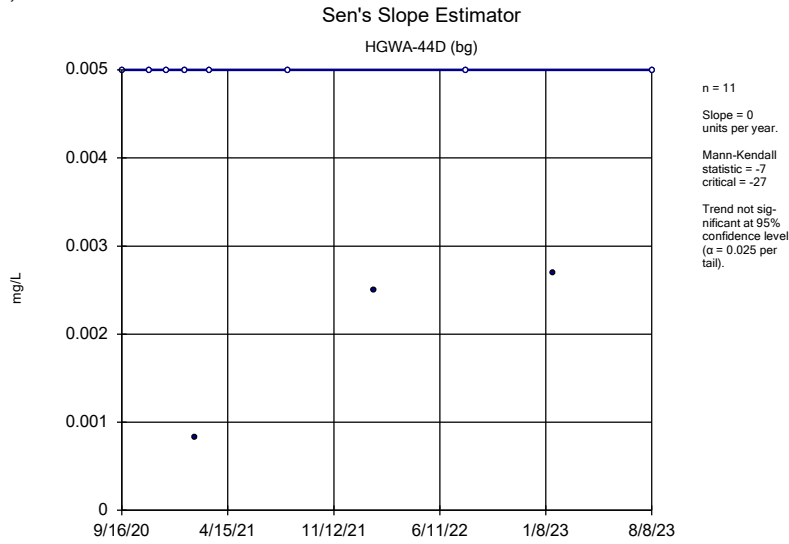
Constituent: Arsenic Analysis Run 10/25/2023 2:37 PM View: Appendix IV - CI Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

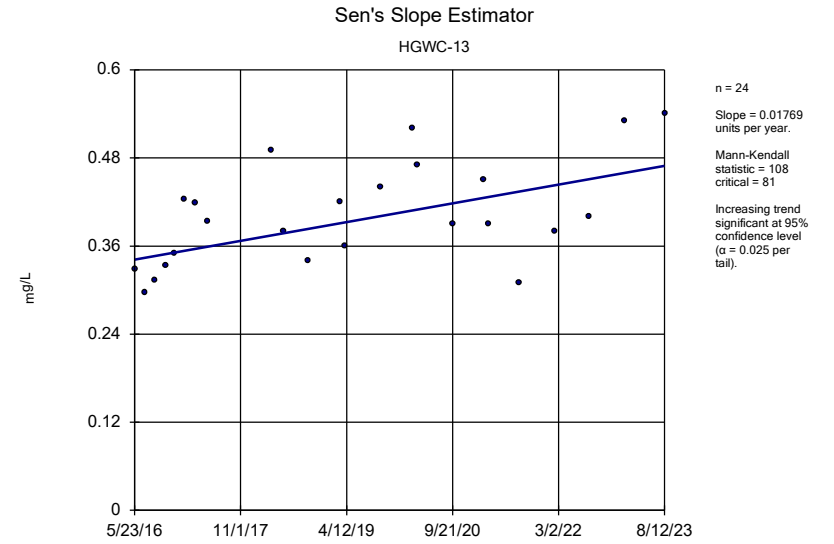
HGWA-43D (bg)



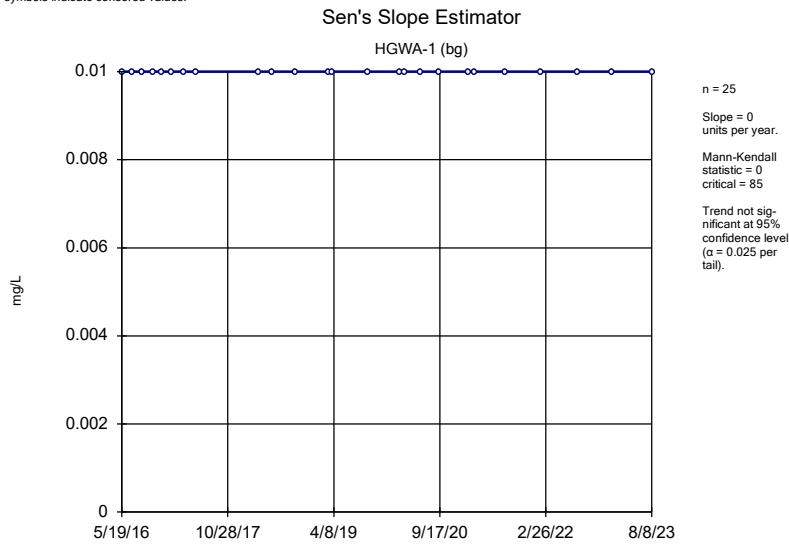
Constituent: Arsenic Analysis Run 10/25/2023 2:37 PM View: Appendix IV - CI Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1



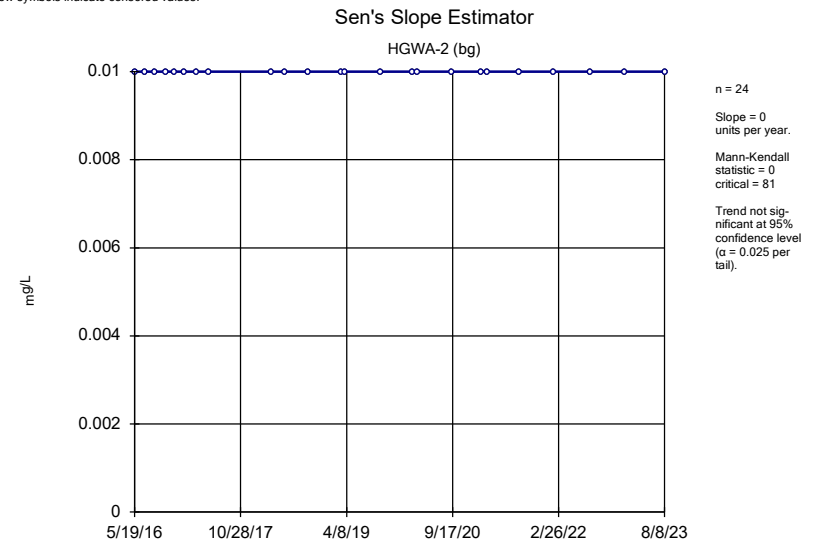
Constituent: Arsenic Analysis Run 10/25/2023 2:37 PM View: Appendix IV - CI Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1



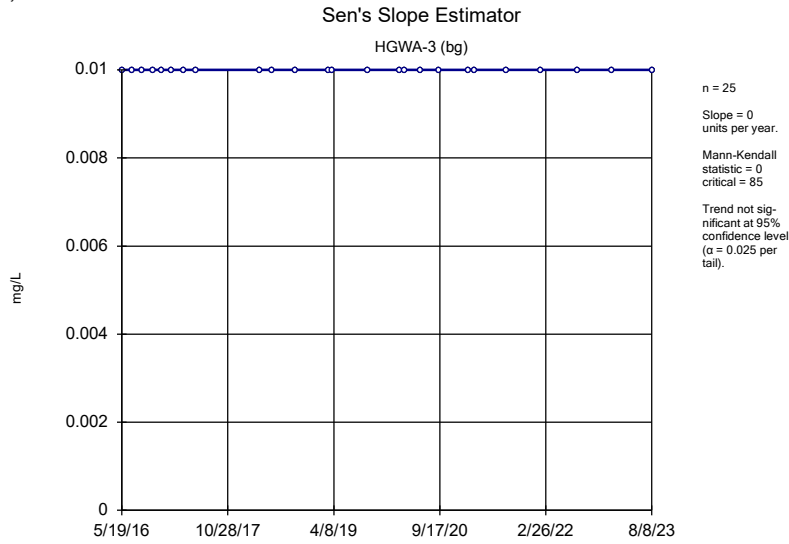
Constituent: Arsenic Analysis Run 10/25/2023 2:37 PM View: Appendix IV - CI Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1



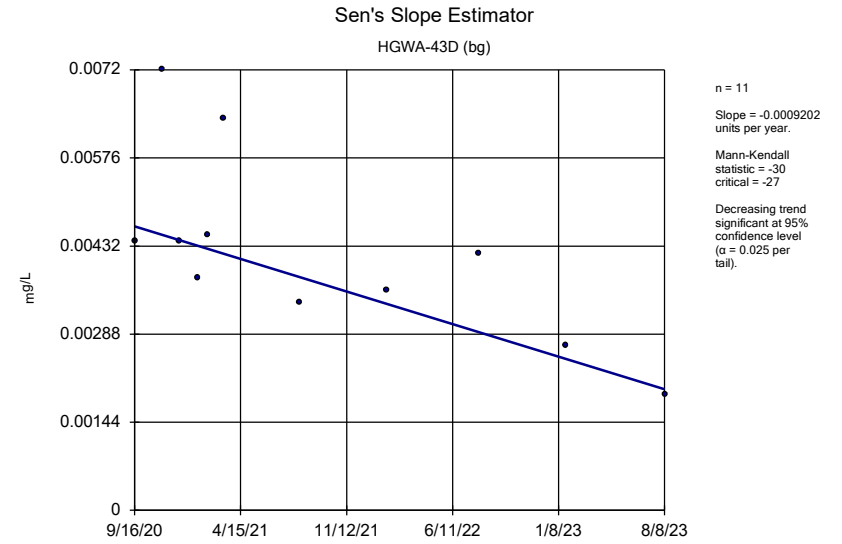
Constituent: Molybdenum Analysis Run 10/25/2023 2:37 PM View: Appendix IV - CI Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1



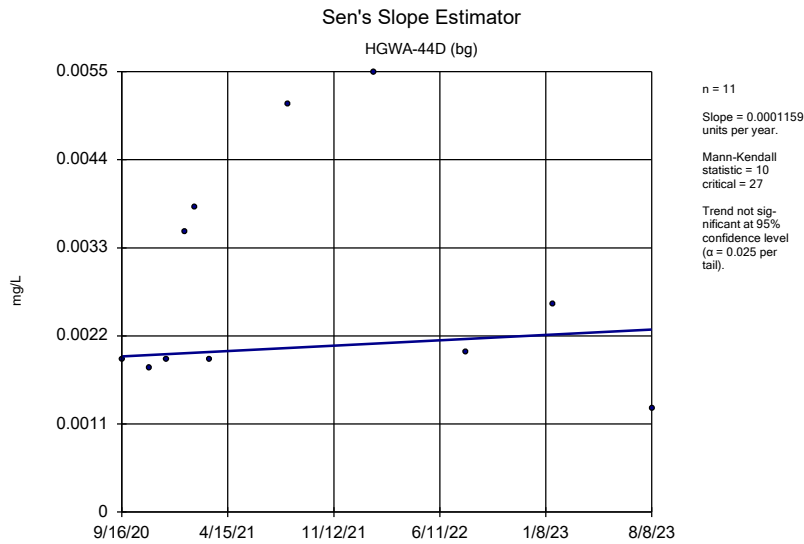
Constituent: Molybdenum Analysis Run 10/25/2023 2:37 PM View: Appendix IV - CI Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1



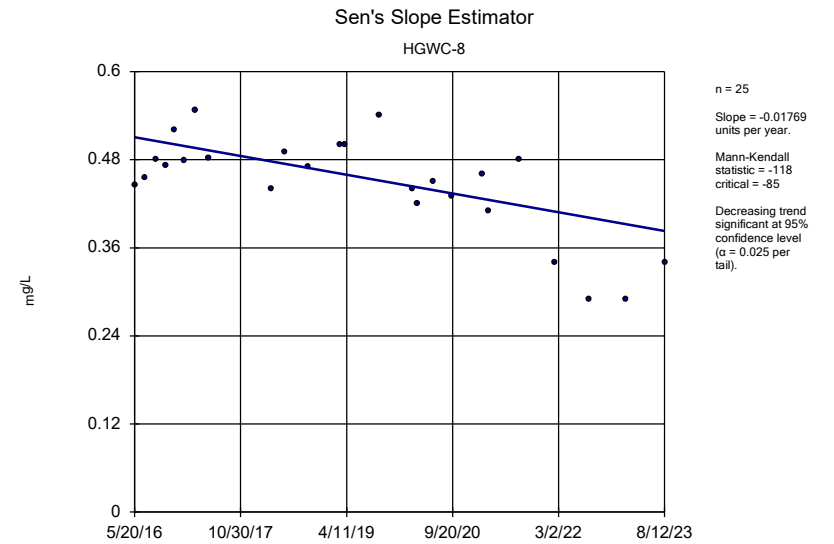
Constituent: Molybdenum Analysis Run 10/25/2023 2:37 PM View: Appendix IV - CI Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Molybdenum Analysis Run 10/25/2023 2:37 PM View: Appendix IV - CI Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Molybdenum Analysis Run 10/25/2023 2:37 PM View: Appendix IV - CI Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Molybdenum Analysis Run 10/25/2023 2:37 PM View: Appendix IV - CI Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

FIGURE J.

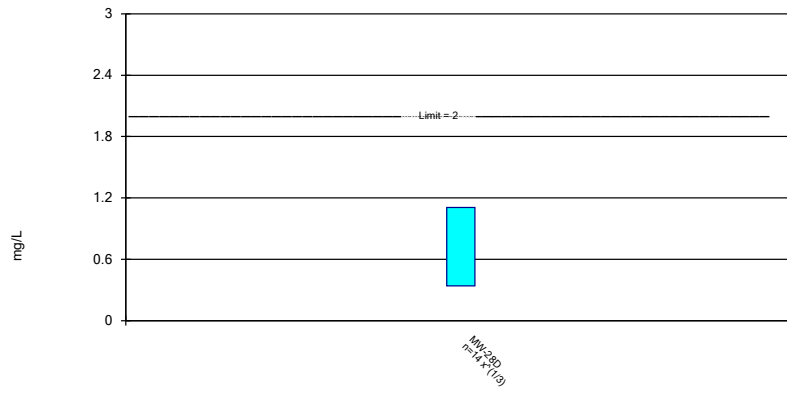
Confidence Intervals Summary Table - Resample Results

Plant Hammond Data: Hammond AP-1 Printed 11/22/2023, 5:11 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Compliance</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|-------------|-------------------|-------------------|-------------------|-------------|----------|-------------|----------------|------------------|--------------|---------------|
| Barium (mg/L) | MW-28D | 1.108 | 0.3401 | 2 | No | 14 | 0 | None | x^(1/3) | 0.01 | Param. |

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 11/22/2023 5:09 PM View: Appendix IV - Resample
Plant Hammond Data: Hammond AP-1

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/22/2023 5:11 PM View: Appendix IV - Resample
Plant Hammond Data: Hammond AP-1

| | MW-28D |
|------------|---------|
| 3/12/2019 | 0.82 |
| 4/2/2019 | 0.37 |
| 9/26/2019 | 0.15 |
| 3/4/2020 | 0.77 |
| 3/27/2020 | 0.64 |
| 9/21/2020 | 0.18 |
| 2/10/2021 | 0.26 |
| 3/15/2021 | 0.45 |
| 8/18/2021 | 0.53 |
| 2/10/2022 | 0.76 |
| 8/4/2022 | 0.7 |
| 1/26/2023 | 0.8 |
| 8/11/2023 | 2.2 |
| 10/31/2023 | 2.5 (R) |
| Mean | 0.795 |
| Std. Dev. | 0.6998 |
| Upper Lim. | 1.108 |
| Lower Lim. | 0.3401 |

APPENDIX E

Pilot Study Documentation

Pilot Study Post-Injection Event Report



Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

PILOT STUDY POST-INJECTION EVENT REPORT

**PILOT TEST NO. UPT000062
PLANT HAMMOND ASH POND 1 (AP-1)**

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW6581G

November 2023

CERTIFICATION STATEMENT

I hereby certify that this *Pilot Study Post-Injection Event Report* was prepared by, or under the direct supervision of, a Qualified Groundwater Scientist, in accordance with the Georgia Environmental Protection Division Rules of Solid Waste Management. According to 391-3-4-.01, a Qualified Groundwater Scientist is “a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action.” The design presented within this workplan was developed in compliance with the Georgia Rules of Solid Waste Management, Chapter 391-3-4.10.



Whitney B. Law
Georgia Professional Engineer No. 36641

November 7, 2023
Date

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LIST OF ACRONYMS

| | |
|-------------------|---|
| ACM | Assessment of Corrective Measures |
| AP-1 | Ash Pond 1 |
| bgs | below ground surface |
| Cascade | Cascade Drilling, Inc. |
| CCR | coal combustion residual |
| CFR | Code of Federal Regulations |
| Co | cobalt |
| DO | dissolved oxygen |
| DPT | direct push technology |
| FeSO ₄ | ferrous sulfate |
| ft | feet |
| gal | gallons |
| gpd | gallons per day |
| gpm | gallons per minute |
| GA EPD | Georgia Environmental Protection Division |
| Georgia Power | Georgia Power Company |
| Geosyntec | Geosyntec Consultants, Inc. |
| GWPS | Groundwater Protection Standard |
| IBC | intermediate bulk container |
| lb | pound |
| MNA | monitored natural attenuation |
| mg/L | milligrams per liter |
| MgO | magnesium oxide |
| ORP | oxidation-reduction potential |
| psi | pounds per square inch |
| PVC | polyvinyl chloride |
| ROI | radius of influence |
| SSL | statistically significant level |
| UIC | Underground Injection Control |
| US EPA | United States Environmental Protection Agency |

1. BACKGROUND AND OBJECTIVES

On behalf of Georgia Power Company (Georgia Power), this *Pilot Study Post-Injection Event Report* (Report) was developed by Geosyntec Consultants, Inc. (Geosyntec) at the request of the Georgia Environmental Protection Division (GA EPD) Wastewater Regulatory Program in their pilot test notification approval, dated August 24, 2023. In-situ geochemical injections, coupled with monitored natural attenuation (MNA), have been proposed as corrective measures to address concentrations of molybdenum (Mo) and arsenic (As) reported at statistically significant levels (SSLs) above Groundwater Protection Standards (GWPS) in detection monitoring wells HGWC-8 and HGWC-13, respectively, at Georgia Power Plant Hammond Ash Pond 1 (AP-1; Site).

Design of in-situ geochemical injection corrective measures includes multiple assessment and design components, including pilot studies to evaluate injection delivery and the performance of injectates prior to implementing a full scale remedy. These pilot tests will collect data that will be used to evaluate:

1. Radius of influence (ROI) of the injected amendment to evaluate future injection point spacing requirements;
2. Sustainable injection pressure and flowrate; and
3. Injectate dosing and efficacy of treating As and Mo in groundwater to below the GWPS.

This Report summarizes the well installation activities completed in June 2023, baseline sampling activities completed in July and August 2023, and injection activities completed in September and October 2023. These field activities were conducted in accordance with the *HGWC-8 Pilot Study Workplan* and the *HGWC-13 Pilot Study Workplan* (collectively referred to herein as “Workplans”) (Geosyntec, 2023b, 2023c) associated with the Underground Injection Control (UIC) Pilot Test Notification Form. This Report has been prepared in accordance with requirements stipulated in the August 24, 2023 UIC Program pilot test notification approval letter.

1.1 Site Background

Plant Hammond, shown on **Figure 1**, is located in Floyd County, approximately 10 miles west of Rome, Georgia. Plant Hammond was a four-unit, coal-fired electric generating facility and was retired on July 29, 2019. The physical address of the plant is 5963 Alabama Highway, Rome, Georgia, 30165.

AP-1 is one of four coal combustion residual (CCR) ponds utilized over the course of power generation at Plant Hammond. AP-1 is a 35-acre surface impoundment located near the center of Plant Hammond and was used primarily as a dewatering facility for fly ash and bottom ash. AP-1 closure activities, consisting of closure by removal, have been initiated under GA EPD's approved closure permit No. 057-023D(CCR).

As documented in the *Draft Remedy Selection Report* (Geosyntec, 2022), CCR groundwater monitoring-related activities are performed at AP-1 in accordance with the United States Environmental Protection Agency (US EPA) CCR Rule (federal CCR Rule) (40 Code of Federal Regulations [CFR] 257 Subpart D). The locations of AP-1 detection monitoring wells, assessment monitoring wells, and piezometers are shown on **Figure 2**.

A Mo SSL was identified at detection well HGWC-8 along the eastern boundary of AP-1 and an As SSL was identified at detection monitoring well HGWC-13 along the southwest boundary of AP-1 (**Figure 2**) as part of the assessment monitoring program. These SSLs have been horizontally and vertically delineated to levels below the GWPS (Geosyntec, 2022).

As part of implementing the Assessment of Corrective Measures (ACM) process at AP-1, a high resolution site characterization was conducted in August 2022 for HGWC-8 and February 2023 for HGWC-13, to characterize and refine proposed treatment areas. The results are summarized in the Workplans (GEOS Submittal ID: 778366). The information collected informed the pilot study summarized in this Report.

2. WELL INSTALLATION

Four performance monitoring wells (PT-07 through PT-10) were installed in accordance with the Workplans in June 2023. The locations are shown on **Figure 2** and the well construction details are provided in **Table 1**. Actual screen interval elevations varied by less than 0.7 feet (ft) from the originally proposed depths based on field topographic variations and lithology. A copy of the *Well Design, Installation, and Development Report – Addendum No. 5* detailing the design, installation, and development of these wells is included in **Appendix A**.

Well drilling, installation, and surface completion activities were performed by Cascade Drilling, Inc. (Cascade). The boreholes were advanced using rotosonic drilling techniques with continuous core collection. A Terra Sonic compact crawler size track mounted rig with a 6-inch sonic drill rod was used to install the wells.

3. BASELINE CHARACTERIZATION

Two rounds of groundwater samples were collected from the performance monitoring wells (PT-07 through PT-10) in July and August 2023 to establish pre-injection baseline conditions.

Groundwater samples and water quality field parameters (i.e., pH, conductivity, dissolved oxygen [DO], temperature, and oxidation-reduction potential [ORP]) were collected using low-flow sampling procedures in accordance with the current AP-1 *Groundwater Monitoring Plan* (Geosyntec, 2023a) and the Workplans. Groundwater samples were placed in ice-packed coolers and submitted to Pace Analytical Services, LLC (Pace Analytical) in Peachtree Corners, Georgia, following chain-of-custody protocol. Samples were analyzed for Appendix III and IV constituents, and select geochemical parameters and metals in accordance with the Workplans to support evaluation of injectate efficacy. The results for the July and August 2023 sampling events are presented in **Table 2**. The analytical laboratory results and field sampling and equipment calibration forms are provided in **Appendix B**.

4. INJECTION ACTIVITIES

Injection activities were performed over two shifts between September 25 and October 17, 2023, by Cascade with technical supervision conducted by Geosyntec. A staging and mixing area was established prior to injection. Three-hundred-gallon (gal) cone bottom mixing and storage tanks were set up within a secondary containment berm and spill kits were maintained on-site to manage any spills or daylighting. Injectate consisted of either ferrous sulfate (FeSO_4) heptahydrate or magnesium oxide (MgO) obtained from TerraSystems, Inc. mixed with potable water obtained from an on-site fire hydrant that was designated in the Workplans.

Pre-determined quantities of FeSO_4 or MgO were measured on a digital scale and combined with potable water in mix tanks. The injectate was mixed using a recirculation pump prior to injection, in accordance with the Workplan, in the 300-gal mix tanks. A pump was used to deliver injectate through steel rods to a 2-ft long steel well screen advanced using direct push technology (DPT) drilling. Injections were initiated at the top of injectable treatment zone and proceeded downward (i.e., top-down). In some injection point borings the DPT injection system was pressurized with potable water while advancing the tooling to prevent clogging of the injection screen with aquifer solids. After reaching the target treatment interval, potable water pressurization was stopped and the injection of injectate was initiated. Injection point boreholes were abandoned to the ground surface with bentonite chips upon completion of the injection boring in accordance with the Workplans.

Injection pressures, flowrates, and water levels in nearby performance monitoring wells were measured throughout injection activities, and the daily maximum injection volume across both pilot study areas was below the value included in the Pilot Test Notification Form (3,500 gal per day [gpd]). A summary of daily injected volumes is included in **Table 3**. Field forms are included in **Appendix C**.

4.1 HGWC-8 Injection Area (East Area)

Injections occurred at four injection locations surrounding PT-09 (located south of HGWC-8 and east of AP-1, as shown on **Figure 2**), starting with IP-05. An initial injection consisting of potable water (i.e., without FeSO_4 or MgO) was conducted to verify that injection instrumentation was functioning, no leaks in the system were present, and to assess the aquifer response to pressurized injection. Approximately 500 gal of potable water was injected in each 2-ft interval from 19 to 27 ft below ground surface (bgs).

Following completion of the potable water injections, 850 gal of 1.11×10^{-4} pounds per gallon (lb/gal) FeSO_4 (or 13 milligrams per liter (mg/L) FeSO_4 heptahydrate) was injected in 2-ft intervals from 19 to 27 ft bgs at IP-08, followed sequentially by IP-05, IP-07, and IP-06. Injections in the 17 to 19 ft interval were unsuccessful at all locations due to insufficient transmissivity in the aquifer. A second injection at IP-08 (denoted as IP-08A in field forms) consisting of 0.001% MgO was conducted to assess aquifer response. Prior to initiating the injection of MgO, approximately 1 gal of potable water was observed daylighting. Spilled potable water was addressed in accordance with the Workplans, the injection point was offset approximately 2 ft, and no additional daylighting was observed.

The maximum observed flowrate and injection pressure during HGWC-8 pilot study injections was approximately 6.8 gal per minute (gpm) and 4 pounds per square inch (psi), which were below the maximum proposed values included in the Pilot Test Notification Form¹. Approximately 2,000 gal of potable water and 17,000 gal of injectate was injected at the four injection locations associated with the HGWC-18 pilot study area over the course of twelve days, with a daily maximum of 2,350 gal injected.

4.2 HGWC-13 Injection Area (Southwest Area)

Starting at IP-01, DPT tooling was advanced at four injection locations surrounding PT-07 (located northeast of HGWC-13 and south of AP-1, as shown on **Figure 2**) using similar means and methods employed near HGWC-8. Consistent with the HGWC-8 pilot study approach, an initial injection consisting of potable water (i.e., without FeSO_4 or MgO) was conducted to verify that injection instrumentation was functioning, no leaks in the system were present, and to assess the aquifer response to pressurized injection. Between 55 and 238 gal potable water was injected in each 2-ft intervals starting from 35 ft bgs down to 45 ft bgs. In contrast with the HGWC-8 pilot study are injections, transmissivity varied substantially between injection points with groundwater mounding typically less than 2 ft. As such, smaller volumes were injected in intervals where transmissivity was low and minimal mounding was observed in nearby PT wells.

Following completion of potable water injections, 175 gal of 1.67×10^{-4} lb/gal (or 20 mg/L FeSO_4 heptahydrate) was injected at IP-04 from 35 to 43 ft bgs and 375 gal from 45 to 49 ft bgs. Injection volumes were increased in intervals 45 to 49 ft bgs² based on observed mounding PT-07 and PT-08. At IP-03, 350 gal of FeSO_4 was injected in each 2-ft

¹ The proposed injection flowrate and pressure included in the Pilot Test Notification Form for IP-05 through IP-08 were 15 gpm and 4 psi, respectively.

² The targeted bottom of the treatment zone was 49 ft based on the surveyed as-built bottom elevation of the PT-07 well screen.

intervals from 35 to 38.5 ft bgs and from 41 to 49 ft bgs³. At IP-02, 350 gal FeSO₄ was injected in each 2-ft interval from 35 to 39 ft bgs, 50 gal from 39 to 41 ft bgs, and 350 gal from 41 to 48.5 ft bgs⁴. At IP-01, 350 gal FeSO₄ was injected in 2-ft intervals from 33 to 41 ft bgs, 50 gal from 41 to 43 ft bgs, and 350 gal from 47 to 49 ft bgs.

The maximum observed flowrate and injection pressure during HGWC-13 pilot study injections was approximately 5 gpm and 11 psi, which were below the maximum proposed values included in the Pilot Test Notification Form⁵. Approximately 818 gal of potable water and 7,625 gal of injectate was injected at the four injection locations associated with the HGWC-13 pilot study area over the course of seven days, with a daily maximum of 1,975 gal injected.

³ The injection screen was raised to 36.5 to 38.5 ft bgs after encountering insufficient transmissivity at 37 to 39 ft bgs. Similarly, insufficient transmissivity was encountered from 39 to 41 ft bgs.

⁴ The injection screen was raised to 46.5 to 48.5 ft bgs after encountering insufficient transmissivity at 47 to 49 ft bgs.

⁵ The proposed injection flowrate and pressure included in the Pilot Test Notification Form for IP-01 through IP-04 were 15 gpm and 4 psi, respectively.

5. POST-INJECTION PERFORMANCE MONITORING AND REPORTING

In accordance with the Workplans, groundwater quality data from each performance monitoring event will be directly compared against the Mo and As GWPS and the results of the baseline characterization to evaluate the efficacy of FeSO₄ and MgO as a method of remediation. In addition, Appendix IV monitoring parameters⁶ will be analyzed and monitored over the duration of the pilot study to evaluate potential localized mobilization of other Appendix IV parameters following injections.

Post-injection performance monitoring was initiated on October 10 and October 17, 2023, for the HGWC-8 and HGWC-13 pilot study areas, respectively, with groundwater samples collected from their respective performance monitoring wells. The monitoring frequency will be weekly for four weeks, then monthly for a period of five months, and finally, quarterly for a period of one year for a maximum total duration of 1.5 years of performance monitoring.

Updates concerning the pilot study results will be reported to GA EPD Solid Waste Management Program as brief summaries included as part of semiannual groundwater monitoring and corrective action reporting. Links to these reports will be emailed to the GA EPD Wastewater Regulatory Program. A comprehensive technical memorandum will be prepared at the conclusion of the pilot study for inclusion in a semiannual groundwater monitoring report.

⁶ Excluding radium.

6. REFERENCES

Geosyntec, 2022. *Draft Remedy Selection Report, Georgia Power Company, Plant Hammond Ash Pond 1 (AP-1)*. August 2022.

Geosyntec, 2023a. *Groundwater Monitoring Plan – Plant Hammond Ash Pond 1 (AP-1)*. July 2023, revision 2.

Geosyntec, 2023b. *HGWC-8 Pilot Study Workplan, Plant Hammond Ash Pond 1 (AP-1)*. August 2023.

Geosyntec, 2023c. *HGWC-13 Pilot Study Workplan, Plant Hammond Ash Pond 1 (AP-1)*. August 2023.

TABLES

Table 1
 Summary of Well Construction Details
 Plant Hammond AP-1, Floyd County, Georgia

| Pilot Study Area | Well ID | Well Completion | Installation Date | Northing ⁽¹⁾ | Easting ⁽¹⁾ | Ground Surface Elevation ⁽²⁾ (ft) | Top of Casing Elevation ⁽²⁾ (ft) | Top of Screen Elevation (ft) | Bottom of Screen Elevation (ft) | Well Depth (ft bgs) ⁽³⁾ | Screen Interval Length (ft) |
|-----------------------------|---------|------------------|-------------------|-------------------------|------------------------|--|---|------------------------------|---------------------------------|------------------------------------|-----------------------------|
| HGWC-13 (Southwest Area) | PT-07 | Flush Mount | 6/3/2023 | 1548675.24 | 1940933.39 | 592.00 | 591.75 | 554.40 | 544.30 | 48.00 | 10 |
| | PT-08 | Flush Mount | 6/3/2023 | 1548666.82 | 1940929.58 | 592.10 | 591.83 | 560.20 | 550.20 | 42.20 | 10 |
| HGWC-8 (East Area) | PT-09 | Protective Riser | 6/1/2023 | 1549049.74 | 1942393.11 | 577.33 | 580.35 | 560.18 | 550.18 | 27.45 | 10 |
| | PT-10 | Protective Riser | 6/1/2023 | 1549040.34 | 1942413.88 | 577.39 | 580.44 | 560.29 | 550.29 | 27.40 | 10 |

Notes:

ft bgs = feet below ground surface.

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Survey was completed by GEL Solutions and certified July 17, 2023, and August 30, 2023.

(2) Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Ground surface elevation defined at the survey nail installed within the well pad. Survey was completed by GEL Solutions and certified July 17, 2023, and August 30, 2023.

(3) Total well depth accounts for 0.3 ft sump.

Table 2
Summary of Baseline Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

| Pilot Study Area: | | Southwest Area | | | | East Area | | | |
|-------------------|---|----------------|------------|-----------|------------|------------|-----------|-----------|-----------|
| Well ID: | | PT-07 | PT-07 | PT-08 | PT-08 | PT-09 | PT-09 | PT-10 | PT-10 |
| Sample Date: | | 7/13/2023 | 8/9/2023 | 7/13/2023 | 8/9/2023 | 7/13/2023 | 8/9/2023 | 7/13/2023 | 8/9/2023 |
| | Parameter ^(1,2,3) | | | | | | | | |
| APPENDIX III | Boron | 1.0 | 0.93 | 1.0 | 0.99 | 2.1 | 1.6 | 2.2 | 2.1 |
| | Calcium | 168 | 173 | 161 | 146 | 110 | 136 | 127 | 116 |
| | Chloride | 15.7 | 13.5 | 17.0 | 14.5 | 55.3 | 47.5 | 67.2 | 62.5 |
| | Fluoride | 0.36 | 0.28 | 0.36 | 0.27 | 0.24 | 0.26 | 0.33 | 0.27 |
| | pH | 6.76 | 6.82 | 6.66 | 6.82 | 6.57 | 6.89 | 7.01 | 7.18 |
| | Sulfate | 411 | 339 | 417 | 290 | 160 | 188 | 145 | 123 |
| | TDS | 808 | 771 | 734 | 682 | 534 | 594 | 557 | 553 |
| APPENDIX IV | Antimony | <0.0012 | <0.0012 | <0.0012 | <0.0012 | 0.0027 J | <0.0012 | <0.0012 | <0.0012 |
| | Arsenic | 0.34 | 0.27 | 0.33 | 0.32 | <0.0037 | <0.0037 | <0.0037 | <0.0037 |
| | Barium | 0.056 | 0.053 | 0.051 | 0.050 | 0.053 | 0.057 | 0.074 | 0.070 |
| | Beryllium | 0.00012 J | 0.000095 J | 0.00011 J | 0.000073 J | 0.000077 J | <0.000054 | <0.000054 | <0.000054 |
| | Cadmium | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 |
| | Chromium | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 |
| | Cobalt | 0.13 | 0.090 | 0.031 | 0.032 | 0.0045 J | 0.0028 J | 0.0026 J | 0.0019 J |
| | Fluoride | 0.36 | 0.28 | 0.36 | 0.27 | 0.24 | 0.26 | 0.33 | 0.27 |
| | Lead | <0.00012 | <0.00012 | 0.00019 J | <0.00012 | 0.00014 J | <0.00012 | <0.00012 | <0.00012 |
| | Lithium | 0.060 | 0.069 | 0.065 | 0.073 | 0.0013 J | 0.0017 J | 0.0014 J | 0.0012 J |
| | Mercury | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 | <0.00013 |
| | Molybdenum | 0.017 | 0.012 | 0.0079 J | 0.0071 J | 0.065 | 0.21 | 0.10 | 0.096 |
| | Selenium | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 | <0.0014 |
| Thallium | 0.00024 J | 0.00022 J | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | <0.00018 | |
| INORGANICS | Alkalinity (Bicarbonate) as CaCO ₃ | 102 | 116 | 107 | 118 | 144 | 150 | 185 | 199 |
| | Alkalinity (Carbonate) as CaCO ₃ | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Alkalinity (Total) as CaCO ₃ | 102 | 116 | 107 | 118 | 144 | 150 | 185 | 199 |
| | Sodium | 6.1 | 7.2 | 6.9 | 6.8 | 10.6 | 10.3 | 10.5 | 9.4 |
| | Sulfide | <0.022 | <0.022 | 0.036 J | <0.022 | <0.022 | <0.022 | <0.022 | 0.045 J |
| METALS | Iron | 23.8 | 27.1 | 24.2 | 22.0 | 0.33 | 0.10 | 3.1 | 2.9 |
| | Magnesium | 18.5 | 19.4 | 18.9 | 17.3 | 15.6 | 18.2 | 16.8 | 16.8 |
| | Manganese | 8.2 | 7.6 | 8.7 | 6.8 | 0.79 | 0.51 | 3.5 | 3.1 |
| | Potassium | 6.0 | 6.8 | 6.0 | 6.3 | 6.8 | 7.7 | 7.1 | 6.7 |
| FIELD | Dissolved Oxygen | 0.30 | 0.40 | 0.09 | 0.94 | 0.02 | 0.58 | 0.03 | 0.12 |
| | Oxidation-Reduction Potential (mV) | -111 | -90.9 | -124.9 | -84.4 | 18.4 | 14.4 | -161.5 | -80.9 |
| | Temperature (°C) | 27.26 | 21.19 | 24.53 | 20.60 | 24.48 | 21.59 | 21.95 | 21.79 |
| | Specific Conductance (µS/cm) | 1065 | 1012 | 1007 | 909.2 | 779.8 | 826.9 | 842.2 | 770.5 |
| | pH (s.u.) | 6.76 | 6.82 | 6.66 | 6.82 | 6.57 | 6.89 | 7.01 | 7.18 |
| | Turbidity (NTU) | 4.91 | 0.18 | 4.41 | 3.98 | 4.95 | 0.56 | 4.94 | 4.55 |

Notes:
 < = Indicates the parameter was not detected above the analytical method detection limit (MDL).
 °C = degrees Celsius
 J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).
 µS/cm = microsiemens per centimeter
 mV = millivolts
 NTU = nephelometric turbidity units
 s.u. = standard units
 TDS = Total dissolved solids
 (1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Analysis of combined radium omitted from the pilot study monitoring program. Unless otherwise indicated, parameters are reported in units of milligrams per liter (mg/L).
 (2) Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540C-2015, and combined radium 226/228 by EPA Methods 9315.9320.
 (3) The pH value presented was recorded at the time of sample collection in the field.

Table 3
Summary of Daily Injection Volumes
Plant Hammond AP-1, Floyd County, Georgia

| Date | Daily Injection Volume (gal) | |
|---------------|------------------------------|-----------------------------|
| | HGWC-8 (East Area) | HGWC-13 (Southwest Area) |
| 9/25/2023* | 500 | -- |
| 9/26/2023* | 1,500 | -- |
| 09/27/2023 | 2,200 | -- |
| 09/28/2023 | 2,250 | -- |
| 09/29/2023 | 2,350 | -- |
| 09/30/2023 | 2,000 | -- |
| 10/01/2023 | 2,250 | -- |
| 10/02/2023 | 2,300 | -- |
| 10/03/2023 | 250 | -- |
| 10/4/2023* | -- | 238 |
| 10/9/2023* | -- | 580 |
| 10/10/2023 | -- | 1,050 |
| 10/11/2023 | -- | 1,575 |
| 10/12/2023 | -- | 1,975 |
| 10/13/2023 | -- | 1,400 |
| 10/14/2023 | -- | 1,625 |
| 10/15/2023 | 735 | -- |
| 10/16/2023 | 2,080 | -- |
| 10/17/2023 | 585 | -- |
| TOTAL: | 19,000 | 8,443 |

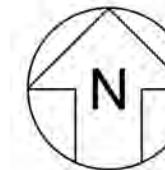
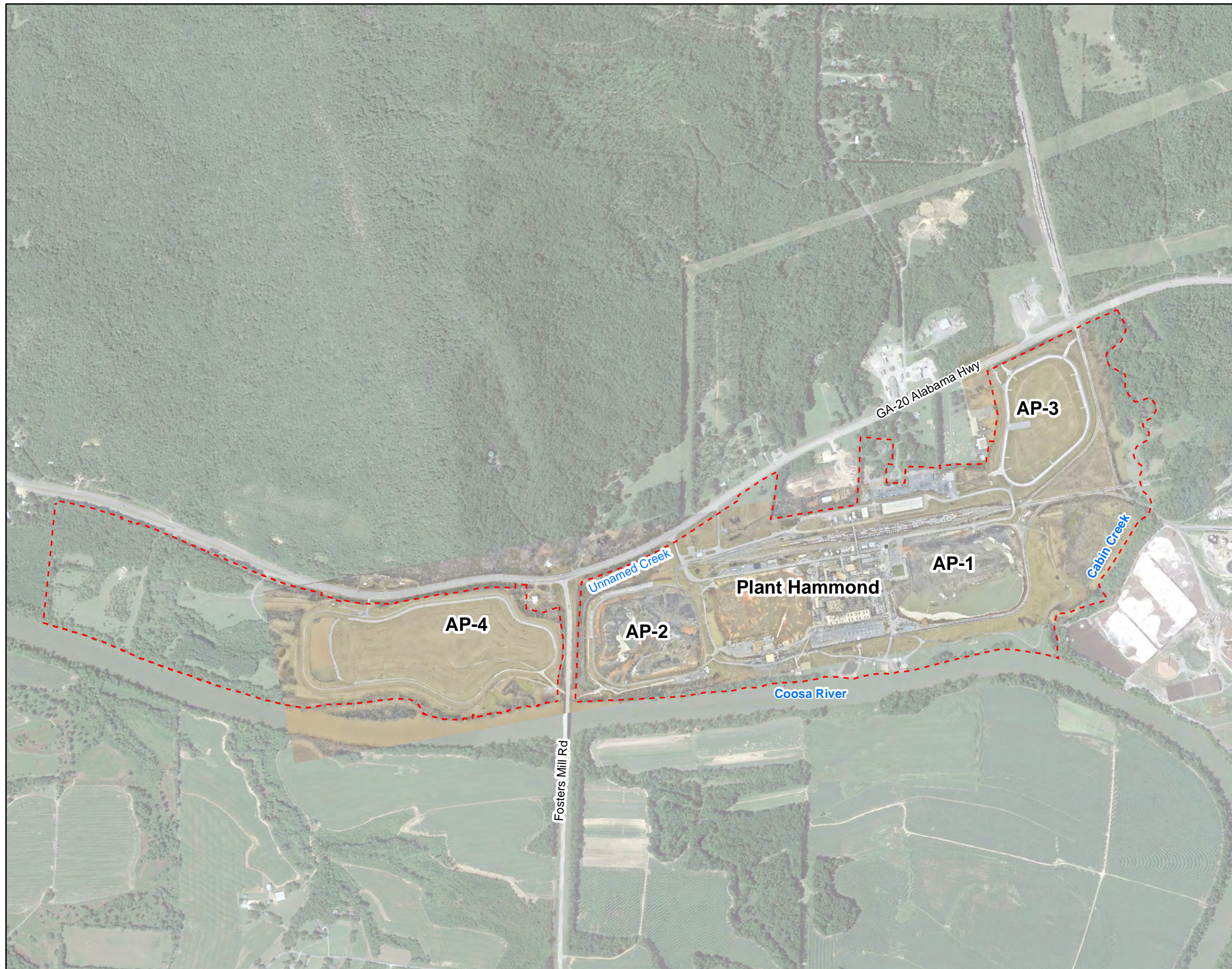
Notes:

-- = indicates no injections occurred on this date

* = injection consisted of potable water

gal = gallons

FIGURES

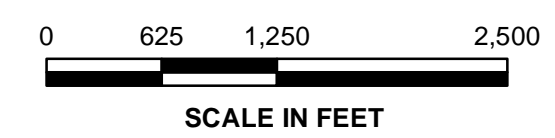


LEGEND

Plant Hammond Property Boundary



Note:
 1. Aerial photograph source: Google Earth Pro, August 2019 and Georgia Power Company, February 2023.



SITE LOCATION MAP

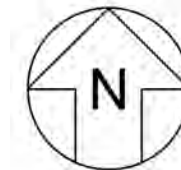
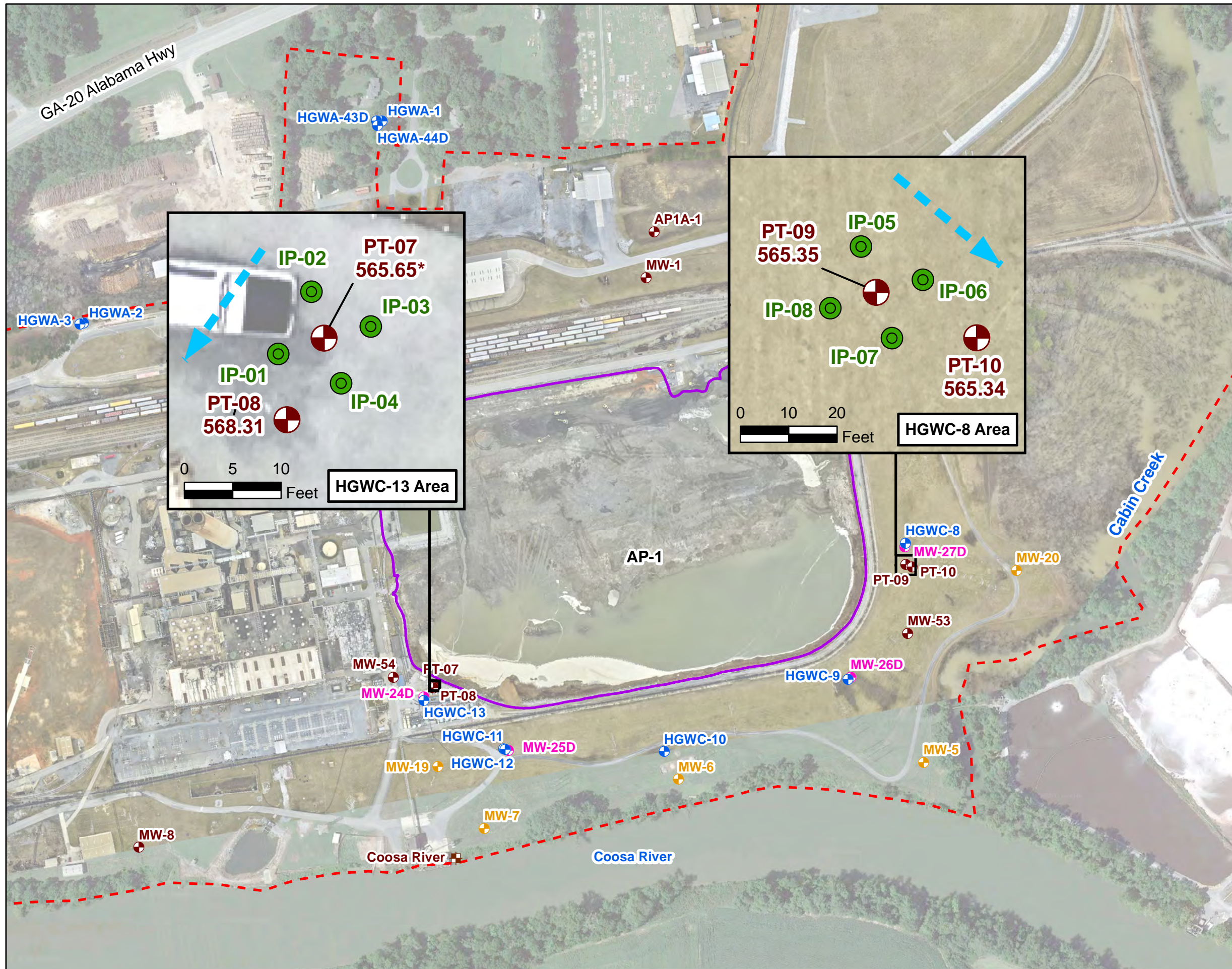
GEORGIA POWER COMPANY
 PLANT HAMMOND AP-1
 ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
 consultants

KENNESAW, GA NOVEMBER 2023

FIGURE
1



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring
- Vertical Assessment Monitoring
- ⊕ Piezometer (See Note 2)
- ⊕ Surface Water Level Gauge Point
- Injection Point
- Approximate Groundwater Flow Direction
- Approximate AP-1
- - - Plant Hammond Property Boundary

Notes:

1. Piezometers PT-07, PT-08, PT-09, PT-10, MW-53 and MW-54 were installed in support of an Assessment of Corrective Measures geochemical injections pilot study and are not included in the routine semiannual sampling of the monitoring well network.
2. Piezometer water elevations for PT-07 through PT-09 were recorded on August 7, 2023. Elevation are in feet (ft) referenced to the North American Vertical Datum of 1998 (NAVD 88).
3. "*" - The groundwater flow direction in this area is based on historical data for the site and does not consider PT-07.
4. Aerial photograph source: Google Earth Pro, August 2019, and Georgia Power Company, February 2023.



PILOT STUDY INJECTION POINT AND MONITORING WELL LOCATIONS

GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA NOVEMBER 2023

**FIGURE
2**

APPENDIX A

Well Design, Installation, and Development Report – Addendum No. 5



Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

WELL DESIGN, INSTALLATION, AND DEVELOPMENT REPORT - ADDENDUM

No. 5

**PLANT HAMMOND ASH POND 1
(AP-1)**

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW6581E

October 2023



CERTIFICATION PAGE

I hereby certify that this *Well Design, Installation, and Development Report – Addendum No. 5, Plant Hammond Ash Pond 1 (AP-1)* has been prepared by, or under the direct supervision of, a Qualified Groundwater Scientist with Geosyntec Consultants, Inc. and is in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule [40 Code of Federal Regulations 257 Subpart D], specifically §257.91(e)(1), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10.

According to 391-3-4-.01, a Qualified Groundwater Scientist is “a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action.”



A handwritten signature in blue ink that reads "Christine Hug".

Christine Hug P.G.
Georgia Professional Geologist No. 002221
Project Manager
Geosyntec Consultants

October 3, 2023

Date

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LIST OF ACRONYMS

| | |
|---------------|---|
| AP | Ash Pond |
| ASTM | American Society for Testing and Materials |
| CCR | coal combustion residual |
| CFR | Code of Federal Regulations |
| CFS | Civil Field Services |
| DO | dissolved oxygen |
| GA EPD | Georgia Environmental Protection Division |
| Georgia Power | Georgia Power Company |
| NAD | North America Datum |
| NAVD | North American Vertical Datum |
| NSF | National Sanitation Foundation |
| ORP | oxygen reduction potential |
| PVC | polyvinyl chloride |
| SCS | Southern Company Services |
| TOC | top of casing |
| US EPA | United States Environmental Protection Agency |

1. INTRODUCTION

This report provides details regarding the design, installation, and development of six piezometers¹ (MW-53, MW-54, PT-07, PT-08, PT-09, and PT-10) to supplement the current groundwater monitoring system at Georgia Power Company (Georgia Power) Plant Hammond (Site) Ash Pond 1 (AP-1). The report was prepared as an addendum to previously submitted well design, installation, development and decommissioning reports issued for the Site (ERM, 2017; Geosyntec 2019, 2020a, 2020b, and 2020c), and meets the requirements promulgated in the United States Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule [40 Code of Federal Regulations (CFR) Part 257, Subpart D], specifically 40 CFR §257.91(e)(1) and Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10.

Plant Hammond is located in Floyd County, approximately 10 miles west of Rome, Georgia. The current groundwater monitoring system at AP-1 includes a network of detection monitoring wells, assessment monitoring wells, and piezometers. The locations of these wells and piezometers are shown on **Figure 1**.

MW-53 and MW-54 were installed to characterize site conditions. PT-07, PT-08, PT-09, and PT-10 were installed to specifically monitor the performance of the pilot study injections in support of the Assessment of Corrective Measures program.

¹ For the purposes of this report, unless otherwise specified, the term “well” will be used interchangeably with “piezometer”.

2. DRILLING AND WELL INSTALLATION

Well installation and development activities were performed according to accepted industry standards and following guidelines within the Manual for Groundwater Monitoring (GA EPD, 1991). Well drilling, installation, and surface completion activities were performed by Cascade Drilling, Inc. of Midland, North Carolina. In accordance with the Georgia Water Well Standards Act, the driller was required to have an insurance bond on file with the State of Georgia at the time of drilling. A copy of this bond is provided in **Appendix A**. A geologist under the supervision of a professional geologist (PG) registered to practice in the State of Georgia, both of whom are employed with Geosyntec Consultants (Geosyntec), documented the drilling and installation efforts to record observations, soil and rock descriptions, subsurface stratigraphy, water elevations, and other field activities. Geosyntec was also responsible for the development of the newly installed wells.

The locations of the new piezometers are shown on **Figure 1**. Well construction details are provided in **Table 1**; boring and well construction logs are included in **Appendix B**.

2.1 Drilling Method

The boreholes were advanced using roto-sonic drilling techniques with continuous core collection. Terra Sonic compact crawler size track mounted rig with a 6-inch sonic drill rod was used to install the wells. Care was taken so that the drilling methods did not introduce contamination of the groundwater from surface activities. Drilling equipment was cleaned prior to mobilizing to the site.

2.2 Screened Interval

Details regarding the well screened intervals are provided in **Table 1**. The wells are screened in the uppermost water bearing unit of the Site. Screened elevations across the new wells range from approximately 564.98 to 544.30 feet (referenced to the North American Vertical Datum of 1988). The wells were constructed with a 10 foot well screen segment.

2.3 Well Casings and Screens

The wells were constructed of 2-inch inner diameter Schedule 40 polyvinyl chloride (PVC) casing with flush-threaded fittings. The wells were installed with a 10-foot nominal length pre-packed dual-wall well screen with 0.010-inch slots. The casing and

pre-packed screens arrived pre-cleaned and packaged by the manufacturer. The pre-packed well screens were constructed onsite by packing sand between slotted PVC and the well screen. Well construction materials are sufficiently durable to resist chemical and physical degradation and do not interfere with the quality of groundwater samples. Casing and screen are flush-threaded. Solvent or glue was not used to construct the wells. A threaded bottom cap was attached to the bottom of each well screen. The PVC products used were American Society for Testing and Materials (ASTM) and National Sanitation Foundation (NSF) rated. Well screen interval details are provided in **Table 1**.

2.4 Well Intake Design

The wells were designed and constructed to: (1) allow sufficient groundwater flow to the well for sampling; (2) minimize the passage of formation materials (turbidity) into the well; and (3) ensure sufficient structural integrity to prevent collapse of the well. The annular space between the face of the formation and the screens was filled to minimize passage of formation materials into the well. A filter pack of clean, well-rounded, quartz sand was installed in each well. The 0.01-inch slot size was selected to minimize the inflow of formation material without impairing influent groundwater flow.

2.5 Filter Pack

Highly Pure Quartzite of Consolidated Aggregates Co. silica sand filter pack was used as the appropriate gradation for the wells. The filter pack material meets the ASTM D5092 uniformity coefficient specification of 2.5 or less, with a uniformity coefficient of 1.6.

Filter pack material was placed within the pre-packed dual-wall well screens and in the annular space between the outside of the pre-pack screen and borehole wall to ensure an adequate thickness of filter pack material between the wells and the formation. Placement of the filter pack between the borehole wall and PVC was placed via gravity-pouring. Filter pack material placed in the annular space outside of the well screens extended approximately 2 feet above the top of screens. No bridging occurred during filter pack placement at any of the well locations.

Upon placement of the filter pack, the wells were pumped with a submersible pump to assure settlement of the filter pack. The top of filter pack depth was measured following pumping to ensure appropriate extension of filter sand above the screens. The depth of top of filter pack was measured and recorded on the well construction logs provided in **Appendix B**.

2.6 Annular Seal

A minimum of two feet of bentonite chips (PelPlug un-coated 3/8-inch bentonite pellets) were placed immediately above the filter pack by gravity-pouring into the annular space and hydrated per manufacture's specifications. A tremie pipe was used to probe the annular space to ensure that no bridging occurred. The bentonite was hydrated with potable water for a duration meeting the manufacture's specifications prior to grouting the remaining annulus.

The annulus above the bentonite seal was grouted with AquaGuard bentonite grout placed via tremie pipe and direct pour methods from the top of the bentonite seal. During grouting, care was taken to assure that the bentonite seal was not disturbed by locating the base of the tremie pipe approximately 2 feet above the bentonite seal and injecting grout at low pressure/velocity. A cement apron 4-feet by 4-feet by 4-inches was poured around the protective risers at wells MW-53, PT-09, and PT-10. A cement apron 2-feet by 2-feet by 4-inches was poured around flush mount wells PT-07, PT-08, and MW-54. The pads were mounded slightly outward to direct surface drainage away from the wells.

2.7 Cap and Protective Casing

The well risers at MW-53, PT-09, and PT-10 were fitted with a locking cap and a lockable cover. A one-quarter inch vent hole was drilled into the PVC riser pipes to provide an avenue for the escape of gas. A weep hole was drilled in the outer protective casing near the bottom above the concrete pad. Pea gravel was placed inside the protective casing between the riser pipe and the outer casing. The wells were clearly marked with the proper well identification number on the stand-up casing. The lockable cover guards the casing from damage and the locking caps serve as a security device to prevent well tampering. Bollards were installed around MW-53, and well cluster PT-09, and PT-10 to protect the general well area.

MW-54, PT-07, and PT-08 were installed with flush-mounted well vaults and watertight flush-mounted well covers. The wells were clearly marked with the proper well identification number on a secured aluminum well tag on the manhole covers.

Construction details are documented on the well construction logs provided in **Appendix B**.

3. WELL DEVELOPMENT

The wells were developed using a combination of surging and pumping to (1) restore the natural hydraulic conductivity of the formation, and (2) to remove fine-grained sediment to ensure low-turbidity groundwater samples. The wells were alternately surged and purged until visually clear of particulates. Turbidity, pH, temperature, conductivity, oxidation-reduction potential (ORP), and dissolved oxygen (DO) measurements were recorded to ensure that each well was fully developed. The well development and calibration field forms are included in **Appendix C**.

4. SURVEY

Upon completion of the well installations, select horizontal locations and vertical elevations were surveyed by a Georgia-licensed surveyor. The top of the PVC well casing [top of casing (TOC) elevation] and the survey pin installed at the well pads were surveyed to within 0.5-foot horizontal accuracy and to 0.01-foot vertical accuracy. The horizontal location (i.e., northings and eastings) was recorded in feet relative to the North America Datum of 1983 (NAD) with the vertical elevation recorded in feet relative to the North American Vertical Datum of 1988. Certified survey data are provided in the well construction table (**Table 1**). A copy of the certified well survey data for the new wells are provided in **Appendix D**.

5. REFERENCES

- Environmental Resources Management (ERM), 2017. *Well Design, Installation, Development, and Decommissioning Report – Plant Hammond Ash Ponds 1 and 2*. October 2017.
- Georgia Environmental Protection Division (GA EPD), Georgia Department of Natural Resources, 1991. *Manual for Groundwater Monitoring*. September 1991.
- Geosyntec Consultants, 2019. Well Design, Installation and Development Report – Addendum, Plant Hammond Ash Ponds 1 and 2 (AP-1 and AP-2). June 2019.
- Geosyntec Consultants, 2020a. Well Design, Installation and Development Report – Addendum 2, Plant Hammond Ash Ponds 1 (AP-1). January 2020.
- Geosyntec Consultants, 2020b. Well Design, Installation and Development Report – Addendum No 3, Plant Hammond Ash Ponds 1 (AP-1). July 2020.
- Geosyntec Consultants, 2020c. Well Design, Installation and Development Report – Addendum No 4, Plant Hammond Ash Ponds 1 (AP-1). November 2020.
- United States Environmental Protection Agency. 2015a. 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 2015

TABLE

Table 1
 Summary of Well Construction Details
 Plant Hammond AP-1, Floyd County, Georgia

| Well ID | Purpose | Well Completion | Installation Date | Northing ⁽¹⁾ | Easting ⁽¹⁾ | Ground Surface Elevation ⁽²⁾ (ft) | Top of Casing Elevation ⁽²⁾ (ft) | Top of Screen Elevation (ft) | Bottom of Screen Elevation (ft) | Well Depth (ft bgs) ⁽³⁾ |
|---------|------------|------------------|-------------------|-------------------------|------------------------|--|---|------------------------------|---------------------------------|------------------------------------|
| PT-07 | Piezometer | Flush Mount | 6/3/2023 | 1548675.24 | 1940933.39 | 592.00 | 591.75 | 554.40 | 544.30 | 48.00 |
| PT-08 | Piezometer | Flush Mount | 6/3/2023 | 1548666.82 | 1940929.58 | 592.10 | 591.83 | 560.20 | 550.20 | 42.20 |
| PT-09 | Piezometer | Protective Riser | 6/1/2023 | 1549049.74 | 1942393.11 | 577.33 | 580.35 | 560.18 | 550.18 | 27.45 |
| PT-10 | Piezometer | Protective Riser | 6/1/2023 | 1549040.34 | 1942413.88 | 577.39 | 580.44 | 560.29 | 550.29 | 27.40 |
| MW-53 | Piezometer | Protective Riser | 6/2/2023 | 1548835.51 | 1942399.62 | 577.64 | 580.59 | 554.54 | 544.54 | 33.40 |
| MW-54 | Piezometer | Flush mount | 6/2/2023 | 1548699.51 | 1940805.03 | 592.98 | 592.66 | 564.98 | 554.98 | 38.30 |

Notes:

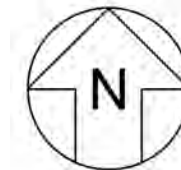
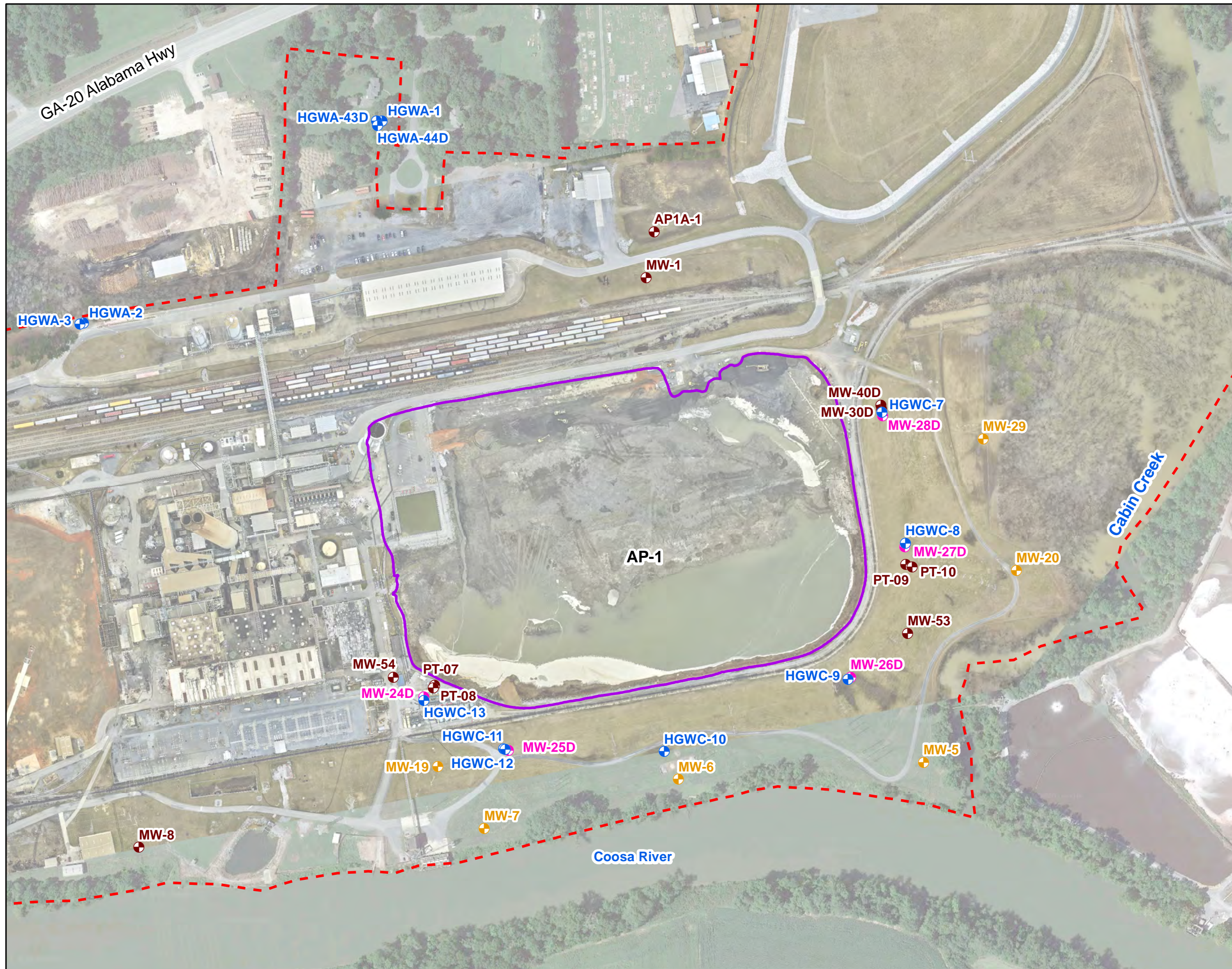
ft bgs = feet below ground surface.

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Survey was completed by GEL Solutions and certified July 17, 2023, and August 30, 2023.

(2) Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Ground surface elevation defined at the survey nail installed within the well pad. Survey was completed by GEL Solutions and certified July 17, 2023, and August 30, 2023.

(3) Total well depth accounts for 0.3 ft sump.

FIGURE



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Approximate AP-1 Boundary
- Plant Hammond Property Boundary

Notes:
 1. Aerial photograph source: Google Earth Pro, August 2019, and Georgia Power Company, February 2023.



GROUNDWATER MONITORING NETWORK MAP
 GEORGIA POWER COMPANY
 PLANT HAMMOND AP-1
 ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA OCTOBER 2023

FIGURE 1

APPENDIX A

Well Driller Performance Bonds

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company

, Surety upon

a certain Bond No. 800033976

dated effective September 27, 2017
(MONTH-DAY-YEAR)

on behalf of Ricky Davis / Cascade Drilling, L.P.
(PRINCIPAL)

and in favor of Department of Natural Resources, State of Georgia
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2023
(MONTH-DAY-YEAR)

and ending on June 30, 2025
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and 00/100 Dollars (\$30,000.00)

Description of bond Performance Bond for Water Well Contractors

Premium:

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on April 13, 2023
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By 
ATTORNEY-IN-FACT Carlos A. Albelo



Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Megan Sivley, Melissa Haddick, Sandra Parker, Orlando Aguirre, Stacy Killebrew, Carlos A. Albelo**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

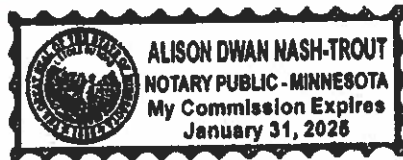
IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this first day of January, 2023.



By *Sarah A. Kolar*
Sarah A. Kolar, General Counsel

STATE OF MINNESOTA
HENNEPIN COUNTY

On this first day of January, 2023, before me personally came Sarah A. Kolar, General Counsel of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and she acknowledged the execution of the same, and being by me duly sworn, that she is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.



Alison Nash-Trout
Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 13th day of April, 2023.



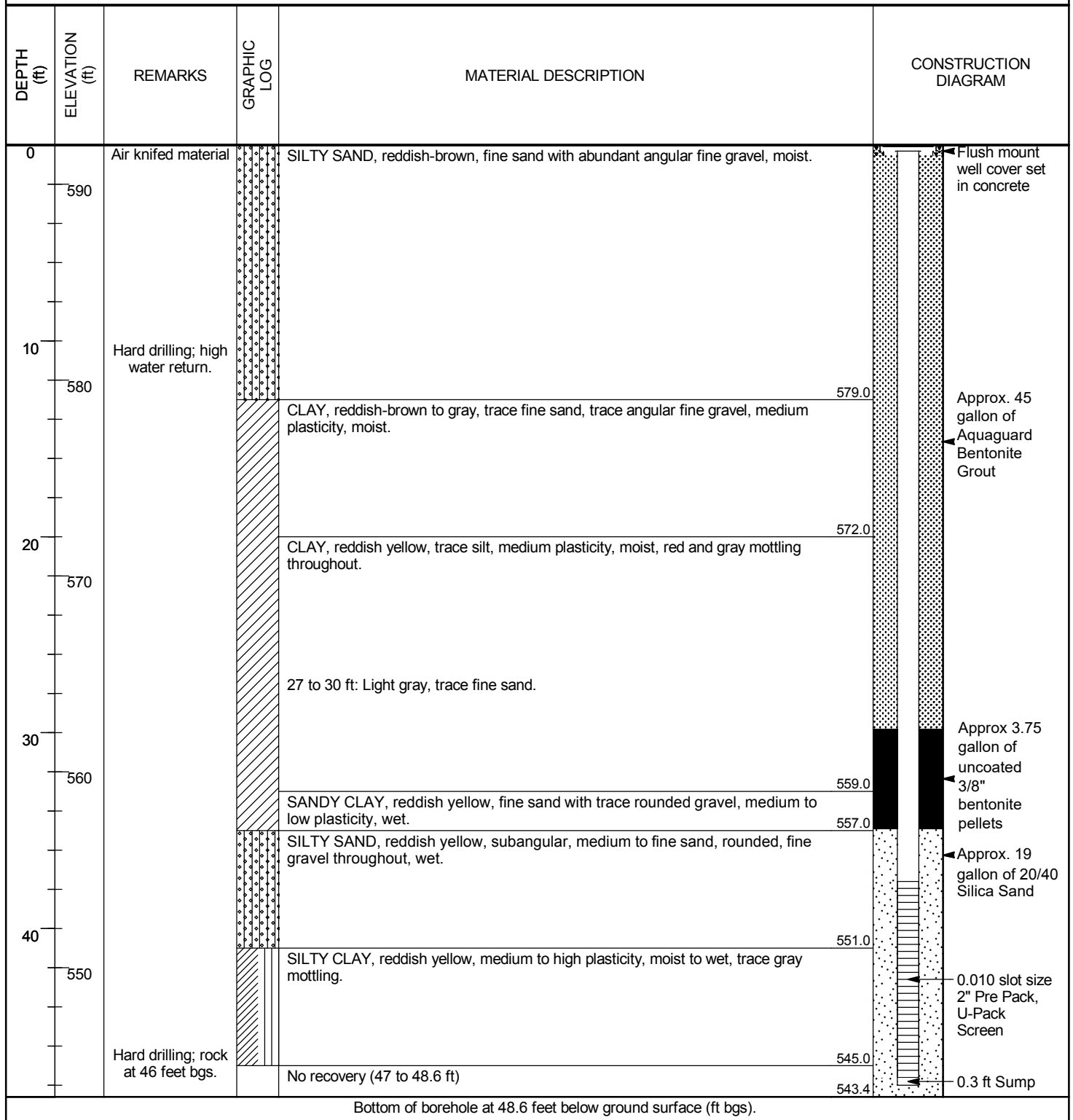
This Power of Attorney expires
January 31, 2025

Kara Barrow
Kara Barrow, Secretary

APPENDIX B

Boring and Well Construction Logs

| | |
|--|--|
| CLIENT <u>Southern Company Services</u> | PROJECT NAME <u>Plant Hammond Well Installation</u> |
| PROJECT NUMBER <u>GW6581E</u> | PROJECT LOCATION <u>Plant Hammond</u> |
| DATE STARTED <u>06/03/23</u> COMPLETED <u>06/03/23</u> | NORTHING <u>1548675.24 ft</u> EASTING <u>1940933.39 ft</u> |
| DRILLER <u>Cascade Drilling</u> | GROUND ELEVATION <u>592.00 ft</u> BORING DIAMETER <u>6 in.</u> |
| DRILLING METHOD <u>Sonic</u> | TOP OF CASING ELEVATION <u>591.75 ft</u> |
| SAMPLING METHOD <u>Sonic Core</u> | GEOPHYSICAL CONTRACTOR <u>---</u> |
| RIG TYPE <u>Terrasonic Compact Crawler</u> | LOGGED BY <u>T. Kessler</u> CHECKED BY <u>C. Hug</u> |

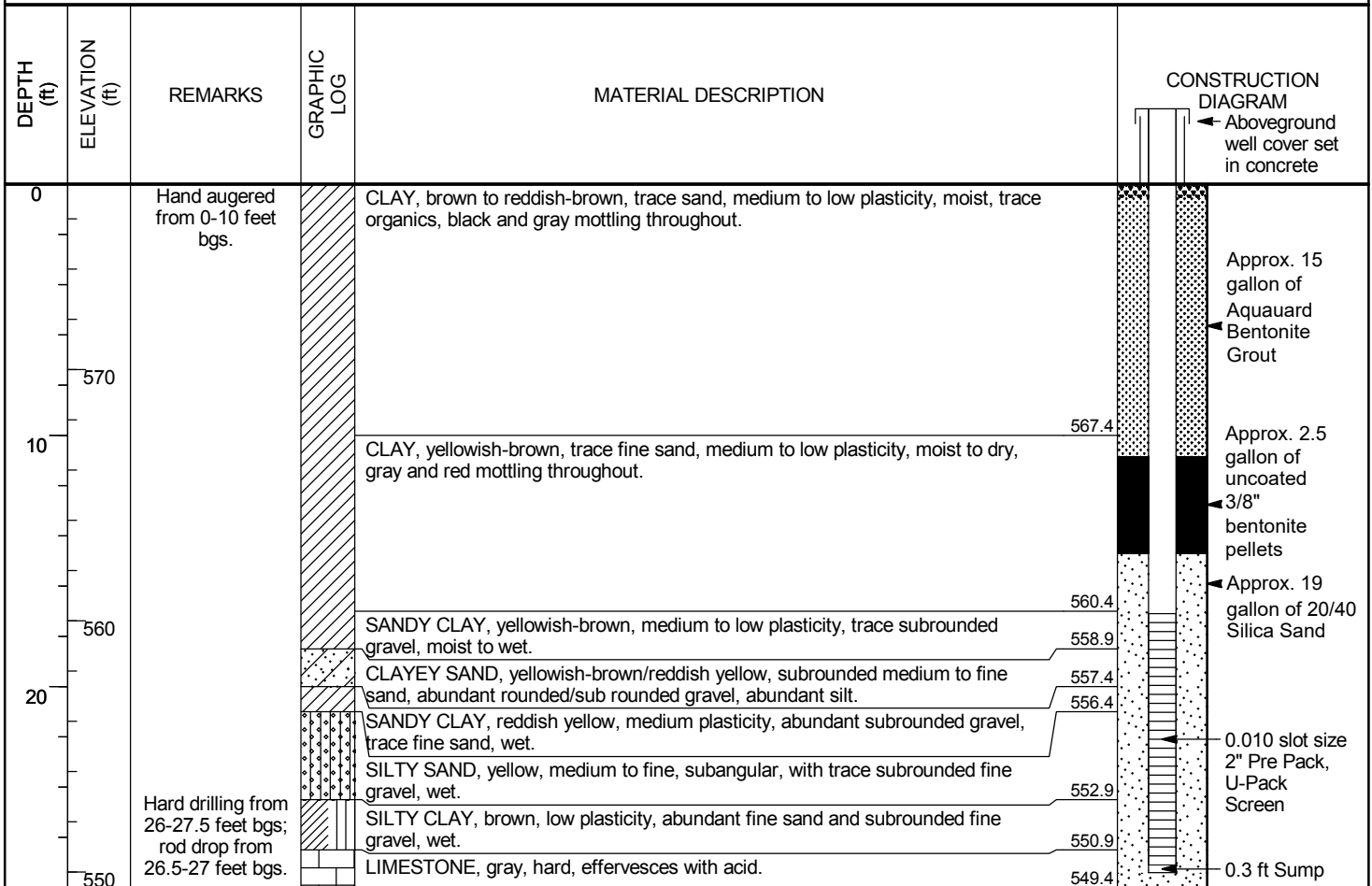


| | |
|--|--|
| CLIENT <u>Southern Company Services</u> | PROJECT NAME <u>Plant Hammond Well Installation</u> |
| PROJECT NUMBER <u>GW6581E</u> | PROJECT LOCATION <u>Plant Hammond</u> |
| DATE STARTED <u>06/03/23</u> COMPLETED <u>06/03/23</u> | NORTHING <u>1548666.82 ft</u> EASTING <u>1940929.58 ft</u> |
| DRILLER <u>Cascade Drilling</u> | GROUND ELEVATION <u>592.10 ft</u> BORING DIAMETER <u>6 in.</u> |
| DRILLING METHOD <u>Sonic</u> | TOP OF CASING ELEVATION <u>591.83 ft</u> |
| SAMPLING METHOD <u>Sonic Core</u> | GEOPHYSICAL CONTRACTOR <u>---</u> |
| RIG TYPE <u>Terrasonic Compact Crawler</u> | LOGGED BY <u>T. Kessler</u> CHECKED BY <u>C. Hug</u> |

| DEPTH (ft) | ELEVATION (ft) | REMARKS | GRAPHIC LOG | MATERIAL DESCRIPTION | CONSTRUCTION DIAGRAM |
|------------|----------------|--|-------------|--|--|
| 0 | 590 | Air knifed material | | SILTY SAND, reddish-brown, fine sand, abundant angular fine to coarse gravel, moist. | Flush mount well cover set in concrete |
| 10 | 580 | Very soft drilling, no vibrations to 18 feet bgs. Fill material from 13-16 feet bgs. | | CLAY, reddish-brown to gray, trace fine sand and angular to rounded fine gravel, trace silt, medium plasticity, moist, trace organic material. | Approx. 35 gallon of Aquaward Bentonite Grout |
| 20 | 570 | Drilling becomes harder; significant amount of return water to surface during overdrill. | | CLAY, red to yellowish red, trace silt and trace fine sand from 20-21 feet bgs, medium plasticity, moist, gray mottling throughout. | Approx 2.5 gallon of uncoated 3/8" bentonite pellets |
| 30 | 560 | | | SILTY SAND, yellowish red, fine sand with trace rounded fine gravel, moist to wet. | Approx. 19 gallon of 20/40 Silica Sand |
| 40 | 550 | | | SILTY SAND, yellowish red, subrounded medium to fine sand, abundant rounded fine to coarse gravel, wet. | 0.010 slot size 2" Pre Pack, U-Pack Screen |
| | | | | SANDY CLAY, yellowish red, fine sand and trace gravel, medium plasticity, moist. | 0.3 ft Sump |

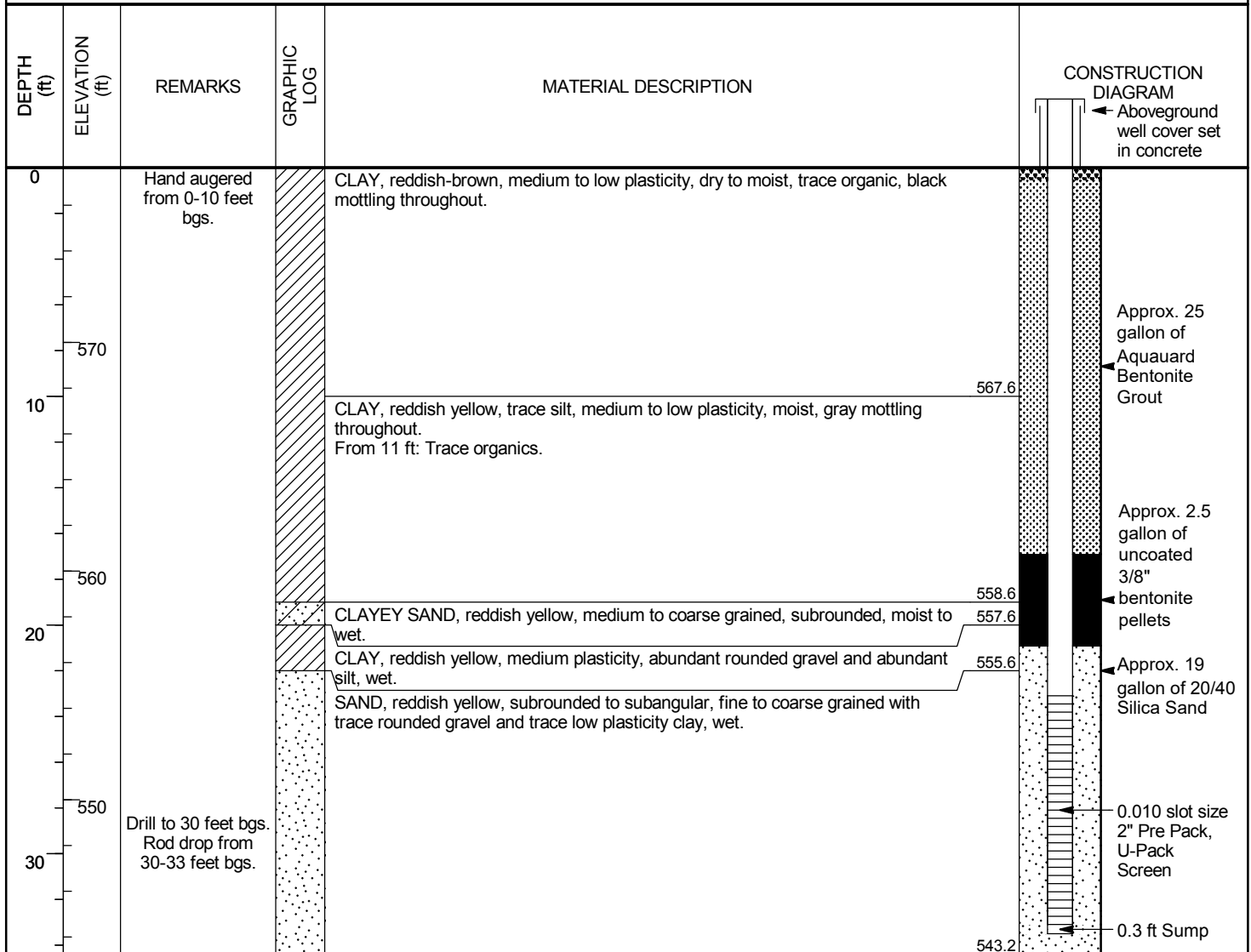
Bottom of borehole at 43.0 feet below ground surface (ft bgs).

| | |
|--|--|
| CLIENT <u>Southern Company Services</u> | PROJECT NAME <u>Plant Hammond Well Installation</u> |
| PROJECT NUMBER <u>GW6581E</u> | PROJECT LOCATION <u>Plant Hammond</u> |
| DATE STARTED <u>06/01/23</u> COMPLETED <u>06/01/23</u> | NORTHING <u>1549040.34 ft</u> EASTING <u>1942413.88 ft</u> |
| DRILLER <u>Cascade Drilling</u> | GROUND ELEVATION <u>577.39 ft</u> BORING DIAMETER <u>6 in.</u> |
| DRILLING METHOD <u>Sonic</u> | TOP OF CASING ELEVATION <u>580.44 ft</u> |
| SAMPLING METHOD <u>Sonic Core</u> | GEOPHYSICAL CONTRACTOR <u>---</u> |
| RIG TYPE <u>Terrasonic Compact Crawler</u> | LOGGED BY <u>T. Kessler</u> CHECKED BY <u>C. Hug</u> |



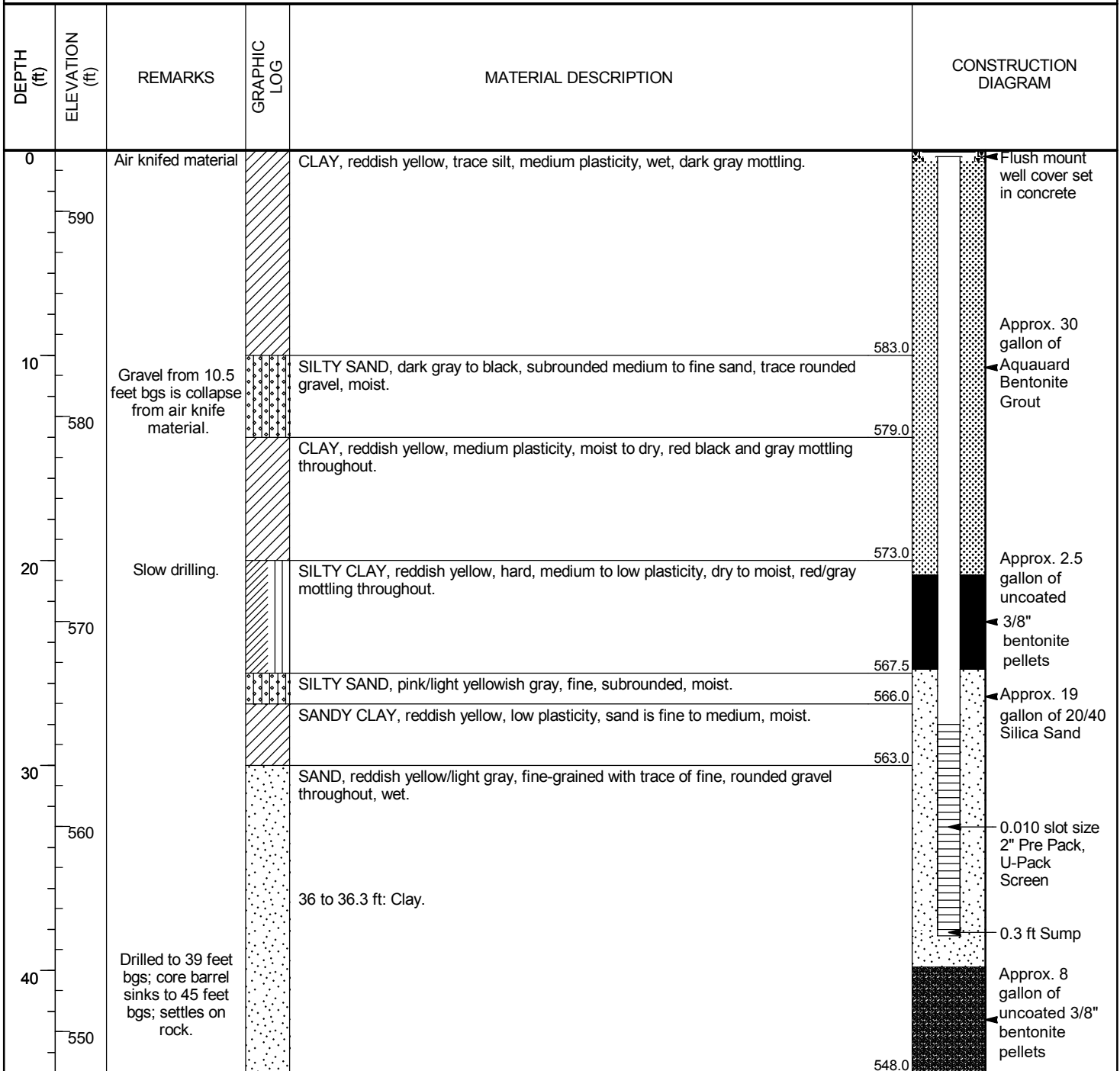
Bottom of borehole at 28.0 feet below ground surface (ft bgs).

| | |
|--|--|
| CLIENT <u>Southern Company Services</u> | PROJECT NAME <u>Plant Hammond Well Installation</u> |
| PROJECT NUMBER <u>GW6581E</u> | PROJECT LOCATION <u>Plant Hammond</u> |
| DATE STARTED <u>06/01/23</u> COMPLETED <u>06/02/23</u> | NORTHING <u>1548835.51 ft</u> EASTING <u>1942399.62 ft</u> |
| DRILLER <u>Cascade Drilling</u> | GROUND ELEVATION <u>577.64 ft</u> BORING DIAMETER <u>6 in.</u> |
| DRILLING METHOD <u>Sonic</u> | TOP OF CASING ELEVATION <u>580.59 ft</u> |
| SAMPLING METHOD <u>Sonic Core</u> | GEOPHYSICAL CONTRACTOR <u>---</u> |
| RIG TYPE <u>Terrasonic Compact Crawler</u> | LOGGED BY <u>T. Kessler</u> CHECKED BY <u>C. Hug</u> |



Bottom of borehole at 34.4 feet below ground surface (ft bgs).

| | |
|--|--|
| CLIENT <u>Southern Company Services</u> | PROJECT NAME <u>Plant Hammond Well Installation</u> |
| PROJECT NUMBER <u>GW6581E</u> | PROJECT LOCATION <u>Plant Hammond</u> |
| DATE STARTED <u>06/02/23</u> COMPLETED <u>06/02/23</u> | NORTHING <u>1548699.51 ft</u> EASTING <u>1940805.03 ft</u> |
| DRILLER <u>Cascade Drilling</u> | GROUND ELEVATION <u>592.98 ft</u> BORING DIAMETER <u>6 in.</u> |
| DRILLING METHOD <u>Sonic</u> | TOP OF CASING ELEVATION <u>592.66 ft</u> |
| SAMPLING METHOD <u>Sonic Core</u> | GEOPHYSICAL CONTRACTOR <u>---</u> |
| RIG TYPE <u>Terrasonic Compact Crawler</u> | LOGGED BY <u>T. Kessler</u> CHECKED BY <u>C. Hug</u> |



Bottom of borehole at 45.0 feet below ground surface (ft bgs).

APPENDIX C

Well Development and Equipment Calibration Forms

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
 Site: Plant Hammond
 Well ID: PI-07
 Total Depth (ft): 48.6
 Depth to Water (ft): 24.3
 Well Diameter (in): 2
 Well Volume (gal) = 0.041d²h: 3.99
 Well Volume (L) = gal * 3.785: 15.10

Project No.: GW15816
 Location: AP-1
 Pump Type/Model: monsoon
 Tubing Material: poly
 Pump Intake Depth (ft): 43
 Start/Stop Purge Time: 1205/1301
 Purge Rate (mL/min): 8000
 Total Purge Volume (L): 388

Sampling Date: 6/28/23
 Sampler's Name: AN
 Sample Collection Time: -
 Sample Purge Rate (mL/min): -
 Sample ID: -
 Laboratory Analyses: -

d = well diameter (inches); h = length of water column (feet)

Well Type: Flush Stick Up
 Well Lock: Yes No
 Well Cap Condition: Good Replace
 Well Tag Present: Yes No

Purge Method: Low-Flow Well Volume Other: -
 Sampling Method: Pump Discharge Other: -

QA/QC Collected? -
 QA/QC I.D. -

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|-----------------------------|------------|---------------------|----------|--|------------|------------------|---------------|----------------------|-------------------|---|
| 1205 | | | | | | | | | | begin pre purging |
| 1231 | 6.87 | 950.09 | -58.2 | 0.01 | 19.75 | 73 | 28.5 | 8000 | 168 | motor not filament stuck, had |
| 1236 | 6.85 | 953.71 | -93.0 | 0.00 | 18.90 | 57.6 | 28.8 | 8000 | 208 | to clean multiple times |
| 1241 | 6.85 | 959.95 | -71.8 | 4.28 | 19.68 | 108.3 AU | 28.1 | 8000 | 248 | had to remove filament |
| 1246 | 6.86 | 953.78 | -88.6 | 0.00 | 18.92 | 12.4 | 28.1 | 8000 | 288 | |
| 1251 | 6.86 | 965.59 | -78.3 | 0.24 | 18.97 | 50.1 | 28.1 | 8000 | 328 | |
| 1256 | 6.86 | 953.50 | -53.4 | 0.00 | 18.92 | 12.4 | 28.1 | 8000 | 348 | |
| 1301 | 6.86 | 954.07 | -53.4 | 0.00 | 18.96 | 8.32 | 28.1 | 8000 | 388 | |
| 6/28/23 AN | | | | | | | | | | |
| Stabilizing Criteria | +/- 0.1 SU | +/- 5% | | 0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater) | | < 5 NTUs | < 0.3 ft | > 100 mL < 250 mL | > 3L | |

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
 Site: Plant Hammond
 Well ID: PT-07
 Total Depth (ft): 48.6
 Depth to Water (ft): 24.3
 Well Diameter (in): 2
 Well Volume (gal) = 0.041d²h: 3.99
 Well Volume (L) = gal * 3.785: 15.10

Project No.: 6W6581G
 Location: AP-1
 Pump Type/Model: monsoon
 Tubing Material: poly
 Pump Intake Depth (ft): 43J
 Start/Stop Purge Time: 1303/1326
 Purge Rate (mL/min): 200
 Total Purge Volume (L): 5

Sampling Date: 01/28/23
 Sampler's Name: AN
 Sample Collection Time: -
 Sample Purge Rate (mL/min): -
 Sample ID: -
 Laboratory Analyses: -

d = well diameter (inches); h = length of water column (feet)

Well Type: Flush Stick Up
 Well Lock: Yes No
 Well Cap Condition: Good Replace
 Well Tag Present: Yes No

Purge Method: Low-Flow Well Volume Other: -
 Sampling Method: Pump Discharge Other: -

QA/QC Collected?
 QA/QC I.D.

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|-----------------------------|------------|---------------------|----------|--|------------|------------------|---------------|----------------------|-------------------|---|
| 1308 | 6.72 | 1046.8 | -68.3 | 0.02 | 20.5 | 14.6 | 25.8 | 200 | 1 | |
| 1313 | 6.69 | 1058.8 | -95.3 | 0.01 | 19.9 | 7.21 | 25.8 | 200 | 2 | |
| 1318 | 6.66 | 1073.6 | -65.1 | 0.02 | 21.46 | 6.25 | 25.5 | 200 | 3 | |
| 1323 | 6.60 | 1064.0 | -71.4 | 0.02 | 24.11 | 8.72 | 25.5 | 200 | 4 | |
| 1328 | 6.68 | 1045.1 | -64.1 | 0.02 | 22.27 | 4.15 | 25.5 | 200 | 5 | |
| | | | | | | | | | | |
| Stabilizing Criteria | +/- 0.1 SU | +/- 5% | | 0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater) | | < 5 NTUs | < 0.3 ft | > 100 mL < 250 mL | > 3L | |

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
 Site: Plant Hammond
 Well ID: PT-08
 Total Depth (ft): 422
 Depth to Water (ft): 227
 Well Diameter (in): 2
 Well Volume (gal) = 0.041d²h: 3.198
 Well Volume (L) = gal * 3.785: 12.104

Project No.: GW05816
 Location: AP-1
 Pump Type/Model: monsoon
 Tubing Material: poly
 Pump Intake Depth (ft): 32
 Start/Stop Purge Time: 0908/0940
 Purge Rate (mL/min): 250
 Total Purge Volume (L): 8

Sampling Date: 6/29/23
 Sampler's Name: AN
 Sample Collection Time: -
 Sample Purge Rate (mL/min): -
 Sample ID: -
 Laboratory Analyses: -

d = well diameter (inches); h = length of water column (feet)

Well Type: Flush Stick Up
 Well Lock: Yes No
 Well Cap Condition: Good Replace
 Well Tag Present: Yes No

Purge Method: Low-Flow Well Volume Other: -
 Sampling Method: Pump Discharge Other: -

QA/QC Collected? -
 QA/QC ID: -

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|------|---------|---------------------|----------|-----------|------------|------------------|---------------|---------------------|-------------------|---|
| 0915 | 6.63 | 1044.1 | -67.1 | 0.04 | 20.88 | 15.8 | 23.1 | 250 | 1.75 | Pre-purge for flow (~7 min) |
| 0920 | 6.67 | 1035.0 | -63.0 | 0.07 | 22.12 | 17.7 | 23.1 | 250 | 3 | |
| 0925 | 6.64 | 1032.0 | -91.1 | 0.07 | 21.93 | 12.62 | 23.1 | 250 | 4.25 | |
| 0930 | 6.64 | 1039.6 | -61.2 | 0.06 | 22.09 | 6.77 | 23.1 | 250 | 5.5 | |
| 0935 | 6.65 | 1037.5 | -59.7 | 0.05 | 22.00 | 5.71 | 23.1 | 250 | 6.75 | |
| 0940 | 6.65 | 1037.9 | -89.0 | 0.05 | 22.02 | 4.68 | 23.1 | 250 | 8 | |

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| | | | | | | | |
|-----------------------------|------------|--------|--|----------|----------|----------------------|------|
| Stabilizing Criteria | +/- 0.1 SU | +/- 5% | 0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater) | < 5 NTUs | < 0.3 ft | > 100 mL < 250 mL | > 3L |
|-----------------------------|------------|--------|--|----------|----------|----------------------|------|

GROUNDWATER SAMPLING LOG SHEET

| | | |
|---|---|---|
| Client: <u>Southern company</u> | Project No.: <u>GW16551</u> | Sampling Date: <u>01/27/13</u> |
| Site: <u>Plant Hammond</u> | Location: <u>Plant Hammond</u> | Sampler's Name: <u>AN</u> |
| Well ID: <u>PT-09</u> | Pump Type/Model: <u>Mega Monsoon pro</u> | Sample Collection Time: <u>-</u> |
| Total Depth (ft): <u>31</u> | Tubing Material: <u>poly</u> | Sample Purge Rate (mL/min): <u>-</u> |
| Depth to Water (ft): <u>14.65</u> | Pump Intake Depth (ft): <u>26</u> | Sample ID: <u>-</u> |
| Well Diameter (in): <u>2</u> | Start/Stop Purge Time: <u>0830/1123</u> | Laboratory Analyses: <u>-</u> |
| Well Volume (gal) = 0.041d ² h: <u>2.681</u> | Purge Rate (mL/min): <u>15,000, 250</u> | |
| Well Volume (L) = gal * 3.785: <u>10.14</u> | Total Purge Volume (L): <u>1458.75</u> | |
| <i>d = well diameter (inches); h = length of water column (feet)</i> | | |
| Well Type: Flush <input type="checkbox"/> <u>Stick Up</u> | Purge Method: Low-Flow <input type="checkbox"/> Well Volume <input type="checkbox"/> Other: <input type="checkbox"/> | QA/QC Collected? <input type="checkbox"/> |
| Well Lock: <input checked="" type="radio"/> Yes <input type="radio"/> No | Sampling Method: Pump Discharge <input checked="" type="checkbox"/> Other: <input type="checkbox"/> | QA/QC I.D. <input type="checkbox"/> |
| Well Cap Condition: <input checked="" type="radio"/> Good <input type="radio"/> Replace | All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes <input type="checkbox"/> No <input type="checkbox"/> | |
| Well Tag Present: <input checked="" type="radio"/> Yes <input type="radio"/> No | | |

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|-----------------------------|------------|---------------------|----------|--|------------|------------------|---------------|---------------------|-------------------|---|
| 0852 | 6.72 | 8165.25 | 2.9 | 0.03 | 18.39 | 3884 AU | 15.35 | 15,000 | 330 | pre-purged for 20 min |
| 0858 | 6.74 | 8188.23 | 8.7 | 0.02 | 18.21 | 2747 AU | 15.3 | 15,000 | 405 | |
| 0902 | 6.74 | 8167.77 | -5.7 | 0.01 | 18.21 | 2249 AU | 15.3 | 15,000 | 480 | |
| 0906 | 6.75 | 8167.44 | 12.4 | 0.01 | 18.20 | 723 AU | 15.3 | 15,000 | 540 | |
| 0911 | 6.75 | 8165.02 | -2.0 | 0.01 | 18.20 | 1205 AU | 15.3 | 15,000 | 615 | |
| 0916 | 6.75 | 8168.97 | 14.1 | 0.01 | 18.21 | 128 AU | 15.3 | 15,000 | 690 | |
| 0921 | 6.75 | 8164.78 | 16.3 | 0.01 | 18.23 | 691 AU | 15.3 | 15,000 | 765 | |
| 0926 | 6.75 | 8167.14 | 12.3 | 0.00 | 18.25 | 37.8 | 15.3 | 15,000 | 840 | |
| 0931 | 6.75 | 8168.88 | 16.6 | 0.00 | 18.25 | 37.3 | 15.3 | 15,000 | 915 | |
| 0936 | 6.75 | 8167.76 | 15.7 | 0.00 | 18.21 | 7.3 | 15.3 | 15,000 | 990 | |
| 0941 | 6.75 | 8166.15 | 8.2 | 0.00 | 18.26 | 57 | 15.3 | 15,000 | 1065 | |
| 0946 | 6.75 | 8170.58 | 17.5 | 0.00 | 18.26 | 23.8 | 15.3 | 15,000 | 1140 | |
| 0951 | 6.75 | 8168.96 | 18.0 | 0.00 | 18.26 | 21.2 | 15.3 | 15,000 | 1215 | |
| 0956 | 6.75 | 8169.01 | 18.5 | 0.00 | 18.25 | 14.3 | 15.3 | 15,000 | 1290 | |
| 1001 | 6.75 | 8167.45 | 18.4 | 0.00 | 18.26 | 11.9 | 15.3 | 15,000 | 1365 | |
| 1006 | 6.75 | 8167.04 | 16.4 | 0.00 | 18.16 | 8.37 | 15.3 | 15,000 | 1440 | |
| 1011 | 6.76 | 8164.40 | 19.8 | 0.01 | 18.19 | 23.7 | 15.3 | 250 | 1441.25 | switch to low flow to stabilize |
| 1016 | 6.72 | 8248.81 | 15.3 | 0.04 | 21.58 | 17.4 | 14.9 | 250 | 1442.5 | |
| 1023 | 6.74 | 8167.19 | 11.8 | 0.00 | 19.08 | 36.1 | 14.9 | 250 | 1443.75 | |
| Stabilizing Criteria | +/- 0.1 SU | +/- 5% | | 0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater) | | < 5 NTUs | < 0.3 ft | > 100 mL < 250 mL | > 3L | |

GROUNDWATER SAMPLING LOG SHEET

Client: Southern Company
 Site: Plant Hammond
 Well ID: PT-09
 Total Depth (ft): 31
 Depth to Water (ft): 14.65
 Well Diameter (in): 2
 Well Volume (gal) = 0.041d²h: 2.08
 Well Volume (L) = gal * 3.785: 10.14

Project No.: 6W0581
 Location: Plant Hammond
 Pump Type/Model: Mega Monsoon Pro
 Tubing Material: Poly
 Pump Intake Depth (ft): 26
 Start/Stop Purge Time: 0830 / 1123
 Purge Rate (mL/min): 15000, 250
 Total Purge Volume (L): 1458.75

Sampling Date: 06/27/2023
 Sampler's Name: AN
 Sample Collection Time: -
 Sample Purge Rate (mL/min): -
 Sample ID: -
 Laboratory Analyses: -

d = well diameter (inches); h = length of water column (feet)

Well Type: Flush Stick Up
 Well Lock: Yes No
 Well Cap Condition: Good Replace
 Well Tag Present: Yes No

Purge Method: Low-Flow Well Volume Other: -
 Sampling Method: Pump Discharge Other: -

QA/QC Collected? -
 QA/QC ID: -

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|-----------------------------|------------|---------------------|----------|--|------------|------------------|---------------|---------------------|-------------------|---|
| 1028 | 6.74 | 8104.55 | 12.6 | 0.00 | 18.96 | 30.3 | 14.9 | 250 | 1445 | |
| 1033 | 6.74 | 8104.37 | 12.8 | 0.00 | 18.97 | 25.4 | 14.9 | 250 | 1446.25 | |
| 1038 | 6.75 | 8102.81 | 13.0 | 0.00 | 18.89 | 21.0 | 14.9 | 250 | 1447.5 | |
| 1043 | 6.74 | 8103.05 | 1.3 | 0.00 | 18.85 | 18.9 | 14.9 | 250 | 1448.75 | |
| 1048 | 6.75 | 8103.71 | 12.9 | 0.00 | 18.88 | 19.9 | 14.9 | 250 | 1450 | |
| 1053 | 6.75 | 8103.74 | 1.7 | 0.00 | 18.84 | 14.2 | 14.9 | 250 | 1451.25 | |
| 1058 | 6.75 | 8103.80 | 0.4 | 0.00 | 18.90 | 13.2 | 14.9 | 250 | 1452.5 | |
| 1103 | 6.75 | 8103.59 | 0.4 | 0.00 | 18.90 | 9.57 | 14.9 | 250 | 1453.75 | |
| 1108 | 6.75 | 8105.55 | 12.7 | 0.00 | 18.94 | 7.39 | 14.9 | 250 | 1455 | |
| 1113 | 6.75 | 8104.61 | 2.6 | 0.00 | 18.88 | 4.26 | 14.9 | 250 | 1456.25 | |
| 1118 | 6.75 | 8104.98 | 13.6 | 0.00 | 18.97 | 3.93 | 14.9 | 250 | 1457.5 | |
| 1123 | 6.75 | 8105.03 | 14.3 | 0.00 | 18.84 | 3.03 | 14.9 | 250 | 1458.75 | |
| AN 10/27/23 | | | | | | | | | | |
| Stabilizing Criteria | +/- 0.1 SU | +/- 5% | | 0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater) | | < 5 NTUs | < 0.3 ft | > 100 mL < 250 mL | > 3L | |

GROUNDWATER SAMPLING LOG SHEET

| | | |
|--|--|---|
| Client: <u>SCS</u> | Project No.: <u>CW165816</u> | Sampling Date: <u>06/27/23</u> |
| Site: <u>Plant Hammond</u> | Location: <u>AD-2</u> | Sampler's Name: <u>AN</u> |
| Well ID: <u>PT-10</u> | Pump Type/Model: <u>monsoon</u> | Sample Collection Time: <u>-</u> |
| Total Depth (ft): <u>30.7</u> | Tubing Material: <u>poly</u> | Sample Purge Rate (mL/min): <u>-</u> |
| Depth to Water (ft): <u>14.80</u> | Pump Intake Depth (ft): <u>2.5</u> | Sample ID: <u>-</u> |
| Well Diameter (in): <u>2</u> | Start/Stop Purge Time: <u>1435/1618</u> | Laboratory Analyses: <u>-</u> |
| Well Volume (gal) = 0.041d ² h: <u>2.61</u> | Purge Rate (mL/min): <u>9000</u> | |
| Well Volume (L) = gal * 3.785: <u>9.88</u> | Total Purge Volume (L): <u>585</u> | |
| <i>d = well diameter (inches); h = length of water column (feet)</i> | | |
| Well Type: Flush <input type="checkbox"/> Stick Up <input checked="" type="checkbox"/> | Purge Method: Low-Flow <input type="checkbox"/> Well Volume <input type="checkbox"/> Other: <input type="checkbox"/> | QA/QC Collected? <input type="checkbox"/> |
| Well Lock: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Sampling Method: Pump Discharge <input type="checkbox"/> Other: <input type="checkbox"/> | QA/QC I.D. <input type="checkbox"/> |
| Well Cap Condition: Good <input checked="" type="checkbox"/> Replace <input type="checkbox"/> | All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No | |
| Well Tag Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|-----------------------------|-------------------|---------------------|--------------|--|--------------|--------------------|--------------------|------------------------------------|-------------------|---|
| <u>1435</u> | | | | | | | | | | <u>Start purge, purged dry, waited + began to purge</u> |
| <u>1450</u> | | | | | | | | | | |
| <u>1504</u> | <u>6.93</u> | <u>856.25</u> | <u>-34.9</u> | <u>0.25</u> | <u>18.79</u> | <u>89.1</u> | <u>16.8</u> | <u>9000</u> | <u>180</u> | |
| <u>1509</u> | <u>6.94</u> | <u>855.27</u> | <u>-25.4</u> | <u>0.30</u> | <u>18.88</u> | <u>44.8</u> | <u>16.9</u> | <u>9000</u> | <u>225</u> | |
| <u>1514</u> | <u>6.93</u> | <u>851.86</u> | <u>-22.8</u> | <u>0.37</u> | <u>18.63</u> | <u>36.4</u> | <u>17.45</u> | <u>9000</u> | <u>270</u> | |
| <u>1519</u> | <u>6.93</u> | <u>856.43</u> | <u>-48.9</u> | <u>0.27</u> | <u>18.53</u> | <u>94.2</u> | <u>17.6</u> | <u>9000</u> | <u>315</u> | |
| <u>1524</u> | <u>6.91</u> | <u>859.79</u> | <u>-46.4</u> | <u>0.17</u> | <u>18.58</u> | <u>29.5</u> | <u>17.3</u> | <u>9000</u> | <u>360</u> | |
| <u>1529</u> | | | | | | | | <u>9000</u> | <u>405</u> | <u>Motor broke, had to replace</u> |
| <u>1603</u> | <u>6.91</u> | <u>856.85</u> | <u>-45.5</u> | <u>0.22</u> | <u>18.01</u> | <u>87.5AU</u> | <u>19.8</u> | <u>9000</u> | <u>450</u> | |
| <u>1608</u> | <u>6.90</u> | <u>857.92</u> | <u>-38.9</u> | <u>0.12</u> | <u>17.89</u> | <u>84.4</u> | <u>19.05</u> | <u>9000</u> | <u>495</u> | |
| <u>1613</u> | <u>6.89</u> | <u>858.38</u> | <u>-38.5</u> | <u>0.12</u> | <u>17.85</u> | <u>18.3</u> | <u>19.1</u> | <u>9000</u> | <u>540</u> | |
| <u>1618</u> | <u>6.88</u> | <u>850.15</u> | <u>-11.1</u> | <u>0.12</u> | <u>17.85</u> | <u>7.09</u> | <u>19.1</u> | <u>9000</u> | <u>585</u> | |
| <u>AN 6/27/23</u> | | | | | | | | | | |
| Stabilizing Criteria | +/- 0.1 SU | +/- 5% | | <small>0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)</small> | | < 5 NTUs | < 0.3 ft | > 100 mL < 250 mL | > 3L | |

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
 Site: Plant Hammond
 Well ID: MW-53
 Total Depth (ft): 36.6
 Depth to Water (ft): 15.8
 Well Diameter (in): 2
 Well Volume (gal) = 0.041d²h: 3.41
 Well Volume (L) = gal * 3.785: 12.91

Project No.: GW05816
 Location: AD-2
 Pump Type/Model: monsoon
 Tubing Material: POLY
 Pump Intake Depth (ft): 31.6
 Start/Stop Purge Time: 1058/1751
 Purge Rate (mL/min): 300
 Total Purge Volume (L): 14.9

Sampling Date: 6/29/23
 Sampler's Name: AN
 Sample Collection Time: -
 Sample Purge Rate (mL/min): -
 Sample ID: -
 Laboratory Analyses: -

d = well diameter (inches); h = length of water column (feet)

Well Type: Flush **Stick Up**
 Well Lock: **Yes** No
 Well Cap Condition: **Good** Replace
 Well Tag Present: **Yes** No

Purge Method: **Low-Flow** Well Volume Other: -
 Sampling Method: Pump Discharge Other: -

QA/QC Collected? -
 QA/QC I.D. -

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|-----------------------------|------------|---------------------|----------|--|------------|------------------|---------------|----------------------|-------------------|---|
| 1701 | 6.67 | 979.82 | 19.4 | 0.15 | 21.17 | 21.4 | 16.3 | 300 | 0.9 | pre purge for flow |
| 1706 | 6.57 | 910.53 | 19.4 | 0.09 | 22.62 | 42.2 | 16.0 | 300 | 2.4 | |
| 1711 | 6.53 | 886.85 | 14.4 | 0.00 | 22.09 | 41.9 | 16.0 | 300 | 3.9 | |
| 1716 | 6.52 | 876.81 | 17.0 | 0.04 | 21.33 | 45.0 | 16.0 | 300 | 5.4 | |
| 1721 | 6.52 | 877.62 | 8.4 | 0.02 | 19.62 | 58.0 | 16.0 | 300 | 6.9 | |
| 1726 | 6.51 | 871.99 | 14.1 | 0.01 | 19.46 | 18.0 | 16.0 | 300 | 7.4 | |
| 1731 | 6.64 | 953.33 | 8.5 | 0.00 | 18.55 | 31.6 | 16.0 | 300 | 8.9 | |
| 1736 | 6.64 | 952.14 | 15.4 | 0.00 | 18.57 | 11.78 | 16.0 | 300 | 10.4 | |
| 1741 | 6.64 | 949.89 | 13.5 | 0.00 | 18.52 | 7.09 | 16.0 | 300 | 11.9 | |
| 1746 | 6.64 | 950.31 | 6.2 | 0.00 | 18.57 | 5.15 | 16.0 | 300 | 13.4 | |
| 1751 | 6.64 | 951.32 | 5.6 | 0.00 | 18.64 | 4.93 | 16.0 | 300 | 14.9 | |
| <u>6/29/23 AN</u> | | | | | | | | | | |
| Stabilizing Criteria | +/- 0.1 SU | +/- 5% | | 0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater) | | < 5 NTUs | < 0.3 ft | > 100 mL < 250 mL | > 3L | |

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
 Site: Plant Hammond
 Well ID: MW-S4
 Total Depth (ft): 38.8
 Depth to Water (ft): 23.3
 Well Diameter (in): 2
 Well Volume (gal) = 0.041d²h: 2.54
 Well Volume (L) = gal * 3.785: 9.61

Project No.: GW105816
 Location: AP-2
 Pump Type/Model: monsoon
 Tubing Material: poly
 Pump Intake Depth (ft): 33.8J
 Start/Stop Purge Time: 1030/1116
 Purge Rate (mL/min): 10000
 Total Purge Volume (L): 460

Sampling Date: 6/29/23
 Sampler's Name: AN
 Sample Collection Time: -
 Sample Purge Rate (mL/min): -
 Sample ID: -
 Laboratory Analyses: -

d = well diameter (inches); h = length of water column (feet)

Well Type: Flush Stick Up
 Well Lock: Yes No
 Well Cap Condition: Good Replace
 Well Tag Present: Yes No

Purge Method: Low-Flow Well Volume Other: -
 Sampling Method: Pump Discharge Other: -

QA/QC Collected? -
 QA/QC I.D. -

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|-----------------------------|------------|---------------------|----------|--|------------|------------------|---------------|----------------------|-------------------|---|
| 1051 | 6.77 | 743.50 | -1.8 | 0.02 | 20.88 | 8.03 AV | 27.3 | 10000 | 210 | |
| 1056 | 6.77 | 745.92 | -28.3 | 0.03 | 20.44 | average | 27.3 | 10000 | 260 | |
| 1101 | 6.78 | 753.73 | -27.2 | 0.02 | 20.30 | 68.6 | 28.0 | 10000 | 310 | |
| 1106 | 6.78 | 756.16 | -8.2 | 0.01 | 20.35 | 53.0 | 28.0 | 10000 | 360 | |
| 1111 | 6.78 | 759.90 | -8.7 | 0.02 | 20.30 | 12.94 | 28.0 | 10000 | 410 | |
| 1116 | 6.77 | 747.9 | -26.1 | 0.08 | 20.30 | 8.58 m3 | 28.0 | 10000 | 460 | |
| AN 6/29/23 | | | | | | | | | | |
| <hr/> | | | | | | | | | | |
| Stabilizing Criteria | +/- 0.1 SU | +/- 5% | | 0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater) | | < 5 NTUs | < 0.3 ft | > 100 mL < 250 mL | > 3L | |

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
 Site: Plant Hammond
 Well ID: MW-54
 Total Depth (ft): 38.8
 Depth to Water (ft): 23.3
 Well Diameter (in): 2
 Well Volume (gal) = 0.041d²h: 2.54
 Well Volume (L) = gal * 3.785: 9.61

Project No.: GW05816
 Location: AD-1
 Pump Type/Model: monsoon
 Tubing Material: poly
 Pump Intake Depth (ft): 33.8
 Start/Stop Purge Time: 1125/1237
 Purge Rate (mL/min): 250
 Total Purge Volume (L): 18

Sampling Date: 01/29/23
 Sampler's Name: AN
 Sample Collection Time: -
 Sample Purge Rate (mL/min): -
 Sample ID: -
 Laboratory Analyses: -

d = well diameter (inches); h = length of water column (feet)

Well Type: Flush Stick Up
 Well Lock: Yes No
 Well Cap Condition: Good Replace
 Well Tag Present: Yes No

Purge Method: Low-Flow Well Volume Other: -
 Sampling Method: Pump Discharge Other: -

QA/QC Collected?
 QA/QC I.D.

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|------|---------|---------------------|----------|-----------|------------|------------------|---------------|---------------------|-------------------|---|
| 1127 | 6.69 | 748.01 | -2.0 | 0.30 | 22.48 | 11.5 | 23.0 | 250 | 0.5 | |
| 1137 | 6.73 | 750.46 | -22.8 | 0.15 | 24.17 | 12.80 | 23.0 | 250 | 1.75 | |
| 1137 | 6.74 | 739.19 | -20.2 | 0.12 | 24.78 | 11.44 | 23.0 | 250 | 3 | |
| 1142 | 6.74 | 706.06 | -26.6 | 0.11 | 23.82 | 37.7 | 23.0 | 250 | 4.25 | |
| 1147 | 6.71 | 708.108 | -26.6 | 0.12 | 23.33 | 67.0 | 23.0 | 250 | 8.5 | |
| 1152 | 6.71 | 718.13 | -28.5 | 0.11 | 24.04 | 56.1 | 23.0 | 250 | 6.75 | |
| 1157 | 6.71 | 723.43 | -29.9 | 0.11 | 25.29 | 50.4 | 23.0 | 250 | 8 | |
| 1202 | 6.72 | 707.70 | -8.4 | 0.10 | 25.15 | 7.0 | 23.0 | 250 | 9.25 | |
| 1207 | 6.70 | 704.43 | -23.2 | 0.14 | 23.18 | 58.1 | 23.0 | 250 | 10.5 | |
| 1212 | 6.72 | 728.86 | -24.4 | 0.08 | 23.18 | 27.0 | 23.0 | 250 | 11.75 | |
| 1217 | 6.67 | 684.7 | -13.5 | 0.28 | 23.64 | 605.0 | 23.0 | 250 | 13 | |
| 1222 | 6.73 | 711.77 | -17.7 | 0.11 | 22.27 | 108.0 | 23.0 | 250 | 14.25 | |
| 1227 | 6.77 | 731.69 | -37.4 | 0.02 | 21.87 | 11.9 | 23.0 | 250 | 15.5 | |
| 1232 | 6.77 | 740.76 | -16.0 | 0.09 | 21.87 | 5.18 | 23.0 | 250 | 16.75 | |
| 1237 | 6.77 | 746.91 | -36.5 | 0.02 | 21.85 | 3.54 | 21.85 | 250 | 18 | |

AN 01/29/23

Stabilizing Criteria

+/- 0.1 SU

+/- 5%

0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)

< 5 NTUs

< 0.3 ft

> 100 mL
< 250 mL

> 3L

EQUIPMENT CALIBRATION LOG

Field Technician: Alana Meely

Date: 0127123

Time (start): 0735

Time (finish): 0755

smarTroll SN: 883553

Turbidity Meter Type: LaMote 2020we

SN: 7007-1416

Weather Conditions: 66-89°, sunny

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-------------------|---|----------|
| Specific Conductance (µS/cm) | 22250153 | 27.06 | 4490 | 4561.1 | 4486.0 | +/- 5% | <input checked="" type="radio"/> Yes No | |
| pH (4) | 11/23 | | 4.00 | 4.18 | 3.99 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (4) check | — | — | 4.00 | — | — | +/- 0.1 SU | Yes No | |
| pH (7) | 2210893 11/23 | 26.72 | 7.00 | 6.97 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (7) check | — | — | 7.00 | — | — | +/- 0.1 SU | Yes No | |
| pH (10) | 21320202 12/23 | 26.92 | 10.00 | 9.89 | 10.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (10) check | — | — | 10.00 | — | — | +/- 0.1 SU | Yes No | |
| ORP (mV) | 2390144 11/23 | 25.06 | 228 | 217.0 | 228.2 | +/- 20mV | <input checked="" type="radio"/> Yes No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 98.78% | 99.78% | +/- 6% saturation | <input checked="" type="radio"/> Yes No | |
| Turbidity 0 NTU | | | 0 | 0.00 | -0.01 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 1 NTU | | | 1.00 | 0.37 | 0.99 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 10 NTU | | | 10.00 | 12.42 | 9.87 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |

EQUIPMENT CALIBRATION LOG

Field Technician: Alan Anweely

Date: 6/17/23

Time (start): 0730

Time (finish): 0800

smarTroll SN: 883553

Turbidity Meter Type: LaMote 2020we

SN: 7007-1416

Weather Conditions: 62-92° sunny

Facility and Unit: Plant Hammond

Project No: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|--------------------|---|----------|
| Specific Conductance (µS/cm) | 22250153 | 24.51 | 4490 | 4435.3 | 4490.8 | +/- 5 % | <input checked="" type="radio"/> Yes No | |
| pH (4) | 11/23 | | 4.00 | 4.21 | 3.99 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (4) check | - | - | 4.00 | - | - | +/- 0.1 SU | Yes No | |
| pH (7) | 2210893 11/23 | 23.80 | 7.00 | 7.00 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (7) check | - | - | 7.00 | - | - | +/- 0.1 SU | Yes No | |
| pH (10) | 21320202 12/23 | 24.24 | 10.00 | 9.85 | 10.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (10) check | - | - | 10.00 | - | - | +/- 0.1 SU | Yes No | |
| ORP (mV) | 21390144 11/23 | 22.83 | 228 | 231 | 228.4 | +/- 20mV | <input checked="" type="radio"/> Yes No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 98.60 | 100.52 | +/- 6 % saturation | <input checked="" type="radio"/> Yes No | |
| Turbidity 0 NTU | | | 0 | -0.02 | 0.00 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 1 NTU | | | 1.00 | 0.62 | 0.75 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 10 NTU | | | 10.00 | 12.35 | 9.96 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |

EQUIPMENT CALIBRATION LOG

Field Technician: Anana Neely

Date: 6/29/23

Time (start): 0735

Time (finish): 0755

smarTroll SN: 883553

Turbidity Meter Type: LaMotte 2020we

SN: 7007-1416

Weather Conditions: 65-94° sunny

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|--------------------|---|--|
| Specific Conductance (µS/cm) | 22250153 | 25.95 | 4490 | 4478.9 | 4494.5 | +/- 5 % | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (4) | 11/23 | | 4.00 | 4.24 | 3.99 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (4) check | - | - | 4.00 | - | - | +/- 0.1 SU | <input type="radio"/> Yes <input type="radio"/> No | |
| pH (7) | 2216893 11/23 | 25.14 | 7.00 | 6.91 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (7) check | - | | - | 7.00 | - | - | +/- 0.1 SU | <input type="radio"/> Yes <input type="radio"/> No |
| pH (10) | 21320202 12/23 | 25.92 | 10.00 | 9.86 | 10.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (10) check | - | | - | 10.00 | - | - | +/- 0.1 SU | <input type="radio"/> Yes <input type="radio"/> No |
| ORP (mV) | 21390144 11/23 | 23.50 | 228 | 226.2 | 228.0 | +/- 20mV | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 99.65 | 100.48 | +/- 6 % saturation | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 0 NTU | | | 0 | 0.27 | 0.00 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 1 NTU | | | 1.00 | 0.42 | 0.95 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 10 NTU | | | 10.00 | 9.82 | 10.04 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |

APPENDIX D

Certified Well Survey Data

| Well ID | Casing Northing | Casing Easting | Top of Casing Elevation | Nail or Pad Northing | Nail or Pad Easting | Nail or Pad Elevation | Description |
|------------------|-----------------|----------------|-------------------------|----------------------|---------------------|-----------------------|-------------|
| MW-53 | 1548835.51 | 1942399.62 | 580.59 | 1548835.08 | 1942400.25 | 577.64 | NAIL ON PAD |
| PT-09 | 1549049.74 | 1942393.11 | 580.35 | 1549049.80 | 1942394.19 | 577.33 | NAIL ON PAD |
| PT-10 | 1549040.34 | 1942413.88 | 580.44 | 1549040.30 | 1942415.26 | 577.39 | NAIL ON PAD |
| | | | | | | | |
| Benchmark | Northing | Easting | Elevation | | | | |
| BM-H3 | 1548237.413 | 1941013.571 | 574.63 | | | | |

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION OF THE NAIL IN THE CONCRETE PAD & THE PVC WELL CASING. DATE OF FIELD SURVEY & INSPECTION: 07/11/2023. FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NAD'83, 0.01 VERTICAL-NAVD '88. EQUIPMENT USED FOR HORIZONTAL LOCATION: TRIMBLE R12 RTK GPS & TRIMBLE S5 ROBOTIC TOTAL STATION. THE VERTICAL LOCATION OF EACH SURVEYED POINT WAS ESTABLISHED BASED UPON LEVEL RUNS WITH A DIGITAL LEVEL LOOP FROM VERTICAL CONTROL ESTABLISHED BY ON-SITE BENCHMARK BM-H3 SET BY GEL SOLUTIONS USING A TRIMBLE DINI LEVEL

Derek Bradner

7/17/2023



COA - LS003119
Exp. 12/31/2023

| Well ID | Casing Northing | Casing Easting | Top of Casing | Nail or Pad Northing | Nail or Pad Easting | Nail or Pad Elevation | Description |
|------------------|-----------------|----------------|------------------|----------------------|---------------------|-----------------------|-------------|
| MW-54 | 1548699.509 | 1940805.028 | 592.66 | 1548699.426 | 1940804.22 | 592.977 | Nail on Pad |
| PT-07 | 1548675.239 | 1940933.391 | 591.75 | 1548675.251 | 1940932.71 | 591.998 | Nail on Pad |
| PT-08 | 1548666.824 | 1940929.582 | 591.83 | 1548666.667 | 1940928.983 | 592.104 | Nail on Pad |
| | | | | | | | |
| Benchmark | Northing | Easting | Elevation | | | | |
| BM-H3 | 1548237.413 | 1941013.571 | 574.63 | | | | |

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION OF THE NAIL IN THE CONCRETE PAD & THE PVC WELL CASING. DATE OF FIELD SURVEY & INSPECTION: 08/29/2023. FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NAD'83, 0.01 VERTICAL-NAVD '88. EQUIPMENT USED FOR HORIZONTAL LOCATION: TRIMBLE R12 RTK GPS & TRIMBLE S5 ROBOTIC TOTAL STATION. THE VERTICAL LOCATION OF EACH SURVEYED POINT WAS ESTABLISHED BASED UPON LEVEL RUNS WITH A DIGITAL LEVEL LOOP FROM VERTICAL CONTROL ESTABLISHED BY ON-SITE BENCHMARK BM-H3 SET BY GEL SOLUTIONS USING A TRIMBLE DINI LEVEL

Derek Bradner

8/30/2023



COA - LS003119
Exp. 12/31/2023

APPENDIX B

Baseline Analytical Laboratory Results and Field Sampling Forms

Laboratory Analytical Reports



July 28, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92677694

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on July 17, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-1

Pace Project No.: 92677694

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1

Pace Project No.: 92677694

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------|--------|----------------|----------------|
| 92677694001 | HAM-HGWC-8 | Water | 07/13/23 10:35 | 07/17/23 12:30 |
| 92677694002 | HAM-PT-09 | Water | 07/13/23 12:47 | 07/17/23 12:30 |
| 92677694003 | HAM-PT-10 | Water | 07/13/23 14:15 | 07/17/23 12:30 |
| 92677694004 | HAM-PT-07 | Water | 07/13/23 16:22 | 07/17/23 12:30 |
| 92677694005 | HAM-PT-08 | Water | 07/13/23 17:51 | 07/17/23 12:30 |
| 92677694006 | HAM-AP1-FD-01 | Water | 07/13/23 00:00 | 07/17/23 12:30 |
| 92677694007 | HAM-AP1-FB-01 | Water | 07/17/23 08:40 | 07/17/23 12:30 |
| 92677694008 | HAM-HGWC-13 | Water | 07/17/23 11:47 | 07/17/23 12:30 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
 Pace Project No.: 92677694

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------|------------------------|----------|-------------------|
| 92677694001 | HAM-HGWC-8 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 12 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | YEG | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92677694002 | HAM-PT-09 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 12 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | YEG | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92677694003 | HAM-PT-10 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 12 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92677694004 | HAM-PT-07 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 12 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92677694005 | HAM-PT-08 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 12 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92677694006 | HAM-AP1-FD-01 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 12 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1

Pace Project No.: 92677694

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------|------------------------|----------|-------------------|
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92677694007 | HAM-AP1-FB-01 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 12 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92677694008 | HAM-HGWC-13 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 12 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92677694

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|-----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92677694001 | HAM-HGWC-8 | | | | | |
| | Performed by | CUSTOME | | | 07/17/23 17:16 | |
| | | R | | | | |
| | pH | 6.65 | Std. Units | | 07/17/23 17:16 | |
| EPA 6010D | Manganese | 0.28 | mg/L | 0.040 | 07/20/23 15:39 | |
| EPA 6010D | Potassium | 6.9 | mg/L | 0.50 | 07/20/23 15:39 | |
| EPA 6010D | Sodium | 8.8 | mg/L | 1.0 | 07/20/23 15:39 | M1 |
| EPA 6010D | Calcium | 107 | mg/L | 1.0 | 07/20/23 15:39 | M1 |
| EPA 6010D | Magnesium | 14.9 | mg/L | 0.050 | 07/20/23 15:39 | M1 |
| EPA 6010D | Iron | 0.27 | mg/L | 0.040 | 07/25/23 15:53 | |
| EPA 6020B | Barium | 0.047 | mg/L | 0.0050 | 07/19/23 17:55 | |
| EPA 6020B | Beryllium | 0.000073J | mg/L | 0.00050 | 07/19/23 17:55 | |
| EPA 6020B | Boron | 2.0 | mg/L | 0.20 | 07/21/23 16:37 | |
| EPA 6020B | Cadmium | 0.00031J | mg/L | 0.00050 | 07/19/23 17:55 | |
| EPA 6020B | Cobalt | 0.0015J | mg/L | 0.0050 | 07/19/23 17:55 | |
| EPA 6020B | Lithium | 0.0015J | mg/L | 0.030 | 07/19/23 17:55 | |
| EPA 6020B | Molybdenum | 0.30 | mg/L | 0.010 | 07/19/23 17:55 | |
| EPA 6020B | Thallium | 0.00026J | mg/L | 0.0010 | 07/19/23 17:55 | |
| SM 2540C-2015 | Total Dissolved Solids | 513 | mg/L | 25.0 | 07/18/23 15:24 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 136 | mg/L | 5.0 | 07/19/23 19:16 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 136 | mg/L | 5.0 | 07/19/23 19:16 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 47.9 | mg/L | 1.0 | 07/19/23 03:12 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.49 | mg/L | 0.10 | 07/19/23 03:12 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 163 | mg/L | 3.0 | 07/19/23 09:10 | |
| 92677694002 | HAM-PT-09 | | | | | |
| | Performed by | CUSTOME | | | 07/17/23 17:16 | |
| | | R | | | | |
| | pH | 6.57 | Std. Units | | 07/17/23 17:16 | |
| EPA 6010D | Iron | 0.33 | mg/L | 0.040 | 07/25/23 16:08 | |
| EPA 6010D | Manganese | 0.79 | mg/L | 0.040 | 07/20/23 15:59 | |
| EPA 6010D | Potassium | 6.8 | mg/L | 0.50 | 07/20/23 15:59 | |
| EPA 6010D | Sodium | 10.6 | mg/L | 1.0 | 07/20/23 15:59 | |
| EPA 6010D | Calcium | 110 | mg/L | 1.0 | 07/20/23 15:59 | |
| EPA 6010D | Magnesium | 15.6 | mg/L | 0.050 | 07/20/23 15:59 | |
| EPA 6020B | Antimony | 0.0027J | mg/L | 0.0030 | 07/19/23 18:19 | |
| EPA 6020B | Barium | 0.053 | mg/L | 0.0050 | 07/19/23 18:19 | |
| EPA 6020B | Beryllium | 0.000077J | mg/L | 0.00050 | 07/19/23 18:19 | |
| EPA 6020B | Boron | 2.1 | mg/L | 0.20 | 07/21/23 16:55 | |
| EPA 6020B | Cobalt | 0.0045J | mg/L | 0.0050 | 07/19/23 18:19 | |
| EPA 6020B | Lithium | 0.0013J | mg/L | 0.030 | 07/19/23 18:19 | |
| EPA 6020B | Molybdenum | 0.065 | mg/L | 0.010 | 07/19/23 18:19 | |
| SM 2540C-2015 | Total Dissolved Solids | 534 | mg/L | 25.0 | 07/18/23 15:24 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 144 | mg/L | 5.0 | 07/19/23 19:26 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 144 | mg/L | 5.0 | 07/19/23 19:26 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 55.3 | mg/L | 1.0 | 07/19/23 03:27 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.24 | mg/L | 0.10 | 07/19/23 03:27 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 160 | mg/L | 3.0 | 07/19/23 09:53 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92677694

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92677694003 | HAM-PT-10 | | | | | |
| | Performed by | CUSTOMER | | | 07/17/23 17:16 | |
| | pH | 7.01 | Std. Units | | 07/17/23 17:16 | |
| EPA 6010D | Manganese | 3.5 | mg/L | 0.040 | 07/20/23 16:14 | |
| EPA 6010D | Potassium | 7.1 | mg/L | 0.50 | 07/20/23 16:14 | |
| EPA 6010D | Sodium | 10.5 | mg/L | 1.0 | 07/20/23 16:14 | |
| EPA 6010D | Calcium | 127 | mg/L | 1.0 | 07/20/23 16:14 | |
| EPA 6010D | Magnesium | 16.8 | mg/L | 0.050 | 07/20/23 16:14 | |
| EPA 6010D | Iron | 3.1 | mg/L | 0.040 | 07/25/23 16:12 | |
| EPA 6020B | Barium | 0.074 | mg/L | 0.0050 | 07/19/23 18:25 | |
| EPA 6020B | Boron | 2.2 | mg/L | 0.20 | 07/21/23 17:01 | |
| EPA 6020B | Cobalt | 0.0026J | mg/L | 0.0050 | 07/19/23 18:25 | |
| EPA 6020B | Lithium | 0.0014J | mg/L | 0.030 | 07/19/23 18:25 | |
| EPA 6020B | Molybdenum | 0.10 | mg/L | 0.010 | 07/19/23 18:25 | |
| SM 2540C-2015 | Total Dissolved Solids | 557 | mg/L | 25.0 | 07/18/23 15:24 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 185 | mg/L | 5.0 | 07/20/23 16:41 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 185 | mg/L | 5.0 | 07/20/23 16:41 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 67.2 | mg/L | 1.0 | 07/19/23 04:10 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.33 | mg/L | 0.10 | 07/19/23 04:10 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 145 | mg/L | 3.0 | 07/19/23 10:07 | |
| 92677694004 | HAM-PT-07 | | | | | |
| | Performed by | CUSTOMER | | | 07/17/23 17:16 | |
| | pH | 6.76 | Std. Units | | 07/17/23 17:16 | |
| EPA 6010D | Manganese | 8.2 | mg/L | 0.040 | 07/20/23 16:19 | |
| EPA 6010D | Potassium | 6.0 | mg/L | 0.50 | 07/20/23 16:19 | |
| EPA 6010D | Sodium | 6.1 | mg/L | 1.0 | 07/20/23 16:19 | |
| EPA 6010D | Calcium | 168 | mg/L | 1.0 | 07/20/23 16:19 | |
| EPA 6010D | Magnesium | 18.5 | mg/L | 0.050 | 07/20/23 16:19 | |
| EPA 6010D | Iron | 23.8 | mg/L | 0.040 | 07/25/23 16:17 | |
| EPA 6020B | Arsenic | 0.34 | mg/L | 0.010 | 07/19/23 18:30 | |
| EPA 6020B | Barium | 0.056 | mg/L | 0.0050 | 07/19/23 18:30 | |
| EPA 6020B | Beryllium | 0.00012J | mg/L | 0.00050 | 07/19/23 18:30 | |
| EPA 6020B | Boron | 1.0 | mg/L | 0.20 | 07/21/23 17:07 | |
| EPA 6020B | Cobalt | 0.13 | mg/L | 0.0050 | 07/19/23 18:30 | |
| EPA 6020B | Lithium | 0.060 | mg/L | 0.030 | 07/19/23 18:30 | |
| EPA 6020B | Molybdenum | 0.017 | mg/L | 0.010 | 07/19/23 18:30 | |
| EPA 6020B | Thallium | 0.00024J | mg/L | 0.0010 | 07/19/23 18:30 | |
| SM 2540C-2015 | Total Dissolved Solids | 808 | mg/L | 25.0 | 07/18/23 15:24 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 102 | mg/L | 5.0 | 07/20/23 16:53 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 102 | mg/L | 5.0 | 07/20/23 16:53 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 15.7 | mg/L | 1.0 | 07/19/23 04:24 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.36 | mg/L | 0.10 | 07/19/23 04:24 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 411 | mg/L | 9.0 | 07/19/23 10:21 | |
| 92677694005 | HAM-PT-08 | | | | | |
| | Performed by | CUSTOMER | | | 07/17/23 17:17 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92677694

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92677694005 | HAM-PT-08 | | | | | |
| | pH | 6.66 | Std. Units | | 07/17/23 17:17 | |
| EPA 6010D | Manganese | 8.7 | mg/L | 0.040 | 07/20/23 16:24 | |
| EPA 6010D | Potassium | 6.0 | mg/L | 0.50 | 07/20/23 16:24 | |
| EPA 6010D | Sodium | 6.9 | mg/L | 1.0 | 07/20/23 16:24 | |
| EPA 6010D | Calcium | 161 | mg/L | 1.0 | 07/20/23 16:24 | |
| EPA 6010D | Magnesium | 18.9 | mg/L | 0.050 | 07/20/23 16:24 | |
| EPA 6010D | Iron | 24.2 | mg/L | 0.040 | 07/25/23 16:38 | |
| EPA 6020B | Arsenic | 0.33 | mg/L | 0.010 | 07/19/23 18:36 | |
| EPA 6020B | Barium | 0.051 | mg/L | 0.0050 | 07/19/23 18:36 | |
| EPA 6020B | Beryllium | 0.00011J | mg/L | 0.00050 | 07/19/23 18:36 | |
| EPA 6020B | Boron | 1.0 | mg/L | 0.20 | 07/21/23 17:13 | |
| EPA 6020B | Cobalt | 0.031 | mg/L | 0.0050 | 07/19/23 18:36 | |
| EPA 6020B | Lithium | 0.065 | mg/L | 0.030 | 07/19/23 18:36 | |
| EPA 6020B | Molybdenum | 0.0079J | mg/L | 0.010 | 07/19/23 18:36 | |
| SM 2540C-2015 | Total Dissolved Solids | 734 | mg/L | 25.0 | 07/18/23 15:25 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 107 | mg/L | 5.0 | 07/20/23 17:03 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 107 | mg/L | 5.0 | 07/20/23 17:03 | |
| SM 4500-S2D-2011 | Sulfide | 0.036J | mg/L | 0.10 | 07/20/23 03:42 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 17.0 | mg/L | 1.0 | 07/19/23 04:38 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.36 | mg/L | 0.10 | 07/19/23 04:38 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 417 | mg/L | 8.0 | 07/19/23 12:00 | |
| 92677694006 | HAM-AP1-FD-01 | | | | | |
| EPA 6010D | Iron | 24.6 | mg/L | 0.040 | 07/25/23 16:48 | |
| EPA 6010D | Manganese | 8.6 | mg/L | 0.040 | 07/20/23 16:29 | |
| EPA 6010D | Potassium | 6.4 | mg/L | 0.50 | 07/20/23 16:29 | |
| EPA 6010D | Sodium | 6.6 | mg/L | 1.0 | 07/20/23 16:29 | |
| EPA 6010D | Calcium | 180 | mg/L | 1.0 | 07/20/23 16:29 | |
| EPA 6010D | Magnesium | 19.6 | mg/L | 0.050 | 07/20/23 16:29 | |
| EPA 6020B | Arsenic | 0.34 | mg/L | 0.010 | 07/19/23 18:54 | |
| EPA 6020B | Barium | 0.057 | mg/L | 0.0050 | 07/19/23 18:54 | |
| EPA 6020B | Beryllium | 0.00011J | mg/L | 0.00050 | 07/19/23 18:54 | |
| EPA 6020B | Boron | 0.99 | mg/L | 0.20 | 07/21/23 17:19 | |
| EPA 6020B | Cobalt | 0.14 | mg/L | 0.0050 | 07/19/23 18:54 | |
| EPA 6020B | Lithium | 0.060 | mg/L | 0.030 | 07/19/23 18:54 | |
| EPA 6020B | Molybdenum | 0.018 | mg/L | 0.010 | 07/19/23 18:54 | |
| EPA 6020B | Thallium | 0.00025J | mg/L | 0.0010 | 07/19/23 18:54 | |
| SM 2540C-2015 | Total Dissolved Solids | 804 | mg/L | 25.0 | 07/18/23 15:25 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 102 | mg/L | 5.0 | 07/20/23 17:12 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 102 | mg/L | 5.0 | 07/20/23 17:12 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 15.6 | mg/L | 1.0 | 07/19/23 04:53 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.31 | mg/L | 0.10 | 07/19/23 04:53 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 428 | mg/L | 9.0 | 07/19/23 12:56 | |
| 92677694008 | HAM-HGWC-13 | | | | | |
| | Performed by | CUSTOME | | | 07/17/23 17:17 | |
| | | R | | | | |
| | pH | 6.67 | Std. Units | | 07/17/23 17:17 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92677694

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|----------|-------|--------------|----------------|------------|
| 92677694008 | HAM-HGWC-13 | | | | | |
| EPA 6010D | Iron | 7.2 | mg/L | 0.040 | 07/20/23 16:39 | |
| EPA 6010D | Manganese | 8.9 | mg/L | 0.040 | 07/20/23 16:39 | |
| EPA 6010D | Potassium | 6.0 | mg/L | 0.50 | 07/20/23 16:39 | |
| EPA 6010D | Sodium | 6.8 | mg/L | 1.0 | 07/20/23 16:39 | |
| EPA 6010D | Calcium | 179 | mg/L | 1.0 | 07/20/23 16:39 | |
| EPA 6010D | Magnesium | 19.5 | mg/L | 0.050 | 07/20/23 16:39 | |
| EPA 6020B | Arsenic | 0.63 | mg/L | 0.010 | 07/19/23 19:06 | |
| EPA 6020B | Barium | 0.056 | mg/L | 0.0050 | 07/19/23 19:06 | |
| EPA 6020B | Beryllium | 0.00012J | mg/L | 0.00050 | 07/19/23 19:06 | |
| EPA 6020B | Boron | 1.0 | mg/L | 0.20 | 07/21/23 17:43 | |
| EPA 6020B | Cobalt | 0.018 | mg/L | 0.0050 | 07/19/23 19:06 | |
| EPA 6020B | Lithium | 0.048 | mg/L | 0.030 | 07/19/23 19:06 | |
| EPA 6020B | Molybdenum | 0.017 | mg/L | 0.010 | 07/19/23 19:06 | |
| EPA 6020B | Thallium | 0.00030J | mg/L | 0.0010 | 07/19/23 19:06 | |
| SM 2540C-2015 | Total Dissolved Solids | 817 | mg/L | 25.0 | 07/18/23 15:31 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 140 | mg/L | 5.0 | 07/20/23 17:26 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 140 | mg/L | 5.0 | 07/20/23 17:26 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 17.8 | mg/L | 1.0 | 07/19/23 05:50 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.32 | mg/L | 0.10 | 07/19/23 05:50 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 393 | mg/L | 8.0 | 07/19/23 13:10 | M1 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

Sample: HAM-HGWC-8 Lab ID: 92677694001 Collected: 07/13/23 10:35 Received: 07/17/23 12:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|-----------|------------|--------------|----------|----|----------------|----------------|-----------|------|
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 07/17/23 17:16 | | |
| pH | 6.65 | Std. Units | | | 1 | | 07/17/23 17:16 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Manganese | 0.28 | mg/L | 0.040 | 0.011 | 1 | 07/20/23 09:50 | 07/20/23 15:39 | 7439-96-5 | |
| Potassium | 6.9 | mg/L | 0.50 | 0.15 | 1 | 07/20/23 09:50 | 07/20/23 15:39 | 7440-09-7 | |
| Sodium | 8.8 | mg/L | 1.0 | 0.58 | 1 | 07/20/23 09:50 | 07/20/23 15:39 | 7440-23-5 | M1 |
| Calcium | 107 | mg/L | 1.0 | 0.12 | 1 | 07/20/23 09:50 | 07/20/23 15:39 | 7440-70-2 | M1 |
| Magnesium | 14.9 | mg/L | 0.050 | 0.012 | 1 | 07/20/23 09:50 | 07/20/23 15:39 | 7439-95-4 | M1 |
| Iron | 0.27 | mg/L | 0.040 | 0.025 | 1 | 07/20/23 09:50 | 07/25/23 15:53 | 7439-89-6 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7440-38-2 | |
| Barium | 0.047 | mg/L | 0.0050 | 0.00067 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7440-39-3 | |
| Beryllium | 0.000073J | mg/L | 0.00050 | 0.000054 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7440-41-7 | |
| Boron | 2.0 | mg/L | 0.20 | 0.043 | 5 | 07/18/23 13:46 | 07/21/23 16:37 | 7440-42-8 | |
| Cadmium | 0.00031J | mg/L | 0.00050 | 0.00011 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7440-47-3 | |
| Cobalt | 0.0015J | mg/L | 0.0050 | 0.00039 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7440-48-4 | |
| Lithium | 0.0015J | mg/L | 0.030 | 0.00073 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7439-93-2 | |
| Molybdenum | 0.30 | mg/L | 0.010 | 0.00074 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7782-49-2 | |
| Thallium | 0.00026J | mg/L | 0.0010 | 0.00018 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 07/27/23 12:00 | 07/27/23 14:51 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 513 | mg/L | 25.0 | 25.0 | 1 | | 07/18/23 15:24 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 136 | mg/L | 5.0 | 5.0 | 1 | | 07/19/23 19:16 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 07/19/23 19:16 | | |
| Alkalinity, Total as CaCO3 | 136 | mg/L | 5.0 | 5.0 | 1 | | 07/19/23 19:16 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

| Sample: HAM-HGWC-8 | | Lab ID: 92677694001 | | Collected: 07/13/23 10:35 | | Received: 07/17/23 12:30 | | Matrix: Water | |
|--------------------------------|-------------|---|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 07/20/23 03:39 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 47.9 | mg/L | 1.0 | 0.60 | 1 | | 07/19/23 03:12 | 16887-00-6 | |
| Fluoride | 0.49 | mg/L | 0.10 | 0.050 | 1 | | 07/19/23 03:12 | 16984-48-8 | |
| Sulfate | 163 | mg/L | 3.0 | 1.5 | 3 | | 07/19/23 09:10 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|------------------|------------|--------------|----------|----|----------------|----------------|-----------|------|
| Sample: HAM-PT-09 | | | | | | | | | |
| Lab ID: 92677694002 | | | | | | | | | |
| Collected: 07/13/23 12:47 | | | | | | | | | |
| Received: 07/17/23 12:30 | | | | | | | | | |
| Matrix: Water | | | | | | | | | |
| Field Data | | | | | | | | | |
| Analytical Method: | | | | | | | | | |
| Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 07/17/23 17:16 | | |
| pH | 6.57 | Std. Units | | | 1 | | 07/17/23 17:16 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.33 | mg/L | 0.040 | 0.025 | 1 | 07/20/23 09:50 | 07/25/23 16:08 | 7439-89-6 | |
| Manganese | 0.79 | mg/L | 0.040 | 0.011 | 1 | 07/20/23 09:50 | 07/20/23 15:59 | 7439-96-5 | |
| Potassium | 6.8 | mg/L | 0.50 | 0.15 | 1 | 07/20/23 09:50 | 07/20/23 15:59 | 7440-09-7 | |
| Sodium | 10.6 | mg/L | 1.0 | 0.58 | 1 | 07/20/23 09:50 | 07/20/23 15:59 | 7440-23-5 | |
| Calcium | 110 | mg/L | 1.0 | 0.12 | 1 | 07/20/23 09:50 | 07/20/23 15:59 | 7440-70-2 | |
| Magnesium | 15.6 | mg/L | 0.050 | 0.012 | 1 | 07/20/23 09:50 | 07/20/23 15:59 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | 0.0027J | mg/L | 0.0030 | 0.0012 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7440-38-2 | |
| Barium | 0.053 | mg/L | 0.0050 | 0.00067 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7440-39-3 | |
| Beryllium | 0.000077J | mg/L | 0.00050 | 0.000054 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7440-41-7 | |
| Boron | 2.1 | mg/L | 0.20 | 0.043 | 5 | 07/18/23 13:46 | 07/21/23 16:55 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7440-47-3 | |
| Cobalt | 0.0045J | mg/L | 0.0050 | 0.00039 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7440-48-4 | |
| Lithium | 0.0013J | mg/L | 0.030 | 0.00073 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7439-93-2 | |
| Molybdenum | 0.065 | mg/L | 0.010 | 0.00074 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 07/27/23 12:00 | 07/27/23 14:53 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 534 | mg/L | 25.0 | 25.0 | 1 | | 07/18/23 15:24 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 144 | mg/L | 5.0 | 5.0 | 1 | | 07/19/23 19:26 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 07/19/23 19:26 | | |
| Alkalinity, Total as CaCO3 | 144 | mg/L | 5.0 | 5.0 | 1 | | 07/19/23 19:26 | | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

| Sample: HAM-PT-09 | | Lab ID: 92677694002 | | Collected: 07/13/23 12:47 | Received: 07/17/23 12:30 | Matrix: Water | | | |
|--------------------------------|-------------|---|--------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 07/20/23 03:41 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 55.3 | mg/L | 1.0 | 0.60 | 1 | | 07/19/23 03:27 | 16887-00-6 | |
| Fluoride | 0.24 | mg/L | 0.10 | 0.050 | 1 | | 07/19/23 03:27 | 16984-48-8 | |
| Sulfate | 160 | mg/L | 3.0 | 1.5 | 3 | | 07/19/23 09:53 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

Sample: HAM-PT-10 **Lab ID: 92677694003** Collected: 07/13/23 14:15 Received: 07/17/23 12:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|-----------------|------------|--------------|----------|----|----------------|----------------|-----------|------|
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 07/17/23 17:16 | | |
| pH | 7.01 | Std. Units | | | 1 | | 07/17/23 17:16 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Manganese | 3.5 | mg/L | 0.040 | 0.011 | 1 | 07/20/23 09:50 | 07/20/23 16:14 | 7439-96-5 | |
| Potassium | 7.1 | mg/L | 0.50 | 0.15 | 1 | 07/20/23 09:50 | 07/20/23 16:14 | 7440-09-7 | |
| Sodium | 10.5 | mg/L | 1.0 | 0.58 | 1 | 07/20/23 09:50 | 07/20/23 16:14 | 7440-23-5 | |
| Calcium | 127 | mg/L | 1.0 | 0.12 | 1 | 07/20/23 09:50 | 07/20/23 16:14 | 7440-70-2 | |
| Magnesium | 16.8 | mg/L | 0.050 | 0.012 | 1 | 07/20/23 09:50 | 07/20/23 16:14 | 7439-95-4 | |
| Iron | 3.1 | mg/L | 0.040 | 0.025 | 1 | 07/20/23 09:50 | 07/25/23 16:12 | 7439-89-6 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7440-38-2 | |
| Barium | 0.074 | mg/L | 0.0050 | 0.00067 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7440-41-7 | |
| Boron | 2.2 | mg/L | 0.20 | 0.043 | 5 | 07/18/23 13:46 | 07/21/23 17:01 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7440-47-3 | |
| Cobalt | 0.0026J | mg/L | 0.0050 | 0.00039 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7440-48-4 | |
| Lithium | 0.0014J | mg/L | 0.030 | 0.00073 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7439-93-2 | |
| Molybdenum | 0.10 | mg/L | 0.010 | 0.00074 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 07/27/23 12:00 | 07/27/23 15:09 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 557 | mg/L | 25.0 | 25.0 | 1 | | 07/18/23 15:24 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 185 | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 16:41 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 16:41 | | |
| Alkalinity, Total as CaCO3 | 185 | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 16:41 | | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

Sample: HAM-PT-10 **Lab ID: 92677694003** Collected: 07/13/23 14:15 Received: 07/17/23 12:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|-------------|-------|--------------|-------|----|----------|----------------|------------|------|
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 07/20/23 03:41 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 67.2 | mg/L | 1.0 | 0.60 | 1 | | 07/19/23 04:10 | 16887-00-6 | |
| Fluoride | 0.33 | mg/L | 0.10 | 0.050 | 1 | | 07/19/23 04:10 | 16984-48-8 | |
| Sulfate | 145 | mg/L | 3.0 | 1.5 | 3 | | 07/19/23 10:07 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

| Sample: HAM-PT-07 | | Lab ID: 92677694004 | | Collected: 07/13/23 16:22 | | Received: 07/17/23 12:30 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 07/17/23 17:16 | | |
| pH | 6.76 | Std. Units | | | 1 | | 07/17/23 17:16 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Manganese | 8.2 | mg/L | 0.040 | 0.011 | 1 | 07/20/23 09:50 | 07/20/23 16:19 | 7439-96-5 | |
| Potassium | 6.0 | mg/L | 0.50 | 0.15 | 1 | 07/20/23 09:50 | 07/20/23 16:19 | 7440-09-7 | |
| Sodium | 6.1 | mg/L | 1.0 | 0.58 | 1 | 07/20/23 09:50 | 07/20/23 16:19 | 7440-23-5 | |
| Calcium | 168 | mg/L | 1.0 | 0.12 | 1 | 07/20/23 09:50 | 07/20/23 16:19 | 7440-70-2 | |
| Magnesium | 18.5 | mg/L | 0.050 | 0.012 | 1 | 07/20/23 09:50 | 07/20/23 16:19 | 7439-95-4 | |
| Iron | 23.8 | mg/L | 0.040 | 0.025 | 1 | 07/20/23 09:50 | 07/25/23 16:17 | 7439-89-6 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7440-36-0 | |
| Arsenic | 0.34 | mg/L | 0.010 | 0.0037 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7440-38-2 | |
| Barium | 0.056 | mg/L | 0.0050 | 0.00067 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7440-39-3 | |
| Beryllium | 0.00012J | mg/L | 0.00050 | 0.000054 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7440-41-7 | |
| Boron | 1.0 | mg/L | 0.20 | 0.043 | 5 | 07/18/23 13:46 | 07/21/23 17:07 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7440-47-3 | |
| Cobalt | 0.13 | mg/L | 0.0050 | 0.00039 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7440-48-4 | |
| Lithium | 0.060 | mg/L | 0.030 | 0.00073 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7439-93-2 | |
| Molybdenum | 0.017 | mg/L | 0.010 | 0.00074 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7782-49-2 | |
| Thallium | 0.00024J | mg/L | 0.0010 | 0.00018 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 07/27/23 12:00 | 07/27/23 15:12 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 808 | mg/L | 25.0 | 25.0 | 1 | | 07/18/23 15:24 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 102 | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 16:53 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 16:53 | | |
| Alkalinity, Total as CaCO3 | 102 | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 16:53 | | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

| Sample: HAM-PT-07 | | Lab ID: 92677694004 | | Collected: 07/13/23 16:22 | | Received: 07/17/23 12:30 | | Matrix: Water | |
|--------------------------------|-------------|---|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 07/20/23 03:42 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 15.7 | mg/L | 1.0 | 0.60 | 1 | | 07/19/23 04:24 | 16887-00-6 | |
| Fluoride | 0.36 | mg/L | 0.10 | 0.050 | 1 | | 07/19/23 04:24 | 16984-48-8 | |
| Sulfate | 411 | mg/L | 9.0 | 4.5 | 9 | | 07/19/23 10:21 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|-----------------|------------|--------------|----------|----|----------------|----------------|-----------|------|
| Sample: HAM-PT-08 | | | | | | | | | |
| Lab ID: 92677694005 | | | | | | | | | |
| Collected: 07/13/23 17:51 | | | | | | | | | |
| Received: 07/17/23 12:30 | | | | | | | | | |
| Matrix: Water | | | | | | | | | |
| Field Data | | | | | | | | | |
| Analytical Method: | | | | | | | | | |
| Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 07/17/23 17:17 | | |
| pH | 6.66 | Std. Units | | | 1 | | 07/17/23 17:17 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Manganese | 8.7 | mg/L | 0.040 | 0.011 | 1 | 07/20/23 09:50 | 07/20/23 16:24 | 7439-96-5 | |
| Potassium | 6.0 | mg/L | 0.50 | 0.15 | 1 | 07/20/23 09:50 | 07/20/23 16:24 | 7440-09-7 | |
| Sodium | 6.9 | mg/L | 1.0 | 0.58 | 1 | 07/20/23 09:50 | 07/20/23 16:24 | 7440-23-5 | |
| Calcium | 161 | mg/L | 1.0 | 0.12 | 1 | 07/20/23 09:50 | 07/20/23 16:24 | 7440-70-2 | |
| Magnesium | 18.9 | mg/L | 0.050 | 0.012 | 1 | 07/20/23 09:50 | 07/20/23 16:24 | 7439-95-4 | |
| Iron | 24.2 | mg/L | 0.040 | 0.025 | 1 | 07/20/23 09:50 | 07/25/23 16:38 | 7439-89-6 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7440-36-0 | |
| Arsenic | 0.33 | mg/L | 0.010 | 0.0037 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7440-38-2 | |
| Barium | 0.051 | mg/L | 0.0050 | 0.00067 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7440-39-3 | |
| Beryllium | 0.00011J | mg/L | 0.00050 | 0.000054 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7440-41-7 | |
| Boron | 1.0 | mg/L | 0.20 | 0.043 | 5 | 07/18/23 13:46 | 07/21/23 17:13 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7440-47-3 | |
| Cobalt | 0.031 | mg/L | 0.0050 | 0.00039 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7440-48-4 | |
| Lithium | 0.065 | mg/L | 0.030 | 0.00073 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7439-93-2 | |
| Molybdenum | 0.0079J | mg/L | 0.010 | 0.00074 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 07/27/23 12:00 | 07/27/23 15:14 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 734 | mg/L | 25.0 | 25.0 | 1 | | 07/18/23 15:25 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 107 | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:03 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:03 | | |
| Alkalinity, Total as CaCO3 | 107 | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:03 | | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

| Sample: HAM-PT-08 | | Lab ID: 92677694005 | | Collected: 07/13/23 17:51 | | Received: 07/17/23 12:30 | | Matrix: Water | |
|--------------------------------|---------------|---|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | 0.036J | mg/L | 0.10 | 0.022 | 1 | | 07/20/23 03:42 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 17.0 | mg/L | 1.0 | 0.60 | 1 | | 07/19/23 04:38 | 16887-00-6 | |
| Fluoride | 0.36 | mg/L | 0.10 | 0.050 | 1 | | 07/19/23 04:38 | 16984-48-8 | |
| Sulfate | 417 | mg/L | 8.0 | 4.0 | 8 | | 07/19/23 12:00 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

| Sample: HAM-AP1-FD-01 | | Lab ID: 92677694006 | | Collected: 07/13/23 00:00 | | Received: 07/17/23 12:30 | | Matrix: Water | |
|-------------------------------------|----------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 24.6 | mg/L | 0.040 | 0.025 | 1 | 07/20/23 09:50 | 07/25/23 16:48 | 7439-89-6 | |
| Manganese | 8.6 | mg/L | 0.040 | 0.011 | 1 | 07/20/23 09:50 | 07/20/23 16:29 | 7439-96-5 | |
| Potassium | 6.4 | mg/L | 0.50 | 0.15 | 1 | 07/20/23 09:50 | 07/20/23 16:29 | 7440-09-7 | |
| Sodium | 6.6 | mg/L | 1.0 | 0.58 | 1 | 07/20/23 09:50 | 07/20/23 16:29 | 7440-23-5 | |
| Calcium | 180 | mg/L | 1.0 | 0.12 | 1 | 07/20/23 09:50 | 07/20/23 16:29 | 7440-70-2 | |
| Magnesium | 19.6 | mg/L | 0.050 | 0.012 | 1 | 07/20/23 09:50 | 07/20/23 16:29 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7440-36-0 | |
| Arsenic | 0.34 | mg/L | 0.010 | 0.0037 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7440-38-2 | |
| Barium | 0.057 | mg/L | 0.0050 | 0.00067 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7440-39-3 | |
| Beryllium | 0.00011J | mg/L | 0.00050 | 0.000054 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7440-41-7 | |
| Boron | 0.99 | mg/L | 0.20 | 0.043 | 5 | 07/18/23 13:46 | 07/21/23 17:19 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7440-47-3 | |
| Cobalt | 0.14 | mg/L | 0.0050 | 0.00039 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7440-48-4 | |
| Lithium | 0.060 | mg/L | 0.030 | 0.00073 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7439-93-2 | |
| Molybdenum | 0.018 | mg/L | 0.010 | 0.00074 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7782-49-2 | |
| Thallium | 0.00025J | mg/L | 0.0010 | 0.00018 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 07/27/23 12:00 | 07/27/23 15:17 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 804 | mg/L | 25.0 | 25.0 | 1 | | 07/18/23 15:25 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 102 | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:12 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:12 | | |
| Alkalinity, Total as CaCO3 | 102 | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:12 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 07/20/23 03:42 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 15.6 | mg/L | 1.0 | 0.60 | 1 | | 07/19/23 04:53 | 16887-00-6 | |
| Fluoride | 0.31 | mg/L | 0.10 | 0.050 | 1 | | 07/19/23 04:53 | 16984-48-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

Sample: HAM-AP1-FD-01 Lab ID: 92677694006 Collected: 07/13/23 00:00 Received: 07/17/23 12:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----------------|-----|----|----------|----------------|------------|------|
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfate | 428 | mg/L | 9.0 | 4.5 | 9 | | 07/19/23 12:56 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

Sample: HAM-AP1-FB-01 Lab ID: 92677694007 Collected: 07/17/23 08:40 Received: 07/17/23 12:30 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 07/20/23 09:50 | 07/20/23 16:34 | 7439-96-5 | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 07/20/23 09:50 | 07/20/23 16:34 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 07/20/23 09:50 | 07/20/23 16:34 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 07/20/23 09:50 | 07/20/23 16:34 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 07/20/23 09:50 | 07/20/23 16:34 | 7439-95-4 | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 07/20/23 09:50 | 07/25/23 16:53 | 7439-89-6 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00067 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.0086 | 1 | 07/18/23 13:46 | 07/21/23 17:37 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7440-48-4 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 07/27/23 12:00 | 07/27/23 15:19 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 07/18/23 15:30 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:22 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:22 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:22 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 07/20/23 04:00 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 07/19/23 05:07 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 07/19/23 05:07 | 16984-48-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

Sample: HAM-AP1-FB-01 Lab ID: 92677694007 Collected: 07/17/23 08:40 Received: 07/17/23 12:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----------------|------|----|----------|----------------|------------|------|
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 07/19/23 05:07 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

Sample: HAM-HGWC-13 Lab ID: 92677694008 Collected: 07/17/23 11:47 Received: 07/17/23 12:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|-----------------|------------|--------------|----------|----|----------------|----------------|-----------|------|
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 07/17/23 17:17 | | |
| pH | 6.67 | Std. Units | | | 1 | | 07/17/23 17:17 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 7.2 | mg/L | 0.040 | 0.025 | 1 | 07/20/23 09:50 | 07/20/23 16:39 | 7439-89-6 | |
| Manganese | 8.9 | mg/L | 0.040 | 0.011 | 1 | 07/20/23 09:50 | 07/20/23 16:39 | 7439-96-5 | |
| Potassium | 6.0 | mg/L | 0.50 | 0.15 | 1 | 07/20/23 09:50 | 07/20/23 16:39 | 7440-09-7 | |
| Sodium | 6.8 | mg/L | 1.0 | 0.58 | 1 | 07/20/23 09:50 | 07/20/23 16:39 | 7440-23-5 | |
| Calcium | 179 | mg/L | 1.0 | 0.12 | 1 | 07/20/23 09:50 | 07/20/23 16:39 | 7440-70-2 | |
| Magnesium | 19.5 | mg/L | 0.050 | 0.012 | 1 | 07/20/23 09:50 | 07/20/23 16:39 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7440-36-0 | |
| Arsenic | 0.63 | mg/L | 0.010 | 0.0037 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7440-38-2 | |
| Barium | 0.056 | mg/L | 0.0050 | 0.00067 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7440-39-3 | |
| Beryllium | 0.00012J | mg/L | 0.00050 | 0.000054 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7440-41-7 | |
| Boron | 1.0 | mg/L | 0.20 | 0.043 | 5 | 07/18/23 13:46 | 07/21/23 17:43 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7440-47-3 | |
| Cobalt | 0.018 | mg/L | 0.0050 | 0.00039 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7440-48-4 | |
| Lithium | 0.048 | mg/L | 0.030 | 0.00073 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7439-93-2 | |
| Molybdenum | 0.017 | mg/L | 0.010 | 0.00074 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7782-49-2 | |
| Thallium | 0.00030J | mg/L | 0.0010 | 0.00018 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 07/27/23 12:00 | 07/27/23 15:22 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 817 | mg/L | 25.0 | 25.0 | 1 | | 07/18/23 15:31 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 140 | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:26 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:26 | | |
| Alkalinity, Total as CaCO3 | 140 | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:26 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

Sample: HAM-HGWC-13 Lab ID: 92677694008 Collected: 07/17/23 11:47 Received: 07/17/23 12:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 07/20/23 04:00 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 17.8 | mg/L | 1.0 | 0.60 | 1 | | 07/19/23 05:50 | 16887-00-6 | |
| Fluoride | 0.32 | mg/L | 0.10 | 0.050 | 1 | | 07/19/23 05:50 | 16984-48-8 | |
| Sulfate | 393 | mg/L | 8.0 | 4.0 | 8 | | 07/19/23 13:10 | 14808-79-8 | M1 |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

QC Batch: 787863 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

METHOD BLANK: 4084625 Matrix: Water
 Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 07/20/23 15:30 | |
| Iron | mg/L | ND | 0.040 | 0.025 | 07/25/23 15:43 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 07/20/23 15:30 | |
| Manganese | mg/L | ND | 0.040 | 0.011 | 07/20/23 15:30 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 07/20/23 15:30 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 07/20/23 15:30 | |

LABORATORY CONTROL SAMPLE: 4084626

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 1 | 0.92J | 92 | 80-120 | |
| Iron | mg/L | 1 | 0.99 | 99 | 80-120 | |
| Magnesium | mg/L | 1 | 0.93 | 93 | 80-120 | |
| Manganese | mg/L | 1 | 0.94 | 94 | 80-120 | |
| Potassium | mg/L | 1 | 0.88 | 88 | 80-120 | |
| Sodium | mg/L | 1 | 0.84J | 84 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4085060 4085061

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92677694001 Result | Spike Conc. | Spike Conc. | Conc. | | | | | | | | |
| Calcium | mg/L | 107 | 1 | 1 | 109 | 104 | 196 | -279 | 75-125 | 4 | 20 | M1 | |
| Iron | mg/L | 0.27 | 1 | 1 | 1.3 | 1.3 | 99 | 105 | 75-125 | 5 | 20 | | |
| Magnesium | mg/L | 14.9 | 1 | 1 | 16.2 | 15.6 | 128 | 74 | 75-125 | 3 | 20 | M1 | |
| Manganese | mg/L | 0.28 | 1 | 1 | 1.2 | 1.3 | 96 | 100 | 75-125 | 3 | 20 | | |
| Potassium | mg/L | 6.9 | 1 | 1 | 8.1 | 7.8 | 118 | 90 | 75-125 | 3 | 20 | | |
| Sodium | mg/L | 8.8 | 1 | 1 | 9.9 | 9.5 | 111 | 73 | 75-125 | 4 | 20 | M1 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

| | | | |
|--|-----------|-----------------------|--|
| QC Batch: | 787489 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6020 MET |
| Associated Lab Samples: | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |
| 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008 | | | |

| | | | |
|--|---------|---------|-------|
| METHOD BLANK: | 4082463 | Matrix: | Water |
| Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008 | | | |

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.0012 | 07/19/23 17:43 | |
| Arsenic | mg/L | ND | 0.010 | 0.0037 | 07/19/23 17:43 | |
| Barium | mg/L | ND | 0.0050 | 0.00067 | 07/19/23 17:43 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000054 | 07/19/23 17:43 | |
| Boron | mg/L | ND | 0.040 | 0.0086 | 07/21/23 16:25 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00011 | 07/19/23 17:43 | |
| Chromium | mg/L | ND | 0.0050 | 0.0011 | 07/19/23 17:43 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00039 | 07/19/23 17:43 | |
| Lithium | mg/L | ND | 0.030 | 0.00073 | 07/19/23 17:43 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00074 | 07/19/23 17:43 | |
| Selenium | mg/L | ND | 0.0050 | 0.0014 | 07/19/23 17:43 | |
| Thallium | mg/L | ND | 0.0010 | 0.00018 | 07/19/23 17:43 | |

LABORATORY CONTROL SAMPLE: 4082464

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.11 | 107 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Barium | mg/L | 0.1 | 0.096 | 96 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Boron | mg/L | 1 | 1.1 | 110 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.097 | 97 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4082465 4082466

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------------|--------|--------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | Spike Conc. | Spike Conc. | Result | Result | | | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 109 | 110 | 75-125 | 1 | 20 | | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.11 | 104 | 106 | 75-125 | 2 | 20 | | |
| Barium | mg/L | 0.047 | 0.1 | 0.1 | 0.16 | 0.16 | 114 | 113 | 75-125 | 1 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

| Parameter | Units | 4082465 | | 4082466 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 92677694001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Beryllium | mg/L | 0.000073J | 0.1 | 0.1 | 0.095 | 0.096 | 95 | 96 | 75-125 | 1 | 20 | | |
| Boron | mg/L | 2.0 | 1 | 1 | 3.1 | 2.9 | 108 | 94 | 75-125 | 5 | 20 | | |
| Cadmium | mg/L | 0.00031J | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 104 | 75-125 | 1 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.099 | 101 | 99 | 75-125 | 2 | 20 | | |
| Cobalt | mg/L | 0.0015J | 0.1 | 0.1 | 0.10 | 0.099 | 99 | 97 | 75-125 | 1 | 20 | | |
| Lithium | mg/L | 0.0015J | 0.1 | 0.1 | 0.099 | 0.099 | 97 | 98 | 75-125 | 0 | 20 | | |
| Molybdenum | mg/L | 0.30 | 0.1 | 0.1 | 0.42 | 0.42 | 121 | 123 | 75-125 | 1 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 106 | 106 | 75-125 | 0 | 20 | | |
| Thallium | mg/L | 0.00026J | 0.1 | 0.1 | 0.097 | 0.096 | 97 | 96 | 75-125 | 1 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 789561 | Analysis Method: | EPA 7470A |
| QC Batch Method: | EPA 7470A | Analysis Description: | 7470 Mercury |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

METHOD BLANK: 4092350 Matrix: Water

Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00020 | 0.00013 | 07/27/23 14:41 | |

LABORATORY CONTROL SAMPLE: 4092351

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0023 | 92 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4092352 4092353

| Parameter | Units | 92677694002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Mercury | mg/L | ND | 0.0025 | 0.0025 | 0.0021 | 0.0021 | 83 | 85 | 75-125 | 2 | 20 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

| | | | |
|-------------------------|--|-----------------------|--|
| QC Batch: | 787441 | Analysis Method: | SM 2540C-2015 |
| QC Batch Method: | SM 2540C-2015 | Analysis Description: | 2540C Total Dissolved Solids |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |
| Associated Lab Samples: | 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | 4082157 | Matrix: | Water |
| Associated Lab Samples: | 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008 | | |

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 07/18/23 15:23 | |

| LABORATORY CONTROL SAMPLE: 4082158 | | | | | | |
|------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
| Total Dissolved Solids | mg/L | 400 | 409 | 102 | 80-120 | |

| SAMPLE DUPLICATE: 4082159 | | | | | | |
|---------------------------|-------|--------------------|------------|-----|---------|------------|
| Parameter | Units | 92677694001 Result | Dup Result | RPD | Max RPD | Qualifiers |
| Total Dissolved Solids | mg/L | 513 | 511 | 0 | 10 | |

| SAMPLE DUPLICATE: 4082160 | | | | | | |
|---------------------------|-------|--------------------|------------|-----|---------|------------|
| Parameter | Units | 92677696005 Result | Dup Result | RPD | Max RPD | Qualifiers |
| Total Dissolved Solids | mg/L | 1460 | 1570 | 8 | 10 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

QC Batch: 787723

Analysis Method: SM 2320B-2011

QC Batch Method: SM 2320B-2011

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92677694001, 92677694002

METHOD BLANK: 4083535

Matrix: Water

Associated Lab Samples: 92677694001, 92677694002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 07/19/23 16:09 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 07/19/23 16:09 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 07/19/23 16:09 | |

LABORATORY CONTROL SAMPLE: 4083536

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.8 | 106 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4083537

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 49.5 | 99 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4083538 4083539

| Parameter | Units | 4083538 | | 4083539 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|----------------------------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|------|--|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 48.7 | 50 | 50 | 102 | 103 | 106 | 108 | 80-120 | 1 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4083540 4083541

| Parameter | Units | 4083540 | | 4083541 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|----------------------------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|-------|--|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 330 | 50 | 50 | 390 | 394 | 120 | 129 | 80-120 | 1 | 25 M1 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

QC Batch: 788121 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

METHOD BLANK: 4085797 Matrix: Water
 Associated Lab Samples: 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 07/20/23 16:09 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 07/20/23 16:09 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 07/20/23 16:09 | |

LABORATORY CONTROL SAMPLE: 4085798

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 51.4 | 103 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4085799

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 50.7 | 101 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4085800 4085801

| Parameter | Units | 92677753005 | | 4085801 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 121 | 50 | 50 | 180 | 180 | 118 | 118 | 80-120 | 0 | 25 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4085802 4085803

| Parameter | Units | 92677753006 | | 4085803 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 76.8 | 50 | 50 | 129 | 131 | 103 | 108 | 80-120 | 2 | 25 |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

QC Batch: 787902 Analysis Method: SM 4500-S2D-2011
 QC Batch Method: SM 4500-S2D-2011 Analysis Description: 4500S2D Sulfide Water
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006

METHOD BLANK: 4084741 Matrix: Water
 Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide | mg/L | ND | 0.10 | 0.022 | 07/20/23 03:38 | |

LABORATORY CONTROL SAMPLE: 4084742

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide | mg/L | 0.5 | 0.49 | 98 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4084743 4084744

| Parameter | Units | 92677694001 | | 4084744 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-----------------|-----------|-----------------|-------|-------|--------------|--------|---------|------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.47 | 0.47 | 93 | 93 | 80-120 | 0 | 10 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4084745 4084746

| Parameter | Units | 92677696005 | | 4084746 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-----------------|-----------|-----------------|-------|-------|--------------|--------|---------|------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.48 | 0.46 | 94 | 90 | 80-120 | 5 | 10 |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

| | |
|-----------------------------------|--|
| QC Batch: 787903 | Analysis Method: SM 4500-S2D-2011 |
| QC Batch Method: SM 4500-S2D-2011 | Analysis Description: 4500S2D Sulfide Water |
| | Laboratory: Pace Analytical Services - Asheville |

Associated Lab Samples: 92677694007, 92677694008

METHOD BLANK: 4084747 Matrix: Water

Associated Lab Samples: 92677694007, 92677694008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide | mg/L | ND | 0.10 | 0.022 | 07/20/23 03:57 | |

LABORATORY CONTROL SAMPLE: 4084748

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide | mg/L | 0.5 | 0.49 | 97 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4084749 4084750

| Parameter | Units | 92678161006 | | 4084749 | | 4084750 | | % Rec Limits | RPD | Max RPD | Qual | |
|-----------|-------|-------------|------------|----------------|-----------------|-----------|------------|--------------|--------|---------|------|--|
| | | MS Result | MSD Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.53 | 0.54 | 105 | 108 | 80-120 | 3 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4084751 4084752

| Parameter | Units | 92677696012 | | 4084751 | | 4084752 | | % Rec Limits | RPD | Max RPD | Qual | |
|-----------|-------|-------------|------------|----------------|-----------------|-----------|------------|--------------|--------|---------|------|--|
| | | MS Result | MSD Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.43 | 0.47 | 84 | 93 | 80-120 | 10 | 10 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

| | | | |
|------------------|------------------------|-----------------------|--------------------------------------|
| QC Batch: | 787373 | Analysis Method: | EPA 300.0 Rev 2.1 1993 |
| QC Batch Method: | EPA 300.0 Rev 2.1 1993 | Analysis Description: | 300.0 IC Anions |
| | | Laboratory: | Pace Analytical Services - Asheville |

Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007

METHOD BLANK: 4081842 Matrix: Water
 Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 07/18/23 12:46 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 07/18/23 12:46 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 07/18/23 12:46 | |

LABORATORY CONTROL SAMPLE: 4081843

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 50.3 | 101 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.5 | 101 | 90-110 | |
| Sulfate | mg/L | 50 | 49.5 | 99 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4081844 4081845

| Parameter | Units | 92677589002 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|--------|------------|-------|-----------|--------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | Result | MSD Result | % Rec | MSD % Rec | | | | | |
| Chloride | mg/L | 2.9 | 50 | 50 | 54.1 | 54.7 | 102 | 104 | 90-110 | 1 | 10 | | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.7 | 2.7 | 107 | 107 | 90-110 | 0 | 10 | | |
| Sulfate | mg/L | 25.2 | 50 | 50 | 75.9 | 76.5 | 101 | 103 | 90-110 | 1 | 10 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4081846 4081847

| Parameter | Units | 92677589020 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|--------|------------|-------|-----------|--------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | Result | MSD Result | % Rec | MSD % Rec | | | | | |
| Chloride | mg/L | 21.6 | 50 | 50 | 60.3 | 60.3 | 78 | 77 | 90-110 | 0 | 10 | M1 | |
| Fluoride | mg/L | 0.37J | 2.5 | 2.5 | 2.8J | 3.2J | 96 | 113 | 90-110 | | 10 | M1 | |
| Sulfate | mg/L | 3080 | 50 | 50 | 3000 | 2940 | -145 | -278 | 90-110 | 2 | 10 | M1 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

| | |
|---|--|
| QC Batch: 787377 | Analysis Method: EPA 300.0 Rev 2.1 1993 |
| QC Batch Method: EPA 300.0 Rev 2.1 1993 | Analysis Description: 300.0 IC Anions |
| | Laboratory: Pace Analytical Services - Asheville |

Associated Lab Samples: 92677694008

METHOD BLANK: 4081859 Matrix: Water

Associated Lab Samples: 92677694008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 07/19/23 05:21 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 07/19/23 05:21 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 07/19/23 05:21 | |

LABORATORY CONTROL SAMPLE: 4081860

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 50.4 | 101 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.4 | 98 | 90-110 | |
| Sulfate | mg/L | 50 | 49.8 | 100 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4081861 4081862

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92677694008 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Chloride | mg/L | 17.8 | 50 | 50 | 69.7 | 70.1 | 104 | 105 | 90-110 | 1 | 10 | | |
| Fluoride | mg/L | 0.32 | 2.5 | 2.5 | 2.8 | 2.8 | 98 | 99 | 90-110 | 1 | 10 | | |
| Sulfate | mg/L | 393 | 50 | 50 | 422 | 418 | 58 | 49 | 90-110 | 1 | 10 | M1 | |

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QUALIFIERS

Project: Hammond AP-1

Pace Project No.: 92677694

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1

Pace Project No.: 92677694

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|-----------------|----------|-------------------|------------------|
| 92677694001 | HAM-HGWC-8 | | | | |
| 92677694002 | HAM-PT-09 | | | | |
| 92677694003 | HAM-PT-10 | | | | |
| 92677694004 | HAM-PT-07 | | | | |
| 92677694005 | HAM-PT-08 | | | | |
| 92677694008 | HAM-HGWC-13 | | | | |
| 92677694001 | HAM-HGWC-8 | EPA 3010A | 787863 | EPA 6010D | 788067 |
| 92677694002 | HAM-PT-09 | EPA 3010A | 787863 | EPA 6010D | 788067 |
| 92677694003 | HAM-PT-10 | EPA 3010A | 787863 | EPA 6010D | 788067 |
| 92677694004 | HAM-PT-07 | EPA 3010A | 787863 | EPA 6010D | 788067 |
| 92677694005 | HAM-PT-08 | EPA 3010A | 787863 | EPA 6010D | 788067 |
| 92677694006 | HAM-AP1-FD-01 | EPA 3010A | 787863 | EPA 6010D | 788067 |
| 92677694007 | HAM-AP1-FB-01 | EPA 3010A | 787863 | EPA 6010D | 788067 |
| 92677694008 | HAM-HGWC-13 | EPA 3010A | 787863 | EPA 6010D | 788067 |
| 92677694001 | HAM-HGWC-8 | EPA 3005A | 787489 | EPA 6020B | 787561 |
| 92677694002 | HAM-PT-09 | EPA 3005A | 787489 | EPA 6020B | 787561 |
| 92677694003 | HAM-PT-10 | EPA 3005A | 787489 | EPA 6020B | 787561 |
| 92677694004 | HAM-PT-07 | EPA 3005A | 787489 | EPA 6020B | 787561 |
| 92677694005 | HAM-PT-08 | EPA 3005A | 787489 | EPA 6020B | 787561 |
| 92677694006 | HAM-AP1-FD-01 | EPA 3005A | 787489 | EPA 6020B | 787561 |
| 92677694007 | HAM-AP1-FB-01 | EPA 3005A | 787489 | EPA 6020B | 787561 |
| 92677694008 | HAM-HGWC-13 | EPA 3005A | 787489 | EPA 6020B | 787561 |
| 92677694001 | HAM-HGWC-8 | EPA 7470A | 789561 | EPA 7470A | 789666 |
| 92677694002 | HAM-PT-09 | EPA 7470A | 789561 | EPA 7470A | 789666 |
| 92677694003 | HAM-PT-10 | EPA 7470A | 789561 | EPA 7470A | 789666 |
| 92677694004 | HAM-PT-07 | EPA 7470A | 789561 | EPA 7470A | 789666 |
| 92677694005 | HAM-PT-08 | EPA 7470A | 789561 | EPA 7470A | 789666 |
| 92677694006 | HAM-AP1-FD-01 | EPA 7470A | 789561 | EPA 7470A | 789666 |
| 92677694007 | HAM-AP1-FB-01 | EPA 7470A | 789561 | EPA 7470A | 789666 |
| 92677694008 | HAM-HGWC-13 | EPA 7470A | 789561 | EPA 7470A | 789666 |
| 92677694001 | HAM-HGWC-8 | SM 2540C-2015 | 787441 | | |
| 92677694002 | HAM-PT-09 | SM 2540C-2015 | 787441 | | |
| 92677694003 | HAM-PT-10 | SM 2540C-2015 | 787441 | | |
| 92677694004 | HAM-PT-07 | SM 2540C-2015 | 787441 | | |
| 92677694005 | HAM-PT-08 | SM 2540C-2015 | 787441 | | |
| 92677694006 | HAM-AP1-FD-01 | SM 2540C-2015 | 787441 | | |
| 92677694007 | HAM-AP1-FB-01 | SM 2540C-2015 | 787441 | | |
| 92677694008 | HAM-HGWC-13 | SM 2540C-2015 | 787441 | | |
| 92677694001 | HAM-HGWC-8 | SM 2320B-2011 | 787723 | | |
| 92677694002 | HAM-PT-09 | SM 2320B-2011 | 787723 | | |
| 92677694003 | HAM-PT-10 | SM 2320B-2011 | 788121 | | |
| 92677694004 | HAM-PT-07 | SM 2320B-2011 | 788121 | | |
| 92677694005 | HAM-PT-08 | SM 2320B-2011 | 788121 | | |
| 92677694006 | HAM-AP1-FD-01 | SM 2320B-2011 | 788121 | | |
| 92677694007 | HAM-AP1-FB-01 | SM 2320B-2011 | 788121 | | |
| 92677694008 | HAM-HGWC-13 | SM 2320B-2011 | 788121 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1

Pace Project No.: 92677694

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|------------------------|----------|-------------------|------------------|
| 92677694001 | HAM-HGWC-8 | SM 4500-S2D-2011 | 787902 | | |
| 92677694002 | HAM-PT-09 | SM 4500-S2D-2011 | 787902 | | |
| 92677694003 | HAM-PT-10 | SM 4500-S2D-2011 | 787902 | | |
| 92677694004 | HAM-PT-07 | SM 4500-S2D-2011 | 787902 | | |
| 92677694005 | HAM-PT-08 | SM 4500-S2D-2011 | 787902 | | |
| 92677694006 | HAM-AP1-FD-01 | SM 4500-S2D-2011 | 787902 | | |
| 92677694007 | HAM-AP1-FB-01 | SM 4500-S2D-2011 | 787903 | | |
| 92677694008 | HAM-HGWC-13 | SM 4500-S2D-2011 | 787903 | | |
| 92677694001 | HAM-HGWC-8 | EPA 300.0 Rev 2.1 1993 | 787373 | | |
| 92677694002 | HAM-PT-09 | EPA 300.0 Rev 2.1 1993 | 787373 | | |
| 92677694003 | HAM-PT-10 | EPA 300.0 Rev 2.1 1993 | 787373 | | |
| 92677694004 | HAM-PT-07 | EPA 300.0 Rev 2.1 1993 | 787373 | | |
| 92677694005 | HAM-PT-08 | EPA 300.0 Rev 2.1 1993 | 787373 | | |
| 92677694006 | HAM-AP1-FD-01 | EPA 300.0 Rev 2.1 1993 | 787373 | | |
| 92677694007 | HAM-AP1-FB-01 | EPA 300.0 Rev 2.1 1993 | 787373 | | |
| 92677694008 | HAM-HGWC-13 | EPA 300.0 Rev 2.1 1993 | 787377 | | |

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GHPower

Project #:

WO#: 92677694



Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 7-18-23A

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 6.5 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 6.5

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | Comments/Discrepancy: |
|---|--|-----------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: | <u>WG</u> | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92677694

PM: BV

Due Date: 07/31/23

CLIENT: 92- GP-HAM

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | V5GU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|
| 1 | | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document

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

| | | | | | |
|----------------------------------|---|--|---------------------|-----------------------------------|-------------------------------|
| Section A Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
| Company: | GA Power | Report To: | SCS Contacts | Amplifier: | Southern Co. |
| Address: | Atlanta, GA | Copy To: | Geosyntec Contacts | Company Name: | |
| City/State: | | Task Code: | HAM-CCR-CA-20230713 | Address: | |
| Client To: | SCS Contacts | Purchase Order No.: | | Price Quote Reference: | Bonnie Vang |
| Project No.: | | Project Name: | Hammond AP-1 | Price Project Manager: | |
| Requested Due Date/AT: | 10 Day | Project Number: | | Price Profile #: | 10839-10463-20 |
| REGULATORY AGENCY | | Requested Analysis Filtered (Y/N) | | Site Location STATE: GA | |
| <input type="checkbox"/> NPDES | <input type="checkbox"/> GROUND WATER | <input type="checkbox"/> DRINKING WATER | | <input type="checkbox"/> UST | <input type="checkbox"/> RCRA |
| <input type="checkbox"/> OTHER | <input checked="" type="checkbox"/> OTHER | <input type="checkbox"/> CCR | | | |

| Section D Required Client Information | Valid Matrix Codes MATRIX CODE | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | | Analysis Test | | | Residual Chlorine (Y/N) | Sample Conditions | |
|--|-----------------------------------|-----------|-----------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|----------|---------------|-----------------------------|----------------------|-------------------------|-------------------|------------------|
| | | COMPOSITE | COMPOSITE | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₃ | Methanol | Other | Full App. III and IV metals | Major Ions (10839-2) | | | Boron and Cobalt |
| HAM-HGWC-8 | WG G | 7/15/23 | 1035 | 21 | 5 | X | X | X | X | X | X | X | X | X | X | X | X | PH = 6.05 |
| HAM-PT-09 | WG G | 7/15/23 | 1247 | 14 | 5 | X | X | X | X | X | X | X | X | X | X | X | X | PH = 6.57 |
| HAM-PT-10 | WG G | 7/15/23 | 1415 | 22 | 5 | X | X | X | X | X | X | X | X | X | X | X | X | PH = 7.01 |
| HAM-PT-07 | WG G | 7/15/23 | 1022 | 27 | 5 | X | X | X | X | X | X | X | X | X | X | X | X | PH = 6.76 |
| HAM-PT-08 | WG G | 7/15/23 | 11751 | 24 | 5 | X | X | X | X | X | X | X | X | X | X | X | X | PH = 6.010 |
| HAM-AP1-ED-01 | WG G | 7/15/23 | 0000 | - | 5 | X | X | X | X | X | X | X | X | X | X | X | X | PH = 6.07 |
| HAM-AP1-FB-01 | WG G | 7/17/23 | 0840 | - | 5 | X | X | X | X | X | X | X | X | X | X | X | X | PH = 6.010 |
| HAM-AP HGWC-13 | WG G | 7/17/23 | 1147 | 23 | 5 | X | X | X | X | X | X | X | X | X | X | X | X | PH = 6.017 |

| | | | | | | | | |
|------|---------------------|-------------------------------|---------|------|---------------------------|---------|------|-------------------|
| Code | HAM-CCR-CA-20230713 | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
| | | Alana Wray Geosyntec | 7/17/23 | 1230 | Bon Williams / Pace | 7/17/23 | 1230 | |
| | | Bon Williams / Pace | 7/17/23 | 1425 | Alana Wray / Pace | 7/17/23 | 1425 | |

| | | | |
|----------------------------|-------------------|------------------------|----------------------------|
| SAMPLER NAME AND SIGNATURE | | DATE Signed (MM/DD/YY) | Geosyntec Consultants, Inc |
| PRINT Name of SAMPLER: | Alana Wray | 7/17/23 | |
| SIGNATURE of SAMPLER: | <i>Alana Wray</i> | | |

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07.15-Feb-2007



August 25, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on August 11, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Angela Baioni for
Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------|--------|----------------|----------------|
| 92682397001 | HAM-PT-07 | Water | 08/09/23 17:59 | 08/11/23 13:12 |
| 92682397002 | HAM-PT-08 | Water | 08/09/23 10:50 | 08/11/23 13:12 |
| 92682397003 | HAM-PT-09 | Water | 08/09/23 14:42 | 08/11/23 13:12 |
| 92682397004 | HAM-PT-10 | Water | 08/09/23 13:05 | 08/11/23 13:12 |
| 92682397005 | HAM-MW-53 | Water | 08/09/23 16:40 | 08/11/23 13:12 |
| 92682397006 | HAM-MW-54 | Water | 08/09/23 16:51 | 08/11/23 13:12 |
| 92682397007 | HAM-AP1-FD-06 | Water | 08/09/23 00:00 | 08/11/23 13:12 |
| 92682397008 | HAM-AP1-FB-06 | Water | 08/09/23 16:50 | 08/11/23 13:12 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------|------------------------|----------|-------------------|
| 92682397001 | HAM-PT-07 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92682397002 | HAM-PT-08 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92682397003 | HAM-PT-09 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92682397004 | HAM-PT-10 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92682397005 | HAM-MW-53 | EPA 6020B | CW1 | 2 |
| 92682397006 | HAM-MW-54 | EPA 6020B | CW1 | 2 |
| 92682397007 | HAM-AP1-FD-06 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------|------------------------|----------|-------------------|
| 92682397008 | HAM-AP1-FB-06 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|-----------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92682397001 | HAM-PT-07 | | | | | |
| EPA 6010D | Iron | 27.1 | mg/L | 0.040 | 08/18/23 21:03 | |
| EPA 6010D | Manganese | 7.6 | mg/L | 0.040 | 08/18/23 21:03 | |
| EPA 6010D | Potassium | 6.8 | mg/L | 0.50 | 08/18/23 21:03 | |
| EPA 6010D | Sodium | 7.2 | mg/L | 1.0 | 08/18/23 21:03 | |
| EPA 6010D | Calcium | 173 | mg/L | 1.0 | 08/18/23 21:03 | |
| EPA 6010D | Magnesium | 19.4 | mg/L | 0.050 | 08/18/23 21:03 | |
| EPA 6020B | Arsenic | 0.27 | mg/L | 0.010 | 08/22/23 16:32 | |
| EPA 6020B | Barium | 0.053 | mg/L | 0.0050 | 08/22/23 16:32 | |
| EPA 6020B | Beryllium | 0.000095J | mg/L | 0.00050 | 08/22/23 16:32 | |
| EPA 6020B | Boron | 0.93 | mg/L | 0.040 | 08/23/23 13:17 | |
| EPA 6020B | Cobalt | 0.090 | mg/L | 0.0050 | 08/23/23 13:17 | |
| EPA 6020B | Lithium | 0.069 | mg/L | 0.030 | 08/23/23 13:17 | |
| EPA 6020B | Molybdenum | 0.012 | mg/L | 0.010 | 08/22/23 16:32 | |
| EPA 6020B | Thallium | 0.00022J | mg/L | 0.0010 | 08/22/23 16:32 | |
| SM 2540C-2015 | Total Dissolved Solids | 771 | mg/L | 25.0 | 08/15/23 16:56 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 116 | mg/L | 5.0 | 08/16/23 15:20 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 116 | mg/L | 5.0 | 08/16/23 15:20 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 13.5 | mg/L | 1.0 | 08/15/23 21:32 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.28 | mg/L | 0.10 | 08/15/23 21:32 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 339 | mg/L | 7.0 | 08/16/23 08:19 | |
| 92682397002 | HAM-PT-08 | | | | | |
| EPA 6010D | Iron | 22.0 | mg/L | 0.040 | 08/18/23 21:13 | |
| EPA 6010D | Manganese | 6.8 | mg/L | 0.040 | 08/18/23 21:13 | |
| EPA 6010D | Potassium | 6.3 | mg/L | 0.50 | 08/18/23 21:13 | |
| EPA 6010D | Sodium | 6.8 | mg/L | 1.0 | 08/18/23 21:13 | |
| EPA 6010D | Calcium | 146 | mg/L | 1.0 | 08/18/23 21:13 | |
| EPA 6010D | Magnesium | 17.3 | mg/L | 0.050 | 08/18/23 21:13 | |
| EPA 6020B | Arsenic | 0.32 | mg/L | 0.010 | 08/22/23 16:39 | |
| EPA 6020B | Barium | 0.050 | mg/L | 0.0050 | 08/22/23 16:39 | |
| EPA 6020B | Beryllium | 0.000073J | mg/L | 0.00050 | 08/22/23 16:39 | |
| EPA 6020B | Boron | 0.99 | mg/L | 0.040 | 08/23/23 13:23 | |
| EPA 6020B | Cobalt | 0.032 | mg/L | 0.0050 | 08/22/23 16:39 | |
| EPA 6020B | Lithium | 0.073 | mg/L | 0.030 | 08/23/23 13:23 | |
| EPA 6020B | Molybdenum | 0.0071J | mg/L | 0.010 | 08/22/23 16:39 | |
| SM 2540C-2015 | Total Dissolved Solids | 682 | mg/L | 25.0 | 08/15/23 16:57 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 118 | mg/L | 5.0 | 08/16/23 15:40 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 118 | mg/L | 5.0 | 08/16/23 15:40 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 14.5 | mg/L | 1.0 | 08/15/23 22:30 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.27 | mg/L | 0.10 | 08/15/23 22:30 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 290 | mg/L | 6.0 | 08/16/23 09:16 | M1 |
| 92682397003 | HAM-PT-09 | | | | | |
| EPA 6010D | Iron | 0.10 | mg/L | 0.040 | 08/18/23 21:18 | |
| EPA 6010D | Manganese | 0.51 | mg/L | 0.040 | 08/18/23 21:18 | |
| EPA 6010D | Potassium | 7.7 | mg/L | 0.50 | 08/18/23 21:18 | |
| EPA 6010D | Sodium | 10.3 | mg/L | 1.0 | 08/18/23 21:18 | |
| EPA 6010D | Calcium | 136 | mg/L | 1.0 | 08/18/23 21:18 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|---------|-------|--------------|----------------|------------|
| 92682397003 | HAM-PT-09 | | | | | |
| EPA 6010D | Magnesium | 18.2 | mg/L | 0.050 | 08/18/23 21:18 | |
| EPA 6020B | Barium | 0.057 | mg/L | 0.0050 | 08/22/23 16:43 | |
| EPA 6020B | Boron | 1.6 | mg/L | 0.40 | 08/23/23 19:25 | |
| EPA 6020B | Cobalt | 0.0028J | mg/L | 0.0050 | 08/22/23 16:43 | |
| EPA 6020B | Lithium | 0.0017J | mg/L | 0.030 | 08/22/23 16:43 | |
| EPA 6020B | Molybdenum | 0.21 | mg/L | 0.010 | 08/22/23 16:43 | |
| SM 2540C-2015 | Total Dissolved Solids | 594 | mg/L | 25.0 | 08/15/23 16:57 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 150 | mg/L | 5.0 | 08/16/23 15:50 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 150 | mg/L | 5.0 | 08/16/23 15:50 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 47.5 | mg/L | 1.0 | 08/15/23 23:14 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.26 | mg/L | 0.10 | 08/15/23 23:14 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 188 | mg/L | 4.0 | 08/16/23 09:59 | |
| 92682397004 | HAM-PT-10 | | | | | |
| EPA 6010D | Iron | 2.9 | mg/L | 0.040 | 08/23/23 21:33 | |
| EPA 6010D | Manganese | 3.1 | mg/L | 0.040 | 08/23/23 21:33 | |
| EPA 6010D | Potassium | 6.7 | mg/L | 0.50 | 08/23/23 21:33 | M1 |
| EPA 6010D | Sodium | 9.4 | mg/L | 1.0 | 08/23/23 21:33 | M1 |
| EPA 6010D | Calcium | 116 | mg/L | 1.0 | 08/23/23 21:33 | M1 |
| EPA 6010D | Magnesium | 16.8 | mg/L | 0.050 | 08/23/23 21:33 | M1 |
| EPA 6020B | Barium | 0.070 | mg/L | 0.0050 | 08/22/23 16:51 | |
| EPA 6020B | Boron | 2.1 | mg/L | 0.40 | 08/23/23 19:48 | |
| EPA 6020B | Cobalt | 0.0019J | mg/L | 0.0050 | 08/22/23 16:51 | |
| EPA 6020B | Lithium | 0.0012J | mg/L | 0.030 | 08/22/23 16:51 | |
| EPA 6020B | Molybdenum | 0.096 | mg/L | 0.010 | 08/22/23 16:51 | |
| SM 2540C-2015 | Total Dissolved Solids | 553 | mg/L | 25.0 | 08/15/23 16:57 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 199 | mg/L | 5.0 | 08/16/23 16:00 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 199 | mg/L | 5.0 | 08/16/23 16:00 | |
| SM 4500-S2D-2011 | Sulfide | 0.045J | mg/L | 0.10 | 08/15/23 06:30 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 62.5 | mg/L | 1.0 | 08/15/23 23:42 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.27 | mg/L | 0.10 | 08/15/23 23:42 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 123 | mg/L | 3.0 | 08/16/23 10:27 | |
| 92682397005 | HAM-MW-53 | | | | | |
| EPA 6020B | Boron | 1.5 | mg/L | 0.040 | 08/22/23 20:17 | |
| EPA 6020B | Molybdenum | 0.14 | mg/L | 0.010 | 08/22/23 20:17 | |
| 92682397006 | HAM-MW-54 | | | | | |
| EPA 6020B | Arsenic | 0.085 | mg/L | 0.010 | 08/22/23 20:23 | |
| EPA 6020B | Boron | 0.45 | mg/L | 0.040 | 08/22/23 20:23 | |
| 92682397007 | HAM-AP1-FD-06 | | | | | |
| EPA 6010D | Iron | 21.3 | mg/L | 0.040 | 08/23/23 21:54 | |
| EPA 6010D | Manganese | 6.8 | mg/L | 0.040 | 08/23/23 21:54 | |
| EPA 6010D | Potassium | 5.6 | mg/L | 0.50 | 08/23/23 21:54 | |
| EPA 6010D | Sodium | 6.3 | mg/L | 1.0 | 08/23/23 21:54 | |
| EPA 6010D | Calcium | 128 | mg/L | 1.0 | 08/23/23 21:54 | |
| EPA 6010D | Magnesium | 16.7 | mg/L | 0.050 | 08/23/23 21:54 | |
| EPA 6020B | Arsenic | 0.36 | mg/L | 0.010 | 08/22/23 20:29 | |

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|-----------|-------|--------------|----------------|------------|
| 92682397007 | HAM-AP1-FD-06 | | | | | |
| EPA 6020B | Barium | 0.047 | mg/L | 0.0050 | 08/22/23 20:29 | |
| EPA 6020B | Beryllium | 0.000065J | mg/L | 0.00050 | 08/22/23 20:29 | |
| EPA 6020B | Boron | 0.90 | mg/L | 0.040 | 08/22/23 20:29 | |
| EPA 6020B | Cobalt | 0.034 | mg/L | 0.0050 | 08/22/23 20:29 | |
| EPA 6020B | Lithium | 0.066 | mg/L | 0.030 | 08/22/23 20:29 | |
| EPA 6020B | Molybdenum | 0.0068J | mg/L | 0.010 | 08/22/23 20:29 | |
| SM 2540C-2015 | Total Dissolved Solids | 699 | mg/L | 25.0 | 08/15/23 16:57 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 111 | mg/L | 5.0 | 08/16/23 16:12 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 111 | mg/L | 5.0 | 08/16/23 16:12 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 14.6 | mg/L | 1.0 | 08/16/23 03:19 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.29 | mg/L | 0.10 | 08/16/23 03:19 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 293 | mg/L | 6.0 | 08/16/23 12:22 | |
| 92682397008 | HAM-AP1-FB-06 | | | | | |
| EPA 6020B | Boron | 0.012J | mg/L | 0.040 | 08/22/23 20:35 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

Sample: HAM-PT-07 Lab ID: 92682397001 Collected: 08/09/23 17:59 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------|-----|----|----------|----------|---------|------|
| | | | Limit | MDL | DF | | | | |

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|-----------|------|------|-------|-------|---|----------------|----------------|-----------|--|
| Iron | 27.1 | mg/L | 0.040 | 0.025 | 1 | 08/18/23 10:36 | 08/18/23 21:03 | 7439-89-6 | |
| Manganese | 7.6 | mg/L | 0.040 | 0.011 | 1 | 08/18/23 10:36 | 08/18/23 21:03 | 7439-96-5 | |
| Potassium | 6.8 | mg/L | 0.50 | 0.15 | 1 | 08/18/23 10:36 | 08/18/23 21:03 | 7440-09-7 | |
| Sodium | 7.2 | mg/L | 1.0 | 0.58 | 1 | 08/18/23 10:36 | 08/18/23 21:03 | 7440-23-5 | |
| Calcium | 173 | mg/L | 1.0 | 0.12 | 1 | 08/18/23 10:36 | 08/18/23 21:03 | 7440-70-2 | |
| Magnesium | 19.4 | mg/L | 0.050 | 0.012 | 1 | 08/18/23 10:36 | 08/18/23 21:03 | 7439-95-4 | |

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|------------|-----------|------|---------|----------|---|----------------|----------------|-----------|--|
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/16/23 14:27 | 08/22/23 16:32 | 7440-36-0 | |
| Arsenic | 0.27 | mg/L | 0.010 | 0.0037 | 1 | 08/16/23 14:27 | 08/22/23 16:32 | 7440-38-2 | |
| Barium | 0.053 | mg/L | 0.0050 | 0.00067 | 1 | 08/16/23 14:27 | 08/22/23 16:32 | 7440-39-3 | |
| Beryllium | 0.000095J | mg/L | 0.00050 | 0.000054 | 1 | 08/16/23 14:27 | 08/22/23 16:32 | 7440-41-7 | |
| Boron | 0.93 | mg/L | 0.040 | 0.0086 | 1 | 08/16/23 14:27 | 08/23/23 13:17 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/16/23 14:27 | 08/22/23 16:32 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/16/23 14:27 | 08/23/23 13:17 | 7440-47-3 | |
| Cobalt | 0.090 | mg/L | 0.0050 | 0.00039 | 1 | 08/16/23 14:27 | 08/23/23 13:17 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/16/23 14:27 | 08/22/23 16:32 | 7439-92-1 | |
| Lithium | 0.069 | mg/L | 0.030 | 0.00073 | 1 | 08/16/23 14:27 | 08/23/23 13:17 | 7439-93-2 | |
| Molybdenum | 0.012 | mg/L | 0.010 | 0.00074 | 1 | 08/16/23 14:27 | 08/22/23 16:32 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/16/23 14:27 | 08/22/23 16:32 | 7782-49-2 | |
| Thallium | 0.00022J | mg/L | 0.0010 | 0.00018 | 1 | 08/16/23 14:27 | 08/22/23 16:32 | 7440-28-0 | |

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|---------|----|------|---------|---------|---|----------------|----------------|-----------|--|
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/17/23 12:00 | 08/17/23 15:18 | 7439-97-6 | |
|---------|----|------|---------|---------|---|----------------|----------------|-----------|--|

2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|------------------------|-----|------|------|------|---|--|----------------|--|--|
| Total Dissolved Solids | 771 | mg/L | 25.0 | 25.0 | 1 | | 08/15/23 16:56 | | |
|------------------------|-----|------|------|------|---|--|----------------|--|--|

2320B Alkalinity

Analytical Method: SM 2320B-2011
Pace Analytical Services - Asheville

| | | | | | | | | | |
|--------------------------------|-----|------|-----|-----|---|--|----------------|--|--|
| Alkalinity,Bicarbonate (CaCO3) | 116 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 15:20 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 15:20 | | |
| Alkalinity, Total as CaCO3 | 116 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 15:20 | | |

4500S2D Sulfide Water

Analytical Method: SM 4500-S2D-2011
Pace Analytical Services - Asheville

| | | | | | | | | | |
|---------|----|------|------|-------|---|--|----------------|------------|--|
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:29 | 18496-25-8 | |
|---------|----|------|------|-------|---|--|----------------|------------|--|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|------|------|-----|------|---|--|----------------|------------|--|
| Chloride | 13.5 | mg/L | 1.0 | 0.60 | 1 | | 08/15/23 21:32 | 16887-00-6 | |
|----------|------|------|-----|------|---|--|----------------|------------|--|

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

Sample: HAM-PT-07 Lab ID: 92682397001 Collected: 08/09/23 17:59 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.28 | mg/L | 0.10 | 0.050 | 1 | | 08/15/23 21:32 | 16984-48-8 | |
| Sulfate | 339 | mg/L | 7.0 | 3.5 | 7 | | 08/16/23 08:19 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

Sample: HAM-PT-08 Lab ID: 92682397002 Collected: 08/09/23 10:50 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|-----------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 22.0 | mg/L | 0.040 | 0.025 | 1 | 08/18/23 10:36 | 08/18/23 21:13 | 7439-89-6 | |
| Manganese | 6.8 | mg/L | 0.040 | 0.011 | 1 | 08/18/23 10:36 | 08/18/23 21:13 | 7439-96-5 | |
| Potassium | 6.3 | mg/L | 0.50 | 0.15 | 1 | 08/18/23 10:36 | 08/18/23 21:13 | 7440-09-7 | |
| Sodium | 6.8 | mg/L | 1.0 | 0.58 | 1 | 08/18/23 10:36 | 08/18/23 21:13 | 7440-23-5 | |
| Calcium | 146 | mg/L | 1.0 | 0.12 | 1 | 08/18/23 10:36 | 08/18/23 21:13 | 7440-70-2 | |
| Magnesium | 17.3 | mg/L | 0.050 | 0.012 | 1 | 08/18/23 10:36 | 08/18/23 21:13 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7440-36-0 | |
| Arsenic | 0.32 | mg/L | 0.010 | 0.0037 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7440-38-2 | |
| Barium | 0.050 | mg/L | 0.0050 | 0.00067 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7440-39-3 | |
| Beryllium | 0.000073J | mg/L | 0.00050 | 0.000054 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7440-41-7 | |
| Boron | 0.99 | mg/L | 0.040 | 0.0086 | 1 | 08/16/23 14:27 | 08/23/23 13:23 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7440-47-3 | |
| Cobalt | 0.032 | mg/L | 0.0050 | 0.00039 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7439-92-1 | |
| Lithium | 0.073 | mg/L | 0.030 | 0.00073 | 1 | 08/16/23 14:27 | 08/23/23 13:23 | 7439-93-2 | |
| Molybdenum | 0.0071J | mg/L | 0.010 | 0.00074 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/17/23 12:00 | 08/17/23 15:34 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 682 | mg/L | 25.0 | 25.0 | 1 | | 08/15/23 16:57 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 118 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 15:40 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 15:40 | | |
| Alkalinity, Total as CaCO3 | 118 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 15:40 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:29 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 14.5 | mg/L | 1.0 | 0.60 | 1 | | 08/15/23 22:30 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

Sample: HAM-PT-08 **Lab ID: 92682397002** Collected: 08/09/23 10:50 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|----|
| Fluoride | 0.27 | mg/L | 0.10 | 0.050 | 1 | | 08/15/23 22:30 | 16984-48-8 | |
| Sulfate | 290 | mg/L | 6.0 | 3.0 | 6 | | 08/16/23 09:16 | 14808-79-8 | M1 |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Sample: HAM-PT-09 | Lab ID: 92682397003 | Collected: 08/09/23 14:42 | Received: 08/11/23 13:12 | Matrix: Water | | | | | |
|--|---------------------|---------------------------|--------------------------|---------------|----|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.10 | mg/L | 0.040 | 0.025 | 1 | 08/18/23 10:36 | 08/18/23 21:18 | 7439-89-6 | |
| Manganese | 0.51 | mg/L | 0.040 | 0.011 | 1 | 08/18/23 10:36 | 08/18/23 21:18 | 7439-96-5 | |
| Potassium | 7.7 | mg/L | 0.50 | 0.15 | 1 | 08/18/23 10:36 | 08/18/23 21:18 | 7440-09-7 | |
| Sodium | 10.3 | mg/L | 1.0 | 0.58 | 1 | 08/18/23 10:36 | 08/18/23 21:18 | 7440-23-5 | |
| Calcium | 136 | mg/L | 1.0 | 0.12 | 1 | 08/18/23 10:36 | 08/18/23 21:18 | 7440-70-2 | |
| Magnesium | 18.2 | mg/L | 0.050 | 0.012 | 1 | 08/18/23 10:36 | 08/18/23 21:18 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7440-38-2 | |
| Barium | 0.057 | mg/L | 0.0050 | 0.00067 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7440-41-7 | |
| Boron | 1.6 | mg/L | 0.40 | 0.086 | 10 | 08/16/23 14:27 | 08/23/23 19:25 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7440-47-3 | |
| Cobalt | 0.0028J | mg/L | 0.0050 | 0.00039 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7439-92-1 | |
| Lithium | 0.0017J | mg/L | 0.030 | 0.00073 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7439-93-2 | |
| Molybdenum | 0.21 | mg/L | 0.010 | 0.00074 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/17/23 12:00 | 08/17/23 15:37 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 594 | mg/L | 25.0 | 25.0 | 1 | | 08/15/23 16:57 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 150 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 15:50 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 15:50 | | |
| Alkalinity, Total as CaCO3 | 150 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 15:50 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:30 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 47.5 | mg/L | 1.0 | 0.60 | 1 | | 08/15/23 23:14 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

Sample: HAM-PT-09 Lab ID: 92682397003 Collected: 08/09/23 14:42 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.26 | mg/L | 0.10 | 0.050 | 1 | | 08/15/23 23:14 | 16984-48-8 | |
| Sulfate | 188 | mg/L | 4.0 | 2.0 | 4 | | 08/16/23 09:59 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Sample: HAM-PT-10 | | Lab ID: 92682397004 | | Collected: 08/09/23 13:05 | | Received: 08/11/23 13:12 | | Matrix: Water | |
|-------------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 2.9 | mg/L | 0.040 | 0.025 | 1 | 08/23/23 12:06 | 08/23/23 21:33 | 7439-89-6 | |
| Manganese | 3.1 | mg/L | 0.040 | 0.011 | 1 | 08/23/23 12:06 | 08/23/23 21:33 | 7439-96-5 | |
| Potassium | 6.7 | mg/L | 0.50 | 0.15 | 1 | 08/23/23 12:06 | 08/23/23 21:33 | 7440-09-7 | M1 |
| Sodium | 9.4 | mg/L | 1.0 | 0.58 | 1 | 08/23/23 12:06 | 08/23/23 21:33 | 7440-23-5 | M1 |
| Calcium | 116 | mg/L | 1.0 | 0.12 | 1 | 08/23/23 12:06 | 08/23/23 21:33 | 7440-70-2 | M1 |
| Magnesium | 16.8 | mg/L | 0.050 | 0.012 | 1 | 08/23/23 12:06 | 08/23/23 21:33 | 7439-95-4 | M1 |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7440-38-2 | |
| Barium | 0.070 | mg/L | 0.0050 | 0.00067 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7440-41-7 | |
| Boron | 2.1 | mg/L | 0.40 | 0.086 | 10 | 08/16/23 14:27 | 08/23/23 19:48 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7440-47-3 | |
| Cobalt | 0.0019J | mg/L | 0.0050 | 0.00039 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7439-92-1 | |
| Lithium | 0.0012J | mg/L | 0.030 | 0.00073 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7439-93-2 | |
| Molybdenum | 0.096 | mg/L | 0.010 | 0.00074 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/17/23 12:00 | 08/17/23 15:39 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 553 | mg/L | 25.0 | 25.0 | 1 | | 08/15/23 16:57 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 199 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 16:00 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 16:00 | | |
| Alkalinity, Total as CaCO3 | 199 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 16:00 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | 0.045J | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:30 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 62.5 | mg/L | 1.0 | 0.60 | 1 | | 08/15/23 23:42 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

Sample: HAM-PT-10 Lab ID: 92682397004 Collected: 08/09/23 13:05 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.27 | mg/L | 0.10 | 0.050 | 1 | | 08/15/23 23:42 | 16984-48-8 | |
| Sulfate | 123 | mg/L | 3.0 | 1.5 | 3 | | 08/16/23 10:27 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
 Pace Project No.: 92682397

| Sample: HAM-MW-53 | | Lab ID: 92682397005 | | Collected: 08/09/23 16:40 | Received: 08/11/23 13:12 | Matrix: Water | | | |
|--------------------------|---------|----------------------------|-----------------|---------------------------|--------------------------|---------------|----------|---------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
 Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|------------|-------------|------|-------|---------|---|----------------|----------------|-----------|--|
| Boron | 1.5 | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 10:25 | 08/22/23 20:17 | 7440-42-8 | |
| Molybdenum | 0.14 | mg/L | 0.010 | 0.00074 | 1 | 08/17/23 10:25 | 08/22/23 20:17 | 7439-98-7 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

Sample: HAM-MW-54 Lab ID: 92682397006 Collected: 08/09/23 16:51 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|---------|--------------|------|-------|--------|---|----------------|----------------|-----------|--|
| Arsenic | 0.085 | mg/L | 0.010 | 0.0037 | 1 | 08/17/23 10:25 | 08/22/23 20:23 | 7440-38-2 | |
| Boron | 0.45 | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 10:25 | 08/22/23 20:23 | 7440-42-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Sample: HAM-AP1-FD-06 | | Lab ID: 92682397007 | | Collected: 08/09/23 00:00 | | Received: 08/11/23 13:12 | | Matrix: Water | |
|-------------------------------------|----------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 21.3 | mg/L | 0.040 | 0.025 | 1 | 08/23/23 12:06 | 08/23/23 21:54 | 7439-89-6 | |
| Manganese | 6.8 | mg/L | 0.040 | 0.011 | 1 | 08/23/23 12:06 | 08/23/23 21:54 | 7439-96-5 | |
| Potassium | 5.6 | mg/L | 0.50 | 0.15 | 1 | 08/23/23 12:06 | 08/23/23 21:54 | 7440-09-7 | |
| Sodium | 6.3 | mg/L | 1.0 | 0.58 | 1 | 08/23/23 12:06 | 08/23/23 21:54 | 7440-23-5 | |
| Calcium | 128 | mg/L | 1.0 | 0.12 | 1 | 08/23/23 12:06 | 08/23/23 21:54 | 7440-70-2 | |
| Magnesium | 16.7 | mg/L | 0.050 | 0.012 | 1 | 08/23/23 12:06 | 08/23/23 21:54 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7440-36-0 | |
| Arsenic | 0.36 | mg/L | 0.010 | 0.0037 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7440-38-2 | |
| Barium | 0.047 | mg/L | 0.0050 | 0.00067 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7440-39-3 | |
| Beryllium | 0.00065J | mg/L | 0.00050 | 0.000054 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7440-41-7 | |
| Boron | 0.90 | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/17/23 10:25 | 08/23/23 17:24 | 7440-47-3 | |
| Cobalt | 0.034 | mg/L | 0.0050 | 0.00039 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7439-92-1 | |
| Lithium | 0.066 | mg/L | 0.030 | 0.00073 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7439-93-2 | |
| Molybdenum | 0.0068J | mg/L | 0.010 | 0.00074 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/17/23 12:00 | 08/17/23 15:42 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 699 | mg/L | 25.0 | 25.0 | 1 | | 08/15/23 16:57 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 111 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 16:12 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 16:12 | | |
| Alkalinity, Total as CaCO3 | 111 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 16:12 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:31 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 14.6 | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 03:19 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

Sample: HAM-AP1-FD-06 Lab ID: 92682397007 Collected: 08/09/23 00:00 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.29 | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 03:19 | 16984-48-8 | |
| Sulfate | 293 | mg/L | 6.0 | 3.0 | 6 | | 08/16/23 12:22 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Sample: HAM-AP1-FB-06 | | Lab ID: 92682397008 | | Collected: 08/09/23 16:50 | | Received: 08/11/23 13:12 | | Matrix: Water | |
|-------------------------------------|---------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 08/23/23 12:06 | 08/23/23 21:59 | 7439-89-6 | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 08/23/23 12:06 | 08/23/23 21:59 | 7439-96-5 | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 08/23/23 12:06 | 08/23/23 21:59 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 08/23/23 12:06 | 08/23/23 21:59 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 08/23/23 12:06 | 08/23/23 21:59 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 08/23/23 12:06 | 08/23/23 21:59 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00067 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7440-41-7 | |
| Boron | 0.012J | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/17/23 10:25 | 08/23/23 17:28 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/17/23 12:00 | 08/17/23 15:44 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 08/15/23 16:57 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 16:22 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 16:22 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 16:22 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:32 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 03:33 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

Sample: HAM-AP1-FB-06 Lab ID: 92682397008 Collected: 08/09/23 16:50 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|----|------|------|-------|---|--|----------------|------------|--|
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 03:33 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 08/16/23 03:33 | 14808-79-8 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 793618 | Analysis Method: | EPA 6010D |
| QC Batch Method: | EPA 3010A | Analysis Description: | 6010D ATL |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92682397001, 92682397002, 92682397003

METHOD BLANK: 4112489 Matrix: Water

Associated Lab Samples: 92682397001, 92682397002, 92682397003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 08/18/23 19:00 | |
| Iron | mg/L | ND | 0.040 | 0.025 | 08/18/23 19:00 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 08/18/23 19:00 | |
| Manganese | mg/L | ND | 0.040 | 0.011 | 08/18/23 19:00 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 08/18/23 19:00 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 08/18/23 19:00 | |

LABORATORY CONTROL SAMPLE: 4112490

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 1 | 1.1 | 108 | 80-120 | |
| Iron | mg/L | 1 | 1.0 | 102 | 80-120 | |
| Magnesium | mg/L | 1 | 1.0 | 101 | 80-120 | |
| Manganese | mg/L | 1 | 0.99 | 99 | 80-120 | |
| Potassium | mg/L | 1 | 1.1 | 106 | 80-120 | |
| Sodium | mg/L | 1 | 1.1 | 106 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112491 4112492

| Parameter | Units | 92682392001 | | 4112491 | | 4112492 | | % Rec | % Rec | % Rec | Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|-------|--------|-------|--------|-----|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | | | | | | | |
| Calcium | mg/L | 8.4 | 1 | 1 | 8.8 | 9.3 | 35 | 92 | 75-125 | 6 | 20 | M1 | | |
| Iron | mg/L | ND | 1 | 1 | 1.0 | 1.0 | 100 | 100 | 75-125 | 0 | 20 | | | |
| Magnesium | mg/L | 3.4 | 1 | 1 | 4.1 | 4.3 | 72 | 92 | 75-125 | 5 | 20 | M1 | | |
| Manganese | mg/L | ND | 1 | 1 | 0.98 | 0.99 | 97 | 98 | 75-125 | 1 | 20 | | | |
| Potassium | mg/L | 0.32J | 1 | 1 | 1.3 | 1.5 | 102 | 113 | 75-125 | 8 | 20 | | | |
| Sodium | mg/L | 9.5 | 1 | 1 | 10 | 10.5 | 44 | 103 | 75-125 | 6 | 20 | M1 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| | | | |
|-------------------------|---------------------------------------|-----------------------|--|
| QC Batch: | 795409 | Analysis Method: | EPA 6010D |
| QC Batch Method: | EPA 3010A | Analysis Description: | 6010D ATL |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |
| Associated Lab Samples: | 92682397004, 92682397007, 92682397008 | | |

METHOD BLANK: 4121384 Matrix: Water

Associated Lab Samples: 92682397004, 92682397007, 92682397008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 08/23/23 21:12 | |
| Iron | mg/L | ND | 0.040 | 0.025 | 08/23/23 21:12 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 08/23/23 21:12 | |
| Manganese | mg/L | ND | 0.040 | 0.011 | 08/23/23 21:12 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 08/23/23 21:12 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 08/23/23 21:12 | |

LABORATORY CONTROL SAMPLE: 4121385

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 1 | 0.93J | 93 | 80-120 | |
| Iron | mg/L | 1 | 1.0 | 102 | 80-120 | |
| Magnesium | mg/L | 1 | 1.1 | 109 | 80-120 | |
| Manganese | mg/L | 1 | 1.0 | 105 | 80-120 | |
| Potassium | mg/L | 1 | 1.0 | 100 | 80-120 | |
| Sodium | mg/L | 1 | 1.1 | 105 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4121386 4121387

| Parameter | Units | 4121386 | | 4121387 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Calcium | mg/L | 116 | 1 | 112 | 116 | -370 | -33 | 75-125 | 3 | 20 | M1 |
| Iron | mg/L | 2.9 | 1 | 3.7 | 3.8 | 84 | 95 | 75-125 | 3 | 20 | |
| Magnesium | mg/L | 16.8 | 1 | 17.0 | 17.5 | 22 | 63 | 75-125 | 2 | 20 | M1 |
| Manganese | mg/L | 3.1 | 1 | 4.0 | 4.0 | 83 | 90 | 75-125 | 2 | 20 | |
| Potassium | mg/L | 6.7 | 1 | 7.5 | 7.7 | 73 | 98 | 75-125 | 3 | 20 | M1 |
| Sodium | mg/L | 9.4 | 1 | 9.9 | 10.3 | 54 | 92 | 75-125 | 4 | 20 | M1 |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 794002 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6020 MET |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004

METHOD BLANK: 4114214 Matrix: Water

Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | 0.0043 | 0.0030 | 0.0012 | 08/22/23 15:04 | |
| Arsenic | mg/L | ND | 0.010 | 0.0037 | 08/22/23 15:04 | |
| Barium | mg/L | ND | 0.0050 | 0.00067 | 08/22/23 15:04 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000054 | 08/22/23 15:04 | |
| Boron | mg/L | ND | 0.040 | 0.0086 | 08/22/23 15:04 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00011 | 08/22/23 15:04 | |
| Chromium | mg/L | ND | 0.0050 | 0.0011 | 08/22/23 15:04 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00039 | 08/22/23 15:04 | |
| Lead | mg/L | ND | 0.0010 | 0.00012 | 08/22/23 15:04 | |
| Lithium | mg/L | ND | 0.030 | 0.00073 | 08/22/23 15:04 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00074 | 08/22/23 15:04 | |
| Selenium | mg/L | ND | 0.0050 | 0.0014 | 08/22/23 15:04 | |
| Thallium | mg/L | ND | 0.0010 | 0.00018 | 08/22/23 15:04 | |

LABORATORY CONTROL SAMPLE: 4114215

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.11 | 112 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.11 | 110 | 80-120 | |
| Boron | mg/L | 1 | 1.1 | 110 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.11 | 106 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Lead | mg/L | 0.1 | 0.10 | 105 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.11 | 110 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.11 | 107 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.11 | 105 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.11 | 105 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4114216 4114217

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|----------|-----------|--------------|--------|---------|------|
| | | 92682396010 | Result | Spike Conc. | Spike Conc. | | | | | | |
| Antimony | mg/L | 0.0014J | 0.1 | 0.1 | 0.11 | 0.10 | 107 | 101 | 75-125 | 6 | 20 |
| Arsenic | mg/L | 0.0040J | 0.1 | 0.1 | 0.12 | 0.11 | 112 | 104 | 75-125 | 7 | 20 |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Parameter | Units | 4114216 | | 4114217 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 92682396010 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Barium | mg/L | 0.042 | 0.1 | 0.1 | 0.16 | 0.15 | 118 | 108 | 75-125 | 6 | 20 | | |
| Beryllium | mg/L | 0.00071 | 0.1 | 0.1 | 0.090 | 0.085 | 89 | 84 | 75-125 | 6 | 20 | | |
| Boron | mg/L | 10.1 | 1 | 1 | 10.9 | 10.7 | 77 | 57 | 75-125 | 2 | 20 | M1 | |
| Cadmium | mg/L | 0.00059 | 0.1 | 0.1 | 0.099 | 0.094 | 98 | 94 | 75-125 | 5 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.097 | 104 | 97 | 75-125 | 7 | 20 | | |
| Cobalt | mg/L | 0.21 | 0.1 | 0.1 | 0.31 | 0.29 | 102 | 83 | 75-125 | 6 | 20 | | |
| Lead | mg/L | 0.00013J | 0.1 | 0.1 | 0.067 | 0.064 | 67 | 64 | 75-125 | 5 | 20 | M1 | |
| Lithium | mg/L | 0.0024J | 0.1 | 0.1 | 0.097 | 0.092 | 95 | 89 | 75-125 | 6 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.10 | 109 | 104 | 75-125 | 5 | 20 | | |
| Selenium | mg/L | 0.013 | 0.1 | 0.1 | 0.13 | 0.13 | 122 | 113 | 75-125 | 8 | 20 | | |
| Thallium | mg/L | 0.00021J | 0.1 | 0.1 | 0.069 | 0.066 | 68 | 65 | 75-125 | 5 | 20 | M1 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 794177 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6020 MET |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92682397005, 92682397006, 92682397007, 92682397008

METHOD BLANK: 4115107 Matrix: Water

Associated Lab Samples: 92682397005, 92682397006, 92682397007, 92682397008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.0012 | 08/22/23 18:42 | |
| Arsenic | mg/L | ND | 0.010 | 0.0037 | 08/22/23 18:42 | |
| Barium | mg/L | ND | 0.0050 | 0.00067 | 08/22/23 18:42 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000054 | 08/22/23 18:42 | |
| Boron | mg/L | ND | 0.040 | 0.0086 | 08/22/23 18:42 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00011 | 08/22/23 18:42 | |
| Chromium | mg/L | ND | 0.0050 | 0.0011 | 08/23/23 16:28 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00039 | 08/22/23 18:42 | |
| Lead | mg/L | ND | 0.0010 | 0.00012 | 08/22/23 18:42 | |
| Lithium | mg/L | ND | 0.030 | 0.00073 | 08/22/23 18:42 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00074 | 08/22/23 18:42 | |
| Selenium | mg/L | ND | 0.0050 | 0.0014 | 08/22/23 18:42 | |
| Thallium | mg/L | ND | 0.0010 | 0.00018 | 08/22/23 18:42 | |

LABORATORY CONTROL SAMPLE: 4115108

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.094 | 94 | 80-120 | |
| Barium | mg/L | 0.1 | 0.096 | 96 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.093 | 93 | 80-120 | |
| Boron | mg/L | 1 | 0.94 | 94 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.096 | 96 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.090 | 90 | 80-120 | |
| Lead | mg/L | 0.1 | 0.094 | 94 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.095 | 95 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.097 | 97 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.093 | 93 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4115109 4115110

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92681886001 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 104 | 103 | 75-125 | 1 | 20 | | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.098 | 99 | 98 | 75-125 | 1 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Parameter | Units | 4115109 | | 4115110 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 92681886001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Barium | mg/L | 0.039 | 0.1 | 0.1 | 0.14 | 0.14 | 103 | 103 | 75-125 | 1 | 20 | | |
| Beryllium | mg/L | 0.000067J | 0.1 | 0.1 | 0.094 | 0.091 | 94 | 91 | 75-125 | 4 | 20 | | |
| Boron | mg/L | 0.029J | 1 | 1 | 0.97 | 0.94 | 94 | 91 | 75-125 | 3 | 20 | | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.098 | 0.099 | 98 | 99 | 75-125 | 1 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 101 | 75-125 | 1 | 20 | | |
| Cobalt | mg/L | 0.00041J | 0.1 | 0.1 | 0.092 | 0.091 | 91 | 91 | 75-125 | 0 | 20 | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.093 | 0.092 | 93 | 92 | 75-125 | 1 | 20 | | |
| Lithium | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.094 | 95 | 93 | 75-125 | 2 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.096 | 0.096 | 96 | 95 | 75-125 | 0 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.099 | 100 | 99 | 75-125 | 1 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.092 | 0.092 | 92 | 92 | 75-125 | 0 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| | | | |
|-------------------------|--|-----------------------|--|
| QC Batch: | 794154 | Analysis Method: | EPA 7470A |
| QC Batch Method: | EPA 7470A | Analysis Description: | 7470 Mercury |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |
| Associated Lab Samples: | 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008 | | |

METHOD BLANK: 4115033 Matrix: Water
 Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00020 | 0.00013 | 08/17/23 15:13 | |

LABORATORY CONTROL SAMPLE: 4115034

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0023 | 93 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4115035 4115036

| Parameter | Units | 4115035 | | 4115036 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Mercury | mg/L | ND | 0.0025 | 0.0024 | 0.0024 | 94 | 94 | 75-125 | 0 | 20 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| | | | |
|------------------|---------------|-----------------------|--|
| QC Batch: | 793700 | Analysis Method: | SM 2540C-2015 |
| QC Batch Method: | SM 2540C-2015 | Analysis Description: | 2540C Total Dissolved Solids |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

METHOD BLANK: 4112841 Matrix: Water
 Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 08/15/23 16:52 | |

LABORATORY CONTROL SAMPLE: 4112842

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 446 | 112 | 80-120 | |

SAMPLE DUPLICATE: 4112843

| Parameter | Units | 92682396001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 1890 | 1910 | 1 | 10 | |

SAMPLE DUPLICATE: 4112844

| Parameter | Units | 92682397001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 771 | 760 | 1 | 10 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

QC Batch: 793896 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

METHOD BLANK: 4113632 Matrix: Water
 Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 08/16/23 13:58 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 08/16/23 13:58 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 08/16/23 13:58 | |

LABORATORY CONTROL SAMPLE: 4113633

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.1 | 104 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4113634

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 55.0 | 110 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4113635 4113636

| Parameter | Units | 92682175001 | | 92682175002 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------|----------------|-----------------|-----------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 464 | 50 | 50 | 487 | 487 | 47 | 46 | 80-120 | 0 | 25 | M1 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4113637 4113638

| Parameter | Units | 92682175002 | | 92682175001 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------|----------------|-----------------|-----------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 12.5 | 50 | 50 | 65.7 | 65.4 | 106 | 106 | 80-120 | 0 | 25 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

QC Batch: 793500 Analysis Method: SM 4500-S2D-2011
 QC Batch Method: SM 4500-S2D-2011 Analysis Description: 4500S2D Sulfide Water
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

METHOD BLANK: 4111958 Matrix: Water
 Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide | mg/L | ND | 0.10 | 0.022 | 08/15/23 06:24 | |

LABORATORY CONTROL SAMPLE: 4111959

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide | mg/L | 0.5 | 0.50 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4111960 4111961

| Parameter | Units | 92682396005 | | 4111961 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-----------------|-----------|-----------------|-------|-------|--------------|--------|---------|-------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.50 | 0.45 | 99 | 89 | 80-120 | 11 | 10 R1 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4111962 4111963

| Parameter | Units | 92682397007 | | 4111963 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-----------------|-----------|-----------------|-------|-------|--------------|--------|---------|------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.53 | 0.55 | 104 | 108 | 80-120 | 4 | 10 |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| | | | |
|------------------|------------------------|-----------------------|--------------------------------------|
| QC Batch: | 793550 | Analysis Method: | EPA 300.0 Rev 2.1 1993 |
| QC Batch Method: | EPA 300.0 Rev 2.1 1993 | Analysis Description: | 300.0 IC Anions |
| | | Laboratory: | Pace Analytical Services - Asheville |

Associated Lab Samples: 92682397001

METHOD BLANK: 4112126 Matrix: Water

Associated Lab Samples: 92682397001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 08/15/23 12:46 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 08/15/23 12:46 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 08/15/23 12:46 | |

LABORATORY CONTROL SAMPLE: 4112127

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 48.4 | 97 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.5 | 98 | 90-110 | |
| Sulfate | mg/L | 50 | 47.4 | 95 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112128 4112129

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92682198001 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Chloride | mg/L | ND | 50 | 50 | 50 | 48.0 | 48.3 | 95 | 96 | 90-110 | 1 | 10 | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.5 | 2.4 | 2.4 | 94 | 95 | 90-110 | 1 | 10 | |
| Sulfate | mg/L | ND | 50 | 50 | 50 | 47.3 | 47.6 | 93 | 94 | 90-110 | 1 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112130 4112131

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92682396003 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Chloride | mg/L | 141 | 141 | 50 | 50 | 179 | 180 | 77 | 78 | 90-110 | 0 | 10 M1 | |
| Fluoride | mg/L | 0.56 | 0.56 | 2.5 | 2.5 | 3.1 | 3.2 | 102 | 104 | 90-110 | 2 | 10 | |
| Sulfate | mg/L | 762 | 762 | 50 | 50 | 787 | 789 | 50 | 53 | 90-110 | 0 | 10 M1 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

QC Batch: 793553 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

METHOD BLANK: 4112135 Matrix: Water
 Associated Lab Samples: 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 08/15/23 22:01 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 08/15/23 22:01 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 08/15/23 22:01 | |

LABORATORY CONTROL SAMPLE: 4112136

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 49.5 | 99 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.5 | 100 | 90-110 | |
| Sulfate | mg/L | 50 | 48.3 | 97 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112137 4112138

| Parameter | Units | 92682397002 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|-----------|------------|----------|-----------|--------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | | | | | |
| Chloride | mg/L | 14.5 | 50 | 50 | 62.4 | 63.0 | 96 | 97 | 90-110 | 1 | 10 | | |
| Fluoride | mg/L | 0.27 | 2.5 | 2.5 | 2.6 | 2.6 | 92 | 93 | 90-110 | 2 | 10 | | |
| Sulfate | mg/L | 290 | 50 | 50 | 327 | 328 | 73 | 75 | 90-110 | 0 | 10 | M1 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112139 4112140

| Parameter | Units | 92682398009 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|-----------|------------|----------|-----------|--------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | | | | | |
| Chloride | mg/L | 13.6 | 50 | 50 | 61.8 | 62.0 | 96 | 97 | 90-110 | 0 | 10 | | |
| Fluoride | mg/L | 1.5 | 2.5 | 2.5 | 3.8 | 3.9 | 95 | 96 | 90-110 | 1 | 10 | | |
| Sulfate | mg/L | 0.62J | 50 | 50 | 47.3 | 47.5 | 93 | 94 | 90-110 | 1 | 10 | | |

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QUALIFIERS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|------------------------|----------|-------------------|------------------|
| 92682397001 | HAM-PT-07 | EPA 3010A | 793618 | EPA 6010D | 794582 |
| 92682397002 | HAM-PT-08 | EPA 3010A | 793618 | EPA 6010D | 794582 |
| 92682397003 | HAM-PT-09 | EPA 3010A | 793618 | EPA 6010D | 794582 |
| 92682397004 | HAM-PT-10 | EPA 3010A | 795409 | EPA 6010D | 795455 |
| 92682397007 | HAM-AP1-FD-06 | EPA 3010A | 795409 | EPA 6010D | 795455 |
| 92682397008 | HAM-AP1-FB-06 | EPA 3010A | 795409 | EPA 6010D | 795455 |
| 92682397001 | HAM-PT-07 | EPA 3005A | 794002 | EPA 6020B | 794064 |
| 92682397002 | HAM-PT-08 | EPA 3005A | 794002 | EPA 6020B | 794064 |
| 92682397003 | HAM-PT-09 | EPA 3005A | 794002 | EPA 6020B | 794064 |
| 92682397004 | HAM-PT-10 | EPA 3005A | 794002 | EPA 6020B | 794064 |
| 92682397005 | HAM-MW-53 | EPA 3005A | 794177 | EPA 6020B | 794304 |
| 92682397006 | HAM-MW-54 | EPA 3005A | 794177 | EPA 6020B | 794304 |
| 92682397007 | HAM-AP1-FD-06 | EPA 3005A | 794177 | EPA 6020B | 794304 |
| 92682397008 | HAM-AP1-FB-06 | EPA 3005A | 794177 | EPA 6020B | 794304 |
| 92682397001 | HAM-PT-07 | EPA 7470A | 794154 | EPA 7470A | 794256 |
| 92682397002 | HAM-PT-08 | EPA 7470A | 794154 | EPA 7470A | 794256 |
| 92682397003 | HAM-PT-09 | EPA 7470A | 794154 | EPA 7470A | 794256 |
| 92682397004 | HAM-PT-10 | EPA 7470A | 794154 | EPA 7470A | 794256 |
| 92682397007 | HAM-AP1-FD-06 | EPA 7470A | 794154 | EPA 7470A | 794256 |
| 92682397008 | HAM-AP1-FB-06 | EPA 7470A | 794154 | EPA 7470A | 794256 |
| 92682397001 | HAM-PT-07 | SM 2540C-2015 | 793700 | | |
| 92682397002 | HAM-PT-08 | SM 2540C-2015 | 793700 | | |
| 92682397003 | HAM-PT-09 | SM 2540C-2015 | 793700 | | |
| 92682397004 | HAM-PT-10 | SM 2540C-2015 | 793700 | | |
| 92682397007 | HAM-AP1-FD-06 | SM 2540C-2015 | 793700 | | |
| 92682397008 | HAM-AP1-FB-06 | SM 2540C-2015 | 793700 | | |
| 92682397001 | HAM-PT-07 | SM 2320B-2011 | 793896 | | |
| 92682397002 | HAM-PT-08 | SM 2320B-2011 | 793896 | | |
| 92682397003 | HAM-PT-09 | SM 2320B-2011 | 793896 | | |
| 92682397004 | HAM-PT-10 | SM 2320B-2011 | 793896 | | |
| 92682397007 | HAM-AP1-FD-06 | SM 2320B-2011 | 793896 | | |
| 92682397008 | HAM-AP1-FB-06 | SM 2320B-2011 | 793896 | | |
| 92682397001 | HAM-PT-07 | SM 4500-S2D-2011 | 793500 | | |
| 92682397002 | HAM-PT-08 | SM 4500-S2D-2011 | 793500 | | |
| 92682397003 | HAM-PT-09 | SM 4500-S2D-2011 | 793500 | | |
| 92682397004 | HAM-PT-10 | SM 4500-S2D-2011 | 793500 | | |
| 92682397007 | HAM-AP1-FD-06 | SM 4500-S2D-2011 | 793500 | | |
| 92682397008 | HAM-AP1-FB-06 | SM 4500-S2D-2011 | 793500 | | |
| 92682397001 | HAM-PT-07 | EPA 300.0 Rev 2.1 1993 | 793550 | | |
| 92682397002 | HAM-PT-08 | EPA 300.0 Rev 2.1 1993 | 793553 | | |
| 92682397003 | HAM-PT-09 | EPA 300.0 Rev 2.1 1993 | 793553 | | |
| 92682397004 | HAM-PT-10 | EPA 300.0 Rev 2.1 1993 | 793553 | | |
| 92682397007 | HAM-AP1-FD-06 | EPA 300.0 Rev 2.1 1993 | 793553 | | |
| 92682397008 | HAM-AP1-FB-06 | EPA 300.0 Rev 2.1 1993 | 793553 | | |

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #

WO# 92682397



Courier: Commercial Fed Ex UPS USPS Client Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 8/11/23

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer: IR Gun ID: 230

Type of Ice: Wet Blue None

Cooler Temp: 3.1 Correction Factor: 0.0 Add/Subtract (°C)

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.1

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| Chain of Custody Present? | Yes | No | N/A | 1. | Comments/Discrepancy: |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-----|-----------------------|
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. | |
| Short Hold Time Analysis (<72 hr.)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. | |
| Rush Turn Around Time Requested? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4. | |
| Sufficient Volume? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. | |
| Correct Containers Used? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. | |
| -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"/> | 7. | |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 8. | |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9. | |
| -Includes Date/Time/ID/Analysis Matrix: | W | | | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 10. | |
| Trip Blank Present? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 11. | |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

WO# 92682397
 PM: BV Due Date: 08/28/23
 CLIENT: 92- GRAHAM

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation Vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|
| 1 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:
 Computer: GA Power
 Address: Atlanta, GA

Section B Required Project Information:
 Report To: SCS Contacts
 Copy To: Geosyntec Contacts

Section C Invoice Information:
 Attention: Southern Co.
 Address:
 Company Name:
 Site Location:
 State: GA

Page: 1 of 1

Section D Required Client Information:
 Email To: SCS Contacts
 Phone:
 Requested Date Delivered: 10 day

Purchase Order No.:
 Project Name: Hammond AP-1
 Project Number:
 Address:
 Site Location:
 State: GA

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER CRP

| ITEM # | Section D Required Client Information | Valid Matrix Codes MATRIX CODE | Section D Required Client Information | Valid Matrix Codes CODE | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | Analysis Test | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Other |
|--------|--|-----------------------------------|--|----------------------------|---------------------------------------|-----------------------------|-----------|------|---------------------------|-----------------|---------------|---------------|-----------------------------------|-------------------------|-------|
| | | | | | | | DATE | TIME | | | | | | | |
| 1 | HAM-PT-07 | WG | G | 8/8/2023 | 1739 | | | | 21 | 5 | 3 | 1 | 1 | | |
| 2 | HAM-PT-08 | WG | G | 8/8/2023 | 1050 | | | | 21 | 5 | 3 | 1 | 1 | | |
| 3 | HAM-PT-09 | WG | G | 8/8/2023 | 1442 | | | | 22 | 5 | 3 | 1 | 1 | | |
| 4 | HAM-PT-10 | WG | G | 8/9/2023 | 1305 | | | | 22 | 5 | 3 | 1 | 1 | | |
| 5 | HAM-MW-53 | WG | G | 8/9/2023 | 1640 | | | | 20 | 1 | 1 | 1 | 1 | | |
| 6 | HAM-MW-54 | WG | G | 8/9/2023 | 1651 | | | | 23 | 1 | 1 | 1 | 1 | | |
| 7 | HAM-AP1-FD-06 | WG | G | 8/9/2023 | 0000 | | | | 22 | 5 | 3 | 1 | 1 | | |
| 8 | HAM-AP1-FB-06 | WG | G | 8/9/2023 | 1650 | | | | 22 | 5 | 3 | 1 | 1 | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |

ADDITIONAL COMMENTS
 RELINQUISHED BY / AFFILIATION:
 DATE: 8/11/2023
 TIME: 1535
 ACCEPTED BY / AFFILIATION:
 DATE: 8/11/2023
 TIME: 1535

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER:
 SIGNATURE of SAMPLER:
 DATE Signed:
 (MANDATORY):

Temp in °C:
 Received on Ice (Y/N):
 Custody Sealed Cooler (Y/N):
 Samples Intact (Y/N):

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

FALL-Q-020rev. 07, 15-Feb-2007

Field Sampling Forms

Low-Flow Test Report:

Test Date / Time: 7/13/2023 3:37:26 PM

Project: GW6581

Operator Name: Alana Neely

| | | |
|---|---|--|
| Location Name: PT-07 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 38.6 ft Total Depth: 48.6 ft Initial Depth to Water: 25.3 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 43.6 ft Estimated Total Volume Pumped: 9 L Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 400 Serial Number: 884187 |
|---|---|--|

Test Notes:

Five bottles: Full App III and IV and Geochem

Weather Conditions:

73-91 deg F sunny

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 7/13/2023 3:37 PM | 00:00 | 6.80 pH | 28.25 °C | 1,056.0 µS/cm | 1.39 mg/L | 21.70 NTU | -108.6 mV | 25.30 ft | 200.00 ml/min |
| 7/13/2023 3:42 PM | 05:00 | 6.81 pH | 26.88 °C | 1,079.0 µS/cm | 0.68 mg/L | 21.30 NTU | -111.1 mV | 25.30 ft | 200.00 ml/min |
| 7/13/2023 3:47 PM | 10:00 | 6.82 pH | 26.52 °C | 1,072.1 µS/cm | 0.49 mg/L | 18.70 NTU | -127.0 mV | 25.30 ft | 200.00 ml/min |
| 7/13/2023 3:52 PM | 15:00 | 6.80 pH | 27.35 °C | 1,080.9 µS/cm | 0.48 mg/L | 16.00 NTU | -128.2 mV | 25.30 ft | 200.00 ml/min |
| 7/13/2023 3:57 PM | 20:00 | 6.77 pH | 27.44 °C | 979.74 µS/cm | 0.41 mg/L | 9.81 NTU | -113.5 mV | 25.30 ft | 200.00 ml/min |
| 7/13/2023 4:02 PM | 25:00 | 6.76 pH | 27.85 °C | 1,068.5 µS/cm | 0.35 mg/L | 9.08 NTU | -126.8 mV | 25.30 ft | 200.00 ml/min |
| 7/13/2023 4:07 PM | 30:00 | 6.76 pH | 27.68 °C | 1,061.0 µS/cm | 0.32 mg/L | 6.69 NTU | -111.9 mV | 25.30 ft | 200.00 ml/min |
| 7/13/2023 4:12 PM | 35:00 | 6.75 pH | 27.81 °C | 1,069.4 µS/cm | 0.29 mg/L | 6.01 NTU | -125.6 mV | 25.30 ft | 200.00 ml/min |
| 7/13/2023 4:17 PM | 40:00 | 6.76 pH | 27.26 °C | 1,064.5 µS/cm | 0.30 mg/L | 4.91 NTU | -111.0 mV | 25.30 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-07 | Grab. |

HAM-AP1-FD-01

Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/13/2023 5:11:34 PM

Project: GW6581

Operator Name: Alana Neely

| | | |
|---|---|--|
| Location Name: PT-08 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33 ft Total Depth: 43 ft Initial Depth to Water: 22.2 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 8 L Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.1 ft | Instrument Used: Aqua TROLL 400 Serial Number: 884187 |
|---|---|--|

Test Notes:

Five bottles: Full App III and IV and Geochem

Weather Conditions:

73-91 deg F sunny

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 7/13/2023 5:11 PM | 00:00 | 6.70 pH | 26.09 °C | 930.24 µS/cm | 0.88 mg/L | 20.20 NTU | -77.5 mV | 22.30 ft | 200.00 ml/min |
| 7/13/2023 5:16 PM | 05:00 | 6.68 pH | 24.72 °C | 960.77 µS/cm | 1.07 mg/L | 19.70 NTU | -81.4 mV | 22.30 ft | 200.00 ml/min |
| 7/13/2023 5:21 PM | 10:00 | 6.67 pH | 24.21 °C | 962.53 µS/cm | 0.13 mg/L | 24.30 NTU | -101.1 mV | 22.30 ft | 200.00 ml/min |
| 7/13/2023 5:26 PM | 15:00 | 6.66 pH | 24.14 °C | 972.51 µS/cm | 0.11 mg/L | 22.50 NTU | -107.9 mV | 22.30 ft | 200.00 ml/min |
| 7/13/2023 5:31 PM | 20:00 | 6.67 pH | 24.49 °C | 1,002.9 µS/cm | 0.10 mg/L | 8.59 NTU | -124.8 mV | 22.30 ft | 200.00 ml/min |
| 7/13/2023 5:36 PM | 25:00 | 6.68 pH | 24.12 °C | 999.67 µS/cm | 0.08 mg/L | 6.25 NTU | -115.1 mV | 22.30 ft | 200.00 ml/min |
| 7/13/2023 5:41 PM | 30:00 | 6.66 pH | 24.79 °C | 1,007.2 µS/cm | 0.09 mg/L | 7.11 NTU | -116.7 mV | 22.30 ft | 200.00 ml/min |
| 7/13/2023 5:46 PM | 35:00 | 6.66 pH | 24.53 °C | 1,007.1 µS/cm | 0.09 mg/L | 4.41 NTU | -124.9 mV | 22.30 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-08 | Grab. |

Low-Flow Test Report:

Test Date / Time: 7/13/2023 11:06:04 AM

Project: GW6581

Operator Name: Alana Neely

| | | |
|---|---|--|
| Location Name: PT-09 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18.5 ft Total Depth: 28.5 ft Initial Depth to Water: 14 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 23.5 ft Estimated Total Volume Pumped: 25.25 L Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.1 ft | Instrument Used: Aqua TROLL 400 Serial Number: 884187 |
|---|---|--|

Test Notes:

Five bottles: Full App III and IV and Geochem

Weather Conditions:

73-91 deg F sunny

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 7/13/2023 11:06 AM | 00:00 | 6.47 pH | 23.91 °C | 730.32 µS/cm | 0.18 mg/L | 3.55 NTU | 32.8 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:07 AM | 01:07 | 6.52 pH | 23.22 °C | 743.74 µS/cm | 0.15 mg/L | - | 11.4 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:12 AM | 06:07 | 6.56 pH | 22.23 °C | 753.03 µS/cm | 0.09 mg/L | 2.51 NTU | 6.0 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:17 AM | 11:07 | 6.57 pH | 22.47 °C | 754.10 µS/cm | 0.06 mg/L | 2.49 NTU | 3.4 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:22 AM | 16:07 | 6.57 pH | 22.10 °C | 764.27 µS/cm | 0.05 mg/L | 4.55 NTU | -9.5 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:27 AM | 21:07 | 6.58 pH | 22.12 °C | 768.51 µS/cm | 0.04 mg/L | 3.98 NTU | -12.2 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:32 AM | 26:08 | 6.42 pH | 22.27 °C | 729.76 µS/cm | 0.04 mg/L | 4.56 NTU | 4.1 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:37 AM | 31:08 | 6.57 pH | 22.45 °C | 763.33 µS/cm | 0.03 mg/L | 10.50 NTU | 3.6 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:42 AM | 36:08 | 6.56 pH | 22.99 °C | 768.69 µS/cm | 0.03 mg/L | 16.20 NTU | -19.3 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:47 AM | 41:08 | 6.45 pH | 23.29 °C | 723.65 µS/cm | 0.03 mg/L | 16.60 NTU | 6.2 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:52 AM | 46:08 | 6.54 pH | 23.37 °C | 768.73 µS/cm | 0.04 mg/L | 16.00 NTU | 14.3 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:57 AM | 51:08 | 6.56 pH | 23.35 °C | 767.51 µS/cm | 0.03 mg/L | 18.00 NTU | 12.2 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 12:02 PM | 56:08 | 6.56 pH | 23.59 °C | 770.87 µS/cm | 0.02 mg/L | 16.30 NTU | 3.5 mV | 14.10 ft | 250.00 ml/min |

| | | | | | | | | | |
|-----------------------|----------|---------|----------|--------------|-----------|-----------|---------|----------|---------------|
| 7/13/2023 12:07 PM | 01:01:08 | 6.56 pH | 23.26 °C | 771.12 µS/cm | 0.02 mg/L | 20.10 NTU | 5.6 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 12:12 PM | 01:06:08 | 6.56 pH | 23.45 °C | 773.37 µS/cm | 0.02 mg/L | 16.70 NTU | 7.1 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 12:17 PM | 01:11:08 | 6.56 pH | 23.36 °C | 775.77 µS/cm | 0.02 mg/L | 13.30 NTU | 9.8 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 12:22 PM | 01:16:08 | 6.57 pH | 24.10 °C | 773.97 µS/cm | 0.02 mg/L | 11.81 NTU | 14.8 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 12:26 PM | 01:20:29 | 6.57 pH | 23.62 °C | 771.90 µS/cm | 0.02 mg/L | 10.18 NTU | 15.0 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 12:31 PM | 01:25:29 | 6.57 pH | 23.66 °C | 776.24 µS/cm | 0.02 mg/L | 9.43 NTU | 18.2 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 12:36 PM | 01:30:29 | 6.57 pH | 24.30 °C | 779.12 µS/cm | 0.02 mg/L | 7.91 NTU | 16.2 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 12:41 PM | 01:35:29 | 6.57 pH | 24.48 °C | 779.77 µS/cm | 0.02 mg/L | 4.95 NTU | 18.4 mV | 14.10 ft | 250.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-09 | Grab. |

Low-Flow Test Report:

Test Date / Time: 7/13/2023 1:16:15 PM

Project: GW6581

Operator Name: Alana Neely

| | | |
|---|--|--|
| Location Name: PT-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18 ft Total Depth: 28 ft Initial Depth to Water: 14 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 23 ft Estimated Total Volume Pumped: 12 L Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.3 ft | Instrument Used: Aqua TROLL 400 Serial Number: 884187 |
|---|--|--|

Test Notes:

Five bottles: Full App III and IV and Geochem

Weather Conditions:

73-91 deg F; sunny

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 10 | +/- 10 | +/- 0.3 | |
| 7/13/2023 1:16 PM | 00:00 | 7.05 pH | 24.25 °C | 808.38 µS/cm | 0.31 mg/L | 11.60 NTU | -135.4 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 1:21 PM | 04:45 | 7.04 pH | 22.90 °C | 832.12 µS/cm | 0.49 mg/L | 20.60 NTU | -134.8 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 1:25 PM | 09:02 | 7.05 pH | 22.36 °C | 827.40 µS/cm | 0.12 mg/L | 18.10 NTU | -142.1 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 1:30 PM | 14:02 | 7.04 pH | 21.87 °C | 835.53 µS/cm | 0.10 mg/L | 13.20 NTU | -136.6 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 1:35 PM | 19:02 | 7.03 pH | 22.00 °C | 831.33 µS/cm | 0.08 mg/L | 12.47 NTU | -182.4 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 1:40 PM | 24:02 | 7.03 pH | 22.23 °C | 834.62 µS/cm | 0.06 mg/L | 10.64 NTU | -179.2 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 1:45 PM | 29:02 | 7.02 pH | 21.83 °C | 837.40 µS/cm | 0.05 mg/L | 9.54 NTU | -126.6 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 1:50 PM | 34:02 | 7.02 pH | 22.13 °C | 840.48 µS/cm | 0.05 mg/L | 8.72 NTU | -173.7 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 1:55 PM | 39:02 | 7.02 pH | 21.98 °C | 834.18 µS/cm | 0.04 mg/L | 7.59 NTU | -122.1 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 2:00 PM | 44:02 | 7.01 pH | 21.89 °C | 840.03 µS/cm | 0.04 mg/L | 6.56 NTU | -118.7 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 2:05 PM | 49:02 | 7.01 pH | 22.10 °C | 840.92 µS/cm | 0.03 mg/L | 5.64 NTU | -163.8 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 2:10 PM | 54:02 | 7.01 pH | 21.95 °C | 842.15 µS/cm | 0.03 mg/L | 4.94 NTU | -161.5 mV | 14.30 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-10 | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/9/2023 5:24:44 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|---|--|--|
| Location Name: PT-07 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 38.6 ft Total Depth: 47.94 ft Initial Depth to Water: 25.05 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 43.8 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.05 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|---|--|--|

Test Notes:

Five bottles: Baseline Sampling and Major Ions

Weather Conditions:

Cloudy, 80 Degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/9/2023 5:24 PM | 00:00 | 6.69 pH | 22.70 °C | 979.72 µS/cm | 0.65 mg/L | 6.30 NTU | -88.9 mV | 25.10 ft | 200.00 ml/min |
| 8/9/2023 5:29 PM | 05:00 | 6.73 pH | 21.85 °C | 986.58 µS/cm | 0.43 mg/L | 4.87 NTU | -89.0 mV | 25.10 ft | 200.00 ml/min |
| 8/9/2023 5:34 PM | 10:00 | 6.76 pH | 21.55 °C | 992.34 µS/cm | 0.48 mg/L | 4.83 NTU | -89.8 mV | 25.10 ft | 200.00 ml/min |
| 8/9/2023 5:39 PM | 15:00 | 6.78 pH | 21.44 °C | 993.38 µS/cm | 0.33 mg/L | 5.08 NTU | -107.7 mV | 25.10 ft | 200.00 ml/min |
| 8/9/2023 5:44 PM | 20:00 | 6.79 pH | 21.42 °C | 1,008.3 µS/cm | 0.41 mg/L | 1.91 NTU | -90.6 mV | 25.10 ft | 200.00 ml/min |
| 8/9/2023 5:49 PM | 25:00 | 6.80 pH | 21.36 °C | 1,010.3 µS/cm | 0.30 mg/L | 0.80 NTU | -90.8 mV | 25.10 ft | 200.00 ml/min |
| 8/9/2023 5:54 PM | 30:00 | 6.82 pH | 21.19 °C | 1,012.4 µS/cm | 0.40 mg/L | 0.18 NTU | -90.9 mV | 25.10 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-07 | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/9/2023 10:03:54 AM

Project: GP-Plant Hammond

Operator Name: Elisabeth McDonnell

| | | |
|---|---|--|
| Location Name: PT-08 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 28.8 ft Total Depth: 42.0 ft Initial Depth to Water: 23.6 ft | Pump Type: Bladder pump Tubing Type: Peri Pump Intake From TOC: 37.3 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.04 m | Instrument Used: Aqua TROLL 400 Serial Number: 989630 |
|---|---|--|

Test Notes:

Five bottles: Baseline Sampling and Major Ions

Weather Conditions:

Cloudy, 80 Degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/9/2023 10:03 AM | 00:00 | 6.80 pH | 20.72 °C | 943.04 µS/cm | 2.15 mg/L | 15.50 NTU | -57.8 mV | 23.64 ft | 160.00 ml/min |
| 8/9/2023 10:08 AM | 05:00 | 6.81 pH | 20.71 °C | 915.43 µS/cm | 1.51 mg/L | 10.90 NTU | -60.5 mV | 23.63 ft | 160.00 ml/min |
| 8/9/2023 10:13 AM | 10:00 | 6.81 pH | 20.73 °C | 905.45 µS/cm | 1.62 mg/L | 7.91 NTU | -61.7 mV | 23.65 ft | 160.00 ml/min |
| 8/9/2023 10:18 AM | 15:00 | 6.82 pH | 20.59 °C | 908.95 µS/cm | 2.77 mg/L | 4.08 NTU | -82.5 mV | 23.64 ft | 160.00 ml/min |
| 8/9/2023 10:23 AM | 20:00 | 6.82 pH | 20.63 °C | 911.77 µS/cm | 1.38 mg/L | 4.45 NTU | -84.8 mV | 23.64 ft | 160.00 ml/min |
| 8/9/2023 10:28 AM | 25:00 | 6.82 pH | 20.57 °C | 907.31 µS/cm | 1.20 mg/L | 4.04 NTU | -64.7 mV | 23.63 ft | 160.00 ml/min |
| 8/9/2023 10:33 AM | 30:00 | 6.83 pH | 20.52 °C | 905.19 µS/cm | 0.97 mg/L | 2.96 NTU | -85.5 mV | 23.63 ft | 160.00 ml/min |
| 8/9/2023 10:38 AM | 35:00 | 6.83 pH | 20.58 °C | 911.05 µS/cm | 0.84 mg/L | 3.40 NTU | -64.5 mV | 23.63 ft | 160.00 ml/min |
| 8/9/2023 10:43 AM | 40:00 | 6.82 pH | 20.60 °C | 909.15 µS/cm | 0.94 mg/L | 3.98 NTU | -84.4 mV | 23.64 ft | 160.00 ml/min |

Samples

| Sample ID: | Description: |
|---------------|--------------|
| HAM-PT-08 | Grab. |
| HAM-AP1-FD-06 | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/9/2023 1:27:10 PM

Project: GP-Plant Hammond

Operator Name: Elisabeth McDonnell

| | | |
|---|--|--|
| Location Name: PT-09 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 28.8 ft Total Depth: 30.75 ft Initial Depth to Water: 14.99 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 26 ft Estimated Total Volume Pumped: 1.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 m | Instrument Used: Aqua TROLL 400 Serial Number: 989630 |
|---|--|--|

Test Notes:

Five bottles: Baseline Sampling and Major Ions

Weather Conditions:

Cloudy, 80 Degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/9/2023 1:27 PM | 00:00 | 6.76 pH | 21.93 °C | 745.27 µS/cm | 4.47 mg/L | 2.02 NTU | 56.2 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 1:32 PM | 05:00 | 6.81 pH | 21.68 °C | 771.52 µS/cm | 3.35 mg/L | 1.11 NTU | 52.3 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 1:37 PM | 10:00 | 6.85 pH | 21.44 °C | 786.50 µS/cm | 2.58 mg/L | 1.46 NTU | 28.7 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 1:42 PM | 15:00 | 6.86 pH | 21.30 °C | 797.33 µS/cm | 6.17 mg/L | 2.12 NTU | 16.0 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 1:47 PM | 20:00 | 6.87 pH | 21.28 °C | 797.79 µS/cm | 2.58 mg/L | 2.86 NTU | 19.9 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 1:52 PM | 25:00 | 6.88 pH | 21.32 °C | 806.94 µS/cm | 3.88 mg/L | 3.70 NTU | 15.9 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 1:57 PM | 30:00 | 6.88 pH | 21.25 °C | 797.98 µS/cm | 0.84 mg/L | 3.86 NTU | 11.7 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 2:02 PM | 35:00 | 6.88 pH | 21.20 °C | 794.19 µS/cm | 0.80 mg/L | 3.31 NTU | 10.9 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 2:07 PM | 40:00 | 6.88 pH | 21.03 °C | 791.25 µS/cm | 1.44 mg/L | 2.06 NTU | 10.4 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 2:12 PM | 45:00 | 6.89 pH | 20.96 °C | 770.10 µS/cm | 0.72 mg/L | 1.72 NTU | 9.1 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 2:17 PM | 50:00 | 6.88 pH | 20.97 °C | 792.63 µS/cm | 0.55 mg/L | 0.98 NTU | 9.9 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 2:22 PM | 55:00 | 6.89 pH | 21.06 °C | 791.96 µS/cm | 1.03 mg/L | 1.51 NTU | 1.0 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 2:27 PM | 01:00:00 | 6.89 pH | 21.29 °C | 791.26 µS/cm | 0.63 mg/L | 0.62 NTU | 12.2 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 2:32 PM | 01:05:00 | 6.89 pH | 21.71 °C | 825.29 µS/cm | 0.44 mg/L | 0.44 NTU | 14.1 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 2:37 PM | 01:10:00 | 6.89 pH | 21.59 °C | 826.86 µS/cm | 0.58 mg/L | 0.56 NTU | 14.4 mV | 14.99 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-09 | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/9/2023 12:22:52 PM

Project: GP-Plant Hammond

Operator Name: Elisabeth McDonnell

| | | |
|---|---|--|
| Location Name: PT-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 20 ft Total Depth: 31.75 ft Initial Depth to Water: 15.05 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 25 ft Estimated Total Volume Pumped: 5.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.13 m | Instrument Used: Aqua TROLL 400 Serial Number: 989630 |
|---|---|--|

Test Notes:

Five bottles: Baseline Sampling and Major Ions

Weather Conditions:

Cloudy, 80 Degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/9/2023 12:22 PM | 00:00 | 7.14 pH | 22.18 °C | 811.17 µS/cm | 1.15 mg/L | 24.10 NTU | -75.4 mV | 15.18 ft | 160.00 ml/min |
| 8/9/2023 12:27 PM | 05:00 | 7.15 pH | 22.04 °C | 798.04 µS/cm | 0.38 mg/L | 16.60 NTU | -75.5 mV | 15.18 ft | 160.00 ml/min |
| 8/9/2023 12:32 PM | 10:00 | 7.16 pH | 21.96 °C | 800.28 µS/cm | 0.37 mg/L | 11.80 NTU | -99.1 mV | 15.18 ft | 160.00 ml/min |
| 8/9/2023 12:37 PM | 15:00 | 7.16 pH | 22.00 °C | 793.73 µS/cm | 0.33 mg/L | 4.09 NTU | -78.0 mV | 15.18 ft | 160.00 ml/min |
| 8/9/2023 12:42 PM | 20:00 | 7.17 pH | 21.46 °C | 790.02 µS/cm | 0.24 mg/L | 4.11 NTU | -101.9 mV | 15.18 ft | 160.00 ml/min |
| 8/9/2023 12:47 PM | 25:00 | 7.18 pH | 21.86 °C | 782.36 µS/cm | 0.16 mg/L | 2.36 NTU | -81.4 mV | 15.18 ft | 160.00 ml/min |
| 8/9/2023 12:52 PM | 30:00 | 7.18 pH | 21.79 °C | 770.46 µS/cm | 0.12 mg/L | 4.55 NTU | -80.9 mV | 15.18 ft | 160.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-10 | Grab. |

Calibration Forms

EQUIPMENT CALIBRATION LOG

Field Technician: Alana Neely

Date: 2/13/23

Time (start): 0850

Time (finish): 0910

SmartTroll SN: 884187

Turbidity Meter Type: LaMotte 2020we

SN: 7009-1416

Weather Conditions: 73-91, sunny

Facility and Unit: Piant+Hammond

Project No.: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|--------------------|---|------------|
| Specific Conductance (µS/cm) | 22250153 11/23 | 25.72 | 4490 | 4122.4 | 4487.6 | +/- 5 % | <input checked="" type="radio"/> Yes No | |
| pH (4) | | | 4.00 | 4.02 | 4.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (4) check | - | - | 4.00 | - | - | +/- 0.1 SU | Yes No | |
| pH (7) | 2216893 11/23 | 25.7 | 7.00 | 7.35 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (7) check | | | - | - | 7.00 | - | - | +/- 0.1 SU |
| pH (10) | 21320202 12/23 | 25.5 | 10.00 | 10.3 | 10.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (10) check | | | - | - | 10.00 | - | - | +/- 0.1 SU |
| ORP (mV) | 21390144 11/23 | 24.72 | 228 | 215.4 | 227.7 | +/- 20mV | <input checked="" type="radio"/> Yes No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 101.11% | 100.00% | +/- 6 % saturation | <input checked="" type="radio"/> Yes No | |
| Turbidity 0 NTU | | | 0 | 0.20 | 0.00 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 1 NTU | | | 1.00 | 0.71 | 0.81 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 10 NTU | | | 10.00 | 11.30 | 9.99 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |

EQUIPMENT CALIBRATION LOG

Field Technician: Elisabeth McDonnell

Date: 8/9/23

Time (start): 830

Time (finish): 850

smarTroll SN: 989630

Turbidity Meter Type: La Motte 2020t

SN: 4109-2623

Weather Conditions: 70, cloudy

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|--------------------|---|----------|
| Specific Conductance (µS/cm) | 22250153 11/23 | 23.18 | | | | +/- 5 % | Yes No | |
| pH (4) | | | 4.00 | 3.99 | 4.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (4) check | ↓ | | | | | +/- 0.1 SU | Yes No | |
| pH (7) | 2216893 11/23 | 23.48 | 7.0 | 6.85 | 7.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (7) check | | | ↓ | | | | +/- 0.1 SU | Yes No |
| pH (10) | 21320202 12/23 | 23.70 | 10.0 | 10.0 | 10.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (10) check | | | ↓ | | | | +/- 0.1 SU | Yes No |
| ORP (mV) | 21390149 11/23 | 23.85 | 228 | 230.90 | 228 | +/- 20mV | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100% | 102.36% | 100% | +/- 6 % saturation | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 0 NTU | | | 0.0 | 0.0 | 0.0 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 1 NTU | | | 1.0 | 1.0 | 1.0 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 10 NTU | | | 10.0 | 11.1 | 10.4 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |

EQUIPMENT CALIBRATION LOG

Field Technician: Thomas Kesler

Date: 8/14/23

Time (start): 0800

Time (finish): 0825

smarTroll SN: 850729

Turbidity Meter Type: LeMotte 2020me

SN: 1475-21011

Weather Conditions: Partly 75°

Facility and Unit: Plant Hammond

Project No: GLCS81

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-----------------------|---|----------|
| Specific Conductance (µS/cm) | 2275053 11/23 | 21.91 | 4490 | 4562 | 4490 | +/- 5 % | <input checked="" type="radio"/> Yes No | |
| pH (4) | 11/23 | | 4 | 4.04 | 4.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (4) check | ↓ | 29 | 4 | 4.03 | — | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| pH (7) | 2216893 11/23 | 22.77 | 7.00 7.00 | 7.05 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (7) check | ↓ | 29 | 7 | 6.98 | — | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| pH (10) | 21380202 11/23 | 22.62 | 10.00 | 10.01 | 10.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (10) check | ↓ | 29 | 10 | 9.91 | — | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| ORP (mV) | 22760025 8/23 | | 228 | 227.7 | 228 | +/- 20mV | <input checked="" type="radio"/> Yes No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 99.08 | 100 | +/- 6 % saturation | <input checked="" type="radio"/> Yes No | |
| Turbidity 0 NTU | | | 0 | .53 | 0 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 1 NTU | | | 1 | .56 | .93 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 10 NTU | | | 10 | 10.35 | 10.1 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |

APPENDIX C

Injection Field Forms

Injection Point Nomenclature Legend

| | |
|------------|---|
| IP-## | Injection point (IP) (<i>as shown on Figure 2</i>) |
| IP-## (#) | Offset IP with the distance (in ft) offset from the original IP indicated within parentheses. |
| IP-##A | Magnesium oxide (MgO) IP |
| IP-##A (#) | Offset MgO IP with the indicated offset distance from the original IP indicated with parentheses. |

Injection Log

Project Name: Plant Hammond AP-Corrective Measure **Date:** 09/25/2023 **Page** 1 **of**
Project Number: 6N651G1 **Weather:** Sunny
Field Personnel: M. Sadhasivan **Activity:** DPT Injection

Location: H61 WC-8 Area **Start: Date** 09/25/2023 **Time** 1415 **Finish: Date**
Time

| Well ID | Start Time (hr:mm) | Stop Time (hr:mm) | Volume Injected (gal) | Injection Pressure (psi) | Flowrate (GPM) | Notes |
|-----------------|--------------------|-------------------|-----------------------|--------------------------|----------------|-------------------------------|
| IP-05 17-19ft | 1415 | 1425 | 0 | 25psi | 0.2 | couldn't inject water |
| 19-21ft | 1450 | | | 0 | ~3/1.2gpm | |
| 19-21ft | 1500 | 1545 | ~240 | 1.6 | 4.8 | Batch over Potable water |
| 19-21ft | 1610 | | | 0.9 | 4.3 | |
| 19-21ft | 1620 | 1706 | ~492 | 1.0 | 4.4 | Batch over + |
| 09/26/2023 | | | | | | |
| 19-21ft | | | | | | |
| 21-23ft | 0929 | 1003 | ~108 | -1.9 | 3.4 | Potable water |
| 21-23ft | 1003 | 1156 | total ~500 | 1.5 | 4.3 | |
| 23-25ft | 1206 | 1255 | ~250 | 3.2 | 5.2 | |
| 25-27ft | 1303 | 1352 | ~250 | 0.6 | 5.3 | |
| 25-27 | 1400 | 1458 | ~250 | 1.2 | 5.5 | |
| 23-25 | 1500 | 1550 | ~250 | 2.9 | 5.9 | |
| 09/27/2023 | | | | | | |
| IP-08 19-21ft | 1058 | 1130 | ~250 | 2.8 | 5.7 | FeSO4 at 0.11 lbs per 100 gal |
| 19-21ft | 1130 | 1315 | ~250 | 4.0 | 5.9 | |
| 21-23ft | 1315 | 1549 | ~850 | 4.0 | 5.5 | |
| 23-25ft | 1540 | 1715 | ~500 | 3.9 | 6.4 | |
| 23-25ms | 09178 | 2023 | | 3.5ms | 5.2ms | |
| 23-25 | 0844 | 0950 | 350 | 2.5 | 5.8 | |
| 25-27 | 0950 | 1220 | 850 | 3.0 | 6.2 | |
| IP-05 (2) 19-21 | 1300 | 1310 | 50 | 3.9 | 5.2 | stops injection due to |
| 19-21 | 1341 | 1430 | 250 | 3.9 | 5.4 | lose on threaded form |
| 19-21 | 1430 | 1615 | 550 | 4.0 | 5.2 | end cap |
| 21-23 | 1615 | 1650 | 200 | 4.0 | 6.0 | |

Injection Log

| | | | | | |
|------------------|--|-----------|---------------|------|------|
| Project Name: | Plant Hammond AP 1 Corrosion ^{Measurements} | Date: | 09/29/2023 | Page | 2 of |
| Project Number: | C9W 65816 | Weather: | Sunny | | |
| Field Personnel: | M. Sadhanvan | Activity: | DPT Injection | | |

| | | | | | |
|-----------|------------|-------------|------|--------------|------|
| Location: | HGW-8 area | Start: Date | Time | Finish: Date | Time |
|-----------|------------|-------------|------|--------------|------|

09/29/2023
IP-05 (2)

| Well ID | Start Time (hr:mm) | Stop Time (hr:mm) | Volume Injected (gal) | Injection Pressure (psi) | Flowrate (GPM) | Notes |
|------------|--------------------|-------------------|-----------------------|--------------------------|----------------|-------|
| 21-23 | 0828 | 0913 | 250 | 3.6 | 5.6 | |
| 21-23 | 0913 | 0958 | 250 | 4 | 5.6 | |
| 21-23 | 0958 | 1025 | 150 | 4 | 5.6 | |
| 23-25 | 1025 | 1058 | 100 | 4 | 3 | |
| 23-25 | 1058 | 1419 | 750 | 4 | 4.2 | |
| 25-27 | 1419 | 1459 | 250 | 4 | 6.2 | |
| 25-27 | 1459 | 1541 | 250 | 4 | 6 | |
| 25-27 | 1541 | 1627 | 250 | 4 | 5.5 | |
| 25-27 | 1627 | 1645 | 100 | 4 | 5.6 | |
| 09/30/2023 | | | | | | |
| 19-21 | 0853 | 0957 | 250 | 4 | 3.9 | |
| 19-21 | 0957 | 1116 | 250 | 4 | 3.2 | |
| 19-21 | 1116 | 1239 | 250 | 4 | 3 | |
| 19-21 | 1239 | 1312 | 100 | 4 | 3 | |
| 21-23 | 1312 | 1334 | 150 | 4 | 6.8 | |
| 21-23 | 1334 | 1412 | 250 | 4 | 6.6 | |
| 21-23 | 1412 | 1450 | 250 | 4 | 6.6 | |
| 21-23 | 1450 | 1521 | 200 | 4 | 6.5 | |
| 23-25 | 1521 | 1533 | 50 | 4 | 4.1 | |
| 23-25 | 1533 | 1637 | 250 | 4 | 3.9 | |
| 10/01/2023 | | | | | | |
| 23-25 | 0745 | 0834 | 250 | 4 | 5.1 | |
| 23-25 | 0834 | 0919 | 250 | 4 | 5.6 | |
| 23-25 | 0919 | 0928 | 50 | 4 | 5.6 | |
| 25-27 | 0928 | 1002 | 200 | 4 | 5.9 | |

IP-07

IP-07

Injection Log

Project Name: Plant Hammond AP-1 corrective measure **Date:** 10/18/2023 Page 3 of
Project Number: GW65816 **Weather:** Sunny
Field Personnel: M. Sodhasivam **Activity:** DPT injection

Location: HGWC-8 area **Start: Date** **Time** **Finish: Date**
Time

| Well ID | Start Time (hr:mm) | Stop Time (hr:mm) | Volume Injected (gal) | Injection Pressure (psi) | Flowrate (GPM) | Notes |
|-------------|--------------------|-------------------|-----------------------|--------------------------|----------------|-------|
| 10/01/2023 | | | | | | |
| IP-07 25-27 | 1002 | 1046 | 250 | 4 | 5.7 | |
| 25-27 | 1046 | 1132 | 250 | 4 | 5.5 | |
| 25-27 | 1132 | 1158 | 150 | 4 | 5.8 | |
| IP-06 19-21 | 1238 | 1257 | 100 | 4 | 5.3 | |
| 19-21 | 1257 | 1406 | 250 | 4 | 3.6 | |
| 19-21 | 1406 | 1526 | 250 | 4 | 3.1 | |
| 19-21 | 1526 | 1650 | 250 | 4 | 2.9 | |
| 10/02/2023 | | | | | | |
| IP-06 21-23 | 0750 | 0839 | 250 | 4 | 5.1 | |
| 21-23 | 0839 | 0925 | 250 | 4 | 5.5 | |
| 21-23 | 0925 | 1009 | 250 | 4 | 5.7 | |
| 21-23 | 1009 | 1028 | 100 | 4 | 5.3 | |
| 23-25 | 1028 | 1116 | 150 | 4 | 3.1 | |
| 23-25 | 1116 | 1210 | 250 | 4 | 4.6 | |
| 23-25 | 1210 | 1305 | 250 | 4 | 4.5 | |
| 23-25 | 1305 | 1350 | 200 | 4 | 4.5 | |
| 25-27 | 1350 | 1407 | 50 | 4 | 2.9 | |
| 25-27 | 1407 | 1520 | 250 | 4 | 3.4 | |
| 25-27 | 1520 | 1630 | 250 | 4 | 3.6 | |
| 25-27 | 1630 | 1645 | 50 | 4 | 3.3 | |
| 10/03/2023 | | | | | | |
| IP-06 25-27 | 0823 | 0925 | 250 | 4 | 3.2 | |
| | | | | | | |
| | | | | | | |

Injection Log

Project Name: Plant Hammond AP-1 corrective maintenance **Date:** 10/04/2023 **Page** 1 **of**
Project Number: G.W. 5819 **Weather:** Sunny
Field Personnel: M. Sadhasivan **Activity:** DIT injection

Location: HGSWC-13 area **Start: Date** 10/04/23 **Time** **Finish: Date** **Time**

| Well ID | Start Time (hr:mm) | Stop Time (hr:mm) | Volume Injected (gal) | Injection Pressure (psi) | Flowrate (GPM) | Notes |
|-----------------|--------------------|-------------------|-----------------------|--------------------------|----------------|-------|
| IP-01(2) | | | | | | |
| 10/04/2023 | | | | | | |
| 35-37 ft | 11:15 | 1400 | 238 | 11 | 1.4 | |
| 10/09/2023 | | | | | | |
| IP-01(3) 37-39 | 1339 | 1415 | 175 | 11 | 3.9 | |
| 39-41 | 1419 | 1453 | 175 | 10 | 4.5 | |
| 41-43 | 1520 | 1601 | 175 | 11 | 4.5 | |
| 43-45 | 1605 | 1633 | 55 | 11 | 1.5 | |
| 10/10/2023 | | | | | | |
| IP-04(2) 35-37 | 0911 | 0949 | 175 | 11 | 5.0 | |
| 37-39 | 0953 | 1028 | 175 | 11 | 5.0 | |
| 39-41 | 1033 | 1118 | 175 | 11 | 3.9 | |
| 41-43 | 1124 | 1515 | 175 | 11 | 0.8 | |
| 45-47 | 1526 | 1735 | 350 | 11 | 4.4 | |
| 10/11/2023 | | | | | | |
| IP-04(2) 47-49 | 0750 | 0914 | 350 | 11 | 5.0 | |
| IP-03 33-35 | 1049 | 1143 | 175 | 11 | 3.4 | |
| IP-03 33-35 | 1147 | 1310 | 175 | 11 | 3.1 | |
| IP-03 35-37 | 1315 | 1424 | 350 | 7.0 | 5.0 | |
| IP-03 36.5-38.5 | 1442 | 1520 | 175 | 1.5 | 5.0 | |
| IP-03 36.5-38.5 | 1520 | 1606 | 175 | 1.1 | 5.0 | |
| IP-03(2) 41-43 | 1720 | 1754 | 175 | 1.2 | 5.0 | |
| 10/12/2023 | | | | | | |
| IP-03(2) 41-43 | 0800 | 0838 | 175 | 1.0 | 4.9 | |
| IP-03(2) 43-45 | 0845 | 0956 | 350 | 3.5 | 5.0 | |

Injection Log

| | | |
|--|--------------------------------|------------------------------|
| Project Name: <u>Plant Hammond AP-1 Corrective Measure</u> | Date: <u>10/12/2023</u> | Page <u>2</u> of <u> </u> |
| Project Number: <u>GW6581G</u> | Weather: <u>Cloudy</u> | |
| Field Personnel: <u>M. Sadhasivan</u> | Activity: <u>DPT Injection</u> | |

| | | |
|-------------------------------|--|--|
| Location: <u>HGWC-13 area</u> | Start: Date <u>10/12/23</u> Time <u> </u> | Finish: Date <u> </u> Time <u> </u> |
|-------------------------------|--|--|

| | Well ID | Start Time (hr:mm) | Stop Time (hr:mm) | Volume Injected (gal) | Injection Pressure (psi) | Flowrate (GPM) | Notes |
|----------|--------------------------------|--------------------|-------------------|-----------------------|--------------------------|----------------|-------------|
| IP-032) | 45-47 | 1003 | 1113 | 350 | 3.0 | 5.0 | |
| IP-0312) | 47-49 | 1120 | 1232 | 350 | 2.2 | 5.0 | |
| IP-02 | 35-37 | 1317 | 1439 | 350 | 11 | 5.0 | |
| IP-02 | 37-39 | 1445 | 1602 | 350 | 11 | 5.0 | |
| IP-02 | 39-41 | 1613 | 1733 | 50 | 11 | 0.6 | |
| | 10/13/2023 | | | | | | |
| IP-02 | 41-43 | 0855 | 0955 | 350 | 11 | 3.5 | |
| IP-02 | 43-45 | 1045 | 1207 | 175 | 11 | 2.2 | |
| IP-02 | 43-45 | 1207 | 1250 | 175 | 11 | 3.6 | |
| IP-02 | 45-47 | 1302 | 1415 | 350 | 3.8 | 4.6 | |
| IP-02 | 47-49 _{ms} | 1420 | 1537 | 350 | 4 | 4.7 | |
| | 465-485 | | | | | | |
| IP-01(4) | 33-35 | 1630 | 1726 | 175 | 11 | 3.0 | |
| | 10/14/2023 | | | | | | |
| IP-01(4) | 33-35 | 0847 | 0931 | 175 | 11 | 4.0 | |
| IP-01(4) | 35-37 | 0942 | 1107 | 350 | 11 | 4.2 | |
| IP-01(4) | 37-39 | 1114 | 1248 | 350 | 11 | 4.2 | |
| IP-01(4) | 39-41 | 1254 | 1415 | 350 | 11 | 5.0 | |
| IP-01(4) | 41-43 | 1420 | 1547 | 50 | 11 | 0.6 | |
| IP-01(4) | 47-49 | 1604 | 1720 | 350 | 10 | 5.0 | |
| | 10/15/2023 | | | | | | |
| IP-08A | 19-21 | 1148 | 1351 | 310 | 4.0 | 2.6 | Daylighting |
| IP-08A | 19-21 | 1457 | 1657 | 425 | 4.0 | 3.5 | |

Injectate Batch Preparation Log

Project Name: Plant Hammond AP-1 injections Page 1 of 1
 Project Number: 6465816 Field Personnel: M. Sadhasivam
 Date: 09/25/2023 Weather: Sunny

| Batch # | Tank Fill | | | FeSO4 | | Geochemical Parameters | | | | | | Comments | |
|----------|--------------------|------------------|------------------|--------------|-------------|------------------------|-----------|---------|-------------------|-----------|----------|----------|----------------------------------|
| | Start Time (hr:mm) | End Time (hr:mm) | Volume (gallons) | Time (hr:mm) | Amount (lb) | Time (hr:mm) | Temp (°C) | pH (SU) | Sp. Cond (µS/cm³) | DO (mg/L) | ORP (mV) | | |
| 09/25/23 | Potable water | 1100 | 1105 | 250 | - | - | 13:05 | 23.93 | 7.34 | 0.20 | 8.41 | 379.2 | |
| 09/25/23 | Potable water | 1550 | 1553 | 250 | - | - | 1555 | 25.01 | 7.66 | 0.19 | 7.86 | 562.0 | |
| 09/26/23 | Potable water | 0800 | 0820 | 500 | - | - | 0905 | 17.45 | 7.35 | 0.21 | 9.35 | 548.1 | Batch 3 & 4 |
| 09/26/23 | Potable water | 1100 | 1115 | 500 | - | - | 1149 | 19.09 | 7.64 | 0.21 | 9.11 | 533.5 | Batch 5 & 6 |
| 09/26/23 | Potable water | 1315 | 1330 | 500 | - | - | 1400 | 25.14 | 7.86 | 0.19 | 7.91 | 406.2 | Batch 7 & 8 |
| 09/27/23 | 9 | 0945 | 0955 | 250 | 1015 | 0.0275 | 1020 | 19.94 | 8.61 | 0.65 | 8.61 | 122.5 | IP-08 Batch 1 19-21 |
| 09/27/23 | 10 | 1115 | 1125 | 250 | 1125 | 0.0275 | 1130 | 20.51 | 8.52 | 0.83 | 8.52 | 81.2 | IP-08 Batch 2 19-21 |
| 09/27/23 | 11 | 1150 | 1200 | 250 | 1200 | 0.0275 | 1208 | 20.02 | 8.25 | 0.66 | 8.71 | 545.7 | IP-08 Batch 3 19-21 |
| 09/27/23 | 12 | 1245 | 1255 | 250 | 1256 | 0.0275 | 1258 | 19.82 | 8.27 | 0.48 | 8.75 | 621.4 | IP-08 Batch 4 19-21 |
| 09/27/23 | 13 | 1340 | 1350 | 250 | 1350 | 0.0275 | 1351 | 19.80 | 8.24 | 0.44 | 8.92 | 543.6 | IP-08 Batch 5 20-21 |
| 09/27/23 | 14 | 1430 | 1440 | 250 | 1440 | 0.0275 | 1450 | 19.54 | 8.26 | 0.40 | 8.79 | 513.2 | IP-08 Batch 6 20-21 |
| 09/27/23 | 15 | 1540 | 1545 | 250 | 1545 | 0.0275 | 1551 | 18.96 | 8.31 | 0.42 | 8.94 | 200.4 | IP-08 Batch 7 20-21 |
| 09/27/23 | 16 | 1625 | 1630 | 250 | 1630 | 0.0275 | 1632 | 18.84 | 8.14 | 0.31 | 8.96 | 179.3 | IP-08 Batch 8 20-23 → add 200 |
| 09/28/23 | 17 | 0820 | 0830 | 250 | 0830 | 0.0275 | 0841 | 17.88 | 7.42 | 0.22 | 9.02 | 146.3 | IP-08 Batch 9 (23-25) |
| 09/28/23 | 18 | 0925 | 0930 | 250 | 0930 | 0.0275 | 0935 | 18.11 | 7.55 | 0.22 | 8.98 | 79.9 | IP-08 Batch 10 |
| 09/28/23 | 19 | 1000 | 1005 | 250 | 1005 | 0.0275 | 1011 | 18.58 | 7.63 | 0.22 | 8.94 | 72.5 | IP-08 Batch 11 |
| 09/28/23 | 20 | 1045 | 1050 | 250 | 1050 | 0.0275 | 1054 | 18.59 | 7.66 | 0.22 | 9.20 | 122.6 | IP-08 Batch 12 |
| 09/28/23 | 21 | 1135 | 1140 | 250 | 1140 | 0.0275 | 1146 | 19.13 | 7.71 | 0.22 | 9.17 | 136.9 | IP-08 Batch 13 |
| 09/28/23 | 22 | 1420 | 1425 | 250 | 1425 | 0.0275 | 1430 | 20.73 | 7.93 | 0.21 | 8.34 | 108.9 | IP-05(2) Batch 2 ← |
| 09/28/23 | 24 | 1300 | 1305 | 250 | 1305 | 0.0275 | 1320 | 19.85 | 7.88 | 0.22 | 8.81 | 87.1 | IP-05(2) Batch 1 ← |
| 09/28/23 | 24 | 1500 | 1505 | 250 | 1505 | 0.0275 | 1520 | 21.06 | 7.93 | 0.21 | 8.56 | 125.0 | IP-05(2) Batch 3 |
| 09/28/23 | 25 | 1550 | 1555 | 250 | 1601 | 0.0275 | 1621 | 23.67 | 7.85 | 0.21 | 7.87 | 123.9 | IP-05(2) Batch 4 |
| 09/29/23 | 26 | 0815 | 0820 | 250 | 0820 | 0.0275 | 0827 | 17.84 | 7.19 | 0.22 | 8.93 | 123.7 | IP-05(2) Batch 5 |

Injectate Batch Preparation Log

Project Name: Plant Hammond AP-1 injections Page 2 of
 Project Number: GWN 658167 Field Personnel: M. Sadhasivan
 Date: 09/29/2023 Weather: Sunny

| Date | Batch # | Tank Fill | | | FeSO4 | | Geochemical Parameters | | | | | Comments | |
|----------|---------|--------------------|------------------|------------------|--------------|-------------|------------------------|-----------|---------|-------------------|-----------|----------|----------|
| | | Start Time (hr:mm) | End Time (hr:mm) | Volume (gallons) | Time (hr:mm) | Amount (lb) | Time (hr:mm) | Temp (°C) | pH (SU) | Sp. Cond (µs/cm³) | DO (mg/L) | | ORP (mV) |
| 09/29/23 | 27 | 0900 | 0905 | 250 | 0905 | 0.0275 | 0910 | 18.69 | 7.56 | 0.22 | 8.68 | 83.1 | |
| 09/29/23 | 28 | 0950 | 0955 | 250 | 0955 | 0.0275 | 1000 | 18.90 | 7.64 | 0.21 | 8.73 | 64.4 | |
| 09/29/23 | 29 | 1055 | 1100 | 250 | 1100 | 0.0275 | 1102 | 19.82 | 7.70 | 0.22 | 8.86 | 145.7 | |
| 09/29/23 | 30 | 1155 | 1158 | 250 | 1158 | 0.0275 | 1201 | 19.97 | 7.76 | 0.22 | 8.74 | 123.1 | |
| 09/29/23 | 31 | 1300 | 1305 | 250 | 1305 | 0.0275 | 1306 | 25.54 | 7.68 | 0.20 | 7.48 | 68.8 | |
| 09/29/23 | 32 | 1415 | 1420 | 250 | 1420 | 0.0275 | 1425 | 24.68 | 7.88 | 0.21 | 7.98 | 126.7 | |
| 09/29/23 | 33 | 1450 | 1500 | 250 | 1500 | 0.0275 | 1502 | 22.61 | 7.96 | 0.22 | 8.61 | 68.4 | |
| 09/29/23 | 34 | 1535 | 1540 | 250 | 1540 | 0.0275 | 1545 | 23.14 | 7.94 | 0.21 | 8.42 | 96.5 | |
| 09/29/23 | 35 | 1622 | 1625 | 100 | 1625 | 0.011 | 1629 | 23.41 | 7.65 | 0.22 | 8.71 | 61.2 | |
| | | | | | 0840 | | | | | | | | |
| 09/30/23 | 36 | 0835 | 0840 | 250 | 0837 | 0.0275 | 0842 | 17.38 | 7.47 | 0.22 | 9.00 | 76.2 | |
| 09/30/23 | 37 | 0950 | 1000 | 250 | 1000 | 0.0275 | 1003 | 19.14 | 7.49 | 0.22 | 8.79 | 85.2 | |
| 09/30/23 | 38 | 1115 | 1117 | 250 | 1117 | 0.0275 | 1119 | 24.31 | 7.51 | 0.20 | 7.11 | 105.8 | |
| 09/30/23 | 39 | 1237 | 1240 | 250 | 1240 | 0.0275 | 1242 | 23.16 | 7.48 | 0.21 | 8.61 | 97.6 | |
| 09/30/23 | 40 | 1335 | 1337 | 250 | 1337 | 0.0275 | 1341 | 25.43 | 7.63 | 0.18 | 6.14 | 104.5 | |
| 09/30/23 | 41 | 1414 | 1417 | 250 | 1417 | 0.0275 | 1420 | 24.76 | 7.54 | 0.21 | 7.21 | 103.2 | |
| 09/30/23 | 42 | 1448 | 1452 | 250 | 1452 | 0.0275 | 1454 | 23.34 | 7.86 | 0.21 | 8.08 | 143.2 | |
| 09/30/23 | 43 | 1533 | 1536 | 250 | 1536 | 0.0275 | 1540 | 23.41 | 7.68 | 0.22 | 8.16 | 121.3 | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 10/01/23 | 44 | 0730 | 0735 | 250 | 0735 | 0.0275 | 0755 | 17.41 | 7.36 | 0.22 | 9.16 | 141.7 | |
| 10/01/23 | 45 | 0834 | 0836 | 250 | 0836 | 0.0275 | 0840 | 16.16 | 7.66 | 0.22 | 10.01 | 94.9 | |
| 10/01/23 | 46 | 0919 | 0922 | 250 | 0922 | 0.0275 | 0925 | 18.21 | 7.85 | 0.21 | 9.86 | 121.1 | |
| 10/01/23 | 47 | 1003 | 1005 | 250 | 1005 | 0.0275 | 1007 | 19.58 | 7.59 | 0.21 | 8.69 | 146.9 | |
| 10/01/23 | 48 | 1046 | 1048 | 250 | 1048 | 0.0275 | 1050 | 22.16 | 7.64 | 0.22 | 8.42 | 139.6 | |
| 10/01/23 | 49 | 1121 | 1124 | 250 | 1124 | 0.0275 | 1128 | 24.59 | 7.49 | 0.21 | 7.75 | 152.4 | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | 50 | 1250 | 1255 | 250 | 1255 | 0.0275 | 1301 | 24.10 | 7.70 | 0.20 | 7.76 | 151.6 | |

Injectate Batch Preparation Log

Project Name: Plant Hammond Ap-1 injections Page 3 of
 Project Number: GW65816 Field Personnel: M. Sadhasivan
 Date: 10/01/23 Weather: Sunny

| Batch # | Tank Fill | | | FeSO4 | | Geochemical Parameters | | | | | | Comments |
|----------------------------|--------------------|------------------|------------------|--------------|-------------|------------------------|-----------|---------|-------------------|-----------|----------|----------|
| | Start Time (hr:mm) | End Time (hr:mm) | Volume (gallons) | Time (hr:mm) | Amount (lb) | Time (hr:mm) | Temp (°C) | pH (SU) | Sp. Cond (µS/cm³) | DO (mg/L) | ORP (mV) | |
| 10/01/23 10/01/23 51 | 1400 | 1405 | 250 | 1405 | 0.0275 | 1410 | 21.68 | 7.94 | 0.21 | 8.26 | 131.2 | |
| 52 | 1526 | 1529 | 250 | 1529 | 0.0275 | 1533 | 22.41 | 7.86 | 0.22 | 8.14 | 161.9 | |
| 53 | | | | | | | | | | | | |
| 10/02/23 10/02/23 53 | 0740 | 0745 | 250 | 0745 | 0.0275 | 0800 | 17.25 | 7.46 | 0.22 | 8.73 | 132.4 | |
| 54 | 0830 | 0835 | 250 | 0835 | 0.0275 | 0850 | 18.09 | 7.61 | 0.22 | 8.85 | 147.5 | |
| 10/02/23 10/02/23 55 | 0924 | 0926 | 250 | 0926 | 0.0275 | 0930 | 19.69 | 7.32 | 0.21 | 9.68 | 125.5 | |
| 56 | 1010 | 1013 | 250 | 1013 | 0.0275 | 1015 | 22.90 | 7.67 | 0.20 | 7.87 | 116.3 | |
| 10/02/23 10/02/23 57 | 1115 | 1118 | 250 | 1118 | 0.0275 | 1121 | 23.41 | 7.81 | 0.21 | 9.61 | 126.9 | |
| 58 | 1202 | 1204 | 250 | 1204 | 0.0275 | 1208 | 21.98 | 7.78 | 0.21 | 8.29 | 133.4 | |
| 10/02/23 10/02/23 59 | 1304 | 1306 | 250 | 1306 | 0.0275 | 1310 | 23.61 | 7.86 | 0.22 | 9.58 | 146.7 | |
| 60 | 1403 | 1406 | 250 | 1406 | 0.0275 | 1410 | 23.78 | 7.55 | 0.22 | 8.16 | 155.5 | |
| 10/02/23 10/02/23 61 | 1515 | 1518 | 250 | 1518 | 0.0275 | 1525 | 23.42 | 7.48 | 0.22 | 9.66 | 104.6 | |
| 62 | 1625 | 1629 | 50 | 1629 | 0.0055 | 1632 | 23.62 | 7.66 | 0.21 | 9.11 | 122.3 | |
| 10/03/23 10/03/23 63 | 0755 | 0800 | 250 | 0800 | 0.0275 | 0800 | 16.64 | 7.64 | 0.22 | 9.44 | 158.8 | |
| 10/04/23 10/04/23 64 | 0800 | 0805 | 250 | - | - | 0805 | 17.61 | 7.81 | 0.21 | 8.62 | 404.5 | |

Injectate Batch Preparation Log

Project Name: Plant Hammond AP-1 injections Page 1 of
 Project Number: GWB5816 Field Personnel: M. Sathyan
 Date: 10/09/2023 Weather: Sunny

| Batch # | Tank Fill | | | FeSO4 | | Geochemical Parameters | | | | | Comments | |
|------------------------------|--------------------|-------------------------|------------------|-------------------------|-------------|------------------------|-----------|---------|-------------------|-----------|----------|----------|
| | Start Time (hr:mm) | End Time (hr:mm) | Volume (gallons) | Time (hr:mm) | Amount (lb) | Time (hr:mm) | Temp (°C) | pH (SU) | Sp. Cond (µs/cm³) | DO (mg/L) | | ORP (mV) |
| 10/09/2023 Potable | 1250 | 1255 | 175 | - | - | 1305 | 15.21 | 7.31 | 0.21 | 8.61 | 303.6 | |
| 10/09/2023 Potable | 1405 | 1407 | 175 | - | - | 1410 | 16.98 | 7.24 | 0.22 | 8.42 | 396.4 | |
| 10/09/2023 Potable | 1510 | 1515 | 175 | - | - | 1520 | 18.26 | 7.16 | 0.21 | 7.90 | 385.7 | |
| 10/10/23 #1 ^{IP-02} | 0902 | 0906 | 175 | 0906 | 0.0292 | 0908 | 15.61 | 7.48 | 0.19 | 8.63 | 80.2 | |
| 10/10/23 #2 | 0905 | 0908 | 175 | 0908 | 0.0292 | 0950 | 16.82 | 7.51 | 0.20 | 8.96 | 121.6 | |
| 10/10/23 #3 | 1028 | 1031 | 175 | 1031 | 0.0292 | 1033 | 18.44 | 7.46 | 0.20 | 8.56 | 196.8 | |
| 10/10/23 #4 | 1118 | 1121 | 175 | 1121 | 0.0292 | 1130 | 19.68 | 7.49 | 0.20 | 8.43 | 123.6 | |
| 10/10/23 #5 | 1521 | 1524 | 175 | 1524 | 0.0292 | 1530 | 22.61 | 7.32 | 0.21 | 8.96 | 186.4 | |
| 10/10/23 #6 | 1652 | 1654 | 175 | 1654 | 0.0292 | 1655 | 23.78 | 7.48 | 0.22 | 8.12 | 141.3 | |
| 10/11/23 #7 | 0759 | 0802 | 175 | 0802 | 0.0292 | 0804 | 16.41 | 7.39 | 0.20 | 8.21 | 128.6 | |
| 10/11/23 #8 | 0835 | 0835 | 175 | 0835 | 0.0292 | 0837 | 17.68 | 7.56 | 0.20 | 7.96 | 153.6 | |
| 10/11/23 IP-03 | | | | | | | | | | | | |
| 10/11/23 #1 | 1044 | 1047 | 175 | 1047 | 0.0292 | 1051 | 18.71 | 7.44 | 0.20 | 8.33 | 129.6 | |
| 10/11/23 #2 | 1140 | 1145 | 175 | 1145 | 0.0292 | 1154 | 18.92 | 7.51 | 0.21 | 8.54 | 134.7 | |
| 10/11/23 #3 | 1310 | 1313 | 175 | 1313 | 0.0292 | 1317 | 19.01 | 7.53 | 0.20 | 7.96 | 102.9 | |
| 10/11/23 #4 | 1347 | 1349 1440 | 175 | 1349 1440 | 0.0292 | 1352 | 19.34 | 7.46 | 0.22 | 8.71 | 111.3 | |
| 10/11/23 #5 | 1437 | 1530 1540 | 175 | 1530 1540 | 0.0292 | 1445 | 19.51 | 7.37 | 0.19 | 7.88 | 127.4 | |
| 10/11/23 #6 | 1525 | 1530 | 175 | 1530 | 0.0292 | 1535 | 19.88 | 7.49 | 0.20 | 8.54 | 107.8 | |
| 10/11/23 #7 | 1710 | 1715 | 175 | 1715 | 0.0292 | 1720 | 20.71 | 7.50 | 0.21 | 8.31 | 148.6 | |
| 10/12/23 #8 | 0755 | 0757 | 175 | 0757 | 0.0292 | 0800 | 16.78 | 7.56 | 0.22 | 8.62 | 122.7 | |
| 10/12/23 #9 | 0838 | 0841 | 175 | 0841 | 0.0292 | 0843 | 16.96 | 7.48 | 0.21 | 7.99 | 135.4 | |
| 10/12/23 #10 | 0919 | 0921 | 175 | 0921 | 0.0292 | 0924 | 17.21 | 7.42 | 0.22 | 8.04 | 101.6 | |
| 10/12/23 #11 | 1000 | 1002 | 175 | 1002 | 0.0292 | 1005 | 17.48 | 7.49 | 0.20 | 8.36 | 86.9 | |

Injectate Batch Preparation Log

Project Name: Plant Hammond AP-1 Injection Page 2 of

Project Number: GW65816 Field Personnel: M. Sedhewian

Date: 10/12/2023 Weather:

| Batch # | Tank Fill | | | FeSO4 | | Geochemical Parameters | | | | | | Comments |
|------------------|--------------------|------------------|------------------|--------------|-------------|------------------------|-----------|---------|-------------------|-----------|----------|----------|
| | Start Time (hr:mm) | End Time (hr:mm) | Volume (gallons) | Time (hr:mm) | Amount (lb) | Time (hr:mm) | Temp (°C) | pH (SU) | Sp. Cond (µs/cm³) | DO (mg/L) | ORP (mV) | |
| 10/12/2023 #12 | 1033 | 1036 | 175 | 1036 | 0.0292 | 1038 | 18.26 | 7.48 | 0.20 | 8.65 | 86.7 | |
| 10/12/2023 #13 | 1116 | 1118 | 175 | 1118 | 0.0292 | 1120 | 18.91 | 7.66 | 0.21 | 7.98 | 103.4 | |
| 10/12/2023 #14 | 1153 | 1155 | 175 | 1155 | 0.0292 | 1200 | 18.74 | 7.50 | 0.20 | 8.32 | 99.8 | |
| 10/12/2023 #1 | 1311 | 1314 | 175 | 1314 | 0.0292 | 1318 | 18.38 | 7.52 | 0.21 | 8.04 | 121.8 | |
| 10/12/2023 #2 | 1354 | 1357 | 175 | 1357 | 0.0292 | 1400 | 19.21 | 7.39 | 0.21 | 8.96 | 116.7 | |
| 10/12/2023 #3 | 1443 | 1445 | 175 | 1448 | 0.0292 | 1448 | 19.74 | 7.54 | 0.21 | 7.44 | 125.5 | |
| 10/12/2023 #4 | 1519 | 1521 | 175 | 1521 | 0.0292 | 1525 | 19.62 | 7.49 | 0.21 | 9.31 | 136.9 | |
| 10/12/2023 #5 | 1604 | 1606 | 175 | 1606 | 0.0292 | 1615 | 20.17 | 7.68 | 0.22 | 8.76 | 120.4 | |
| 10/13/2023 #6 | 0850 | 0854 | 250 | 0854 | 0.041 | 0900 | 16.24 | 7.42 | 0.19 | 7.21 | 103.6 | |
| 10/13/2023 #7 | 1040 | 1044 | 175 | 1044 | 0.0292 | 1047 | 17.18 | 7.55 | 0.20 | 8.62 | 139.4 | |
| 10/13/2023 #8 | 1203 | 1206 | 175 | 1206 | 0.0292 | 1210 | 17.63 | 7.39 | 0.20 | 9.38 | 146.8 | |
| 10/13/2023 #9 | 1258 | 1300 | 175 | 1300 | 0.0292 | 1304 | 18.04 | 7.44 | 0.22 | 9.16 | 121.1 | |
| 10/13/2023 #10 | 1327 | 1330 | 175 | 1330 | 0.0292 | 1335 | 18.96 | 7.46 | 0.20 | 7.24 | 111.7 | |
| 10/13/2023 #11 | 1415 | 1418 | 175 | 1418 | 0.0292 | 1424 | 19.42 | 7.52 | 0.19 | 8.96 | 102.9 | |
| 10/13/2023 #12 | 1454 | 1458 | 175 | 1458 | 0.0292 | 1502 | 19.31 | 7.38 | 0.18 | 8.54 | 136.4 | |
| 10/13/2023 #1 37 | 1625 | 1629 | 175 | 1629 | 0.0292 | 1632 | 18.98 | 7.51 | 0.19 | 8.66 | 124.5 | |
| 10/14/2023 #2 | 0750 | 0755 | 175 | 0755 | 0.0292 | 0800 | 16.81 | 7.44 | 0.20 | 7.34 | 125.6 | |
| 10/14/2023 #3 37 | 0940 | 0943 | 175 | 0943 | 0.0292 | 0947 | 17.28 | 7.38 | 0.20 | 7.71 | 133.6 | |
| 10/14/2023 #4 | 1024 | 1027 | 175 | 1027 | 0.0292 | 1030 | 17.96 | 7.52 | 0.22 | 8.89 | 139.8 | |
| 10/14/2023 #5 37 | 1110 | 1112 | 175 | 1112 | 0.0292 | 1115 | 18.54 | 7.56 | 0.19 | 7.42 | 146.7 | |
| 10/14/2023 #6 | 1203 | 1205 | 175 | 1205 | 0.0292 | 1210 | 19.61 | 7.49 | 0.21 | 8.36 | 140.4 | |
| 10/14/2023 #7 37 | 1250 | 1253 | 175 | 1253 | 0.0292 | 1300 | 20.21 | 7.50 | 0.20 | 8.41 | 127.9 | |
| 10/14/2023 #8 | 1330 | 1333 | 175 | 1333 | 0.0292 | 1335 | 20.78 | 7.36 | 0.19 | 8.44 | 119.6 | |

Injectate Batch Preparation Log

Project Name: Plant Hammond AP-1 Injection Page 3 of
 Project Number: 6W65816 Field Personnel: M. Satharivan
 Date: 10/14/2023 Weather: Partly Cloudy

| Batch # | Tank Fill | | | FeSO4 | | Geochemical Parameters | | | | | | Comments |
|-----------------|--------------------|------------------|------------------|--------------|-------------|------------------------|-----------|---------|--------------------------------|-----------|----------|------------------------|
| | Start Time (hr:mm) | End Time (hr:mm) | Volume (gallons) | Time (hr:mm) | Amount (lb) | Time (hr:mm) | Temp (°C) | pH (SU) | Sp. Cond (µs/cm ²) | DO (mg/L) | ORP (mV) | |
| 10/14/2023 #9 | 1415 | 1420 | 175 | 1420 | 0.0292 | 1422 | 21.21 | 7.49 | 0.20 | 8.61 | 121.4 | |
| 10/14/2023 #10 | 1620 | 1625 | 260 | 1625 | 0.0433 | 1627 | 21.76 | 7.64 | 0.19 | 8.92 | 123.6 | |
| IP-08A | | | | | | | | | | | | |
| 10/15/2023 #1 | 1140 | 1145 | 250 | 1145 | 0.0275 | 1150 | 18.69 | 7.69 | 0.20 | 8.94 | 123.3 | |
| 10/15/2023 #2 | 1315 | 1320 | 250 | 1320 | 0.0275 | 1330 | 18.98 | 7.54 | 0.21 | 8.18 | 102.6 | |
| 10/15/2023 #3 | 1540 | 1545 | 250 | 1545 | 0.0275 | 1550 | 19.62 | 7.95 | 0.21 | 8.26 | 101.4 | MgO injectate |
| 10/16/2023 #4 | 0735 | 0740 | 250 | 0740 | 0.0275 | 0744 | 16.41 | 7.68 | 0.19 | 8.45 | 124.6 | MgO |
| 10/16/2023 #5 | 0840 | 0845 | 250 | 0845 | 0.0275 | 0849 | 16.72 | 7.74 | 0.20 | 8.94 | 121.6 | MgO |
| 10/16/2023 #6 | 0929 | 0932 | 250 | 0932 | 0.0275 | 0936 | 17.21 | 7.45 | 0.20 | 8.31 | 135.4 | MgO |
| 10/16/2023 #7 | 1025 | 1030 | 215 | 1030 | 0.0275 | 1034 | 18.61 | 7.96 | 0.20 | 8.04 | 146.7 | MgO |
| 10/16/2023 #8 | 1124 | 1127 | 250 | 1127 | 0.0275 | 1130 | 17.96 | 7.88 | 0.21 | 7.96 | 144.8 | MgO |
| 10/16/2023 #9 | 1215 | 1220 | 250 | 1220 | 0.0275 | 1225 | 17.42 | 7.85 | 0.20 | 7.45 | 148.6 | MgO |
| 10/16/2023 #10 | 1310 | 1315 | 250 | 1315 | 0.0275 | 1320 | 16.98 | 7.96 | 0.21 | 7.98 | 123.7 | MgO |
| 10/16/2023 #10a | 1519 | 1520 | 125 | 1520 | 0.0275 | 1522 | 19.34 | 7.64 | 0.20 | 7.89 | 156.9 | 175 gallons with MgO + |
| 10/16/2023 #11 | 1637 | 1640 | 250 | 1640 | 0.0275 | 1645 | 18.71 | 7.58 | 0.19 | 8.24 | 144.4 | 125 gallons with FeSO4 |
| 10/17/2023 #12 | 0739 | 0737 | 250 | 0737 | 0.0275 | 0750 | 16.71 | 7.44 | 0.22 | 8.55 | 123.9 | |
| 10/17/2023 #13 | 0850 | 0854 | 250 | 0854 | 0.0275 | 0858 | 16.85 | 7.48 | 0.21 | 9.68 | 139.3 | |
| 10/17/2023 #14 | 1010 | 1015 | 85 | 1015 | 0.00935 | 1020 | 17.96 | 7.36 | 0.21 | 8.41 | 122.5 | |

Pilot Study Laboratory Analytical Results

July 2023



July 28, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92677694

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on July 17, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-1

Pace Project No.: 92677694

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1

Pace Project No.: 92677694

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------|--------|----------------|----------------|
| 92677694001 | HAM-HGWC-8 | Water | 07/13/23 10:35 | 07/17/23 12:30 |
| 92677694002 | HAM-PT-09 | Water | 07/13/23 12:47 | 07/17/23 12:30 |
| 92677694003 | HAM-PT-10 | Water | 07/13/23 14:15 | 07/17/23 12:30 |
| 92677694004 | HAM-PT-07 | Water | 07/13/23 16:22 | 07/17/23 12:30 |
| 92677694005 | HAM-PT-08 | Water | 07/13/23 17:51 | 07/17/23 12:30 |
| 92677694006 | HAM-AP1-FD-01 | Water | 07/13/23 00:00 | 07/17/23 12:30 |
| 92677694007 | HAM-AP1-FB-01 | Water | 07/17/23 08:40 | 07/17/23 12:30 |
| 92677694008 | HAM-HGWC-13 | Water | 07/17/23 11:47 | 07/17/23 12:30 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
 Pace Project No.: 92677694

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------|------------------------|----------|-------------------|
| 92677694001 | HAM-HGWC-8 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 12 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | YEG | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92677694002 | HAM-PT-09 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 12 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | YEG | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92677694003 | HAM-PT-10 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 12 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92677694004 | HAM-PT-07 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 12 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92677694005 | HAM-PT-08 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 12 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92677694006 | HAM-AP1-FD-01 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 12 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1

Pace Project No.: 92677694

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------|------------------------|----------|-------------------|
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92677694007 | HAM-AP1-FB-01 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 12 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92677694008 | HAM-HGWC-13 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 12 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92677694

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|-----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92677694001 | HAM-HGWC-8 | | | | | |
| | Performed by | CUSTOME | | | 07/17/23 17:16 | |
| | | R | | | | |
| | pH | 6.65 | Std. Units | | 07/17/23 17:16 | |
| EPA 6010D | Manganese | 0.28 | mg/L | 0.040 | 07/20/23 15:39 | |
| EPA 6010D | Potassium | 6.9 | mg/L | 0.50 | 07/20/23 15:39 | |
| EPA 6010D | Sodium | 8.8 | mg/L | 1.0 | 07/20/23 15:39 | M1 |
| EPA 6010D | Calcium | 107 | mg/L | 1.0 | 07/20/23 15:39 | M1 |
| EPA 6010D | Magnesium | 14.9 | mg/L | 0.050 | 07/20/23 15:39 | M1 |
| EPA 6010D | Iron | 0.27 | mg/L | 0.040 | 07/25/23 15:53 | |
| EPA 6020B | Barium | 0.047 | mg/L | 0.0050 | 07/19/23 17:55 | |
| EPA 6020B | Beryllium | 0.000073J | mg/L | 0.00050 | 07/19/23 17:55 | |
| EPA 6020B | Boron | 2.0 | mg/L | 0.20 | 07/21/23 16:37 | |
| EPA 6020B | Cadmium | 0.00031J | mg/L | 0.00050 | 07/19/23 17:55 | |
| EPA 6020B | Cobalt | 0.0015J | mg/L | 0.0050 | 07/19/23 17:55 | |
| EPA 6020B | Lithium | 0.0015J | mg/L | 0.030 | 07/19/23 17:55 | |
| EPA 6020B | Molybdenum | 0.30 | mg/L | 0.010 | 07/19/23 17:55 | |
| EPA 6020B | Thallium | 0.00026J | mg/L | 0.0010 | 07/19/23 17:55 | |
| SM 2540C-2015 | Total Dissolved Solids | 513 | mg/L | 25.0 | 07/18/23 15:24 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 136 | mg/L | 5.0 | 07/19/23 19:16 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 136 | mg/L | 5.0 | 07/19/23 19:16 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 47.9 | mg/L | 1.0 | 07/19/23 03:12 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.49 | mg/L | 0.10 | 07/19/23 03:12 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 163 | mg/L | 3.0 | 07/19/23 09:10 | |
| 92677694002 | HAM-PT-09 | | | | | |
| | Performed by | CUSTOME | | | 07/17/23 17:16 | |
| | | R | | | | |
| | pH | 6.57 | Std. Units | | 07/17/23 17:16 | |
| EPA 6010D | Iron | 0.33 | mg/L | 0.040 | 07/25/23 16:08 | |
| EPA 6010D | Manganese | 0.79 | mg/L | 0.040 | 07/20/23 15:59 | |
| EPA 6010D | Potassium | 6.8 | mg/L | 0.50 | 07/20/23 15:59 | |
| EPA 6010D | Sodium | 10.6 | mg/L | 1.0 | 07/20/23 15:59 | |
| EPA 6010D | Calcium | 110 | mg/L | 1.0 | 07/20/23 15:59 | |
| EPA 6010D | Magnesium | 15.6 | mg/L | 0.050 | 07/20/23 15:59 | |
| EPA 6020B | Antimony | 0.0027J | mg/L | 0.0030 | 07/19/23 18:19 | |
| EPA 6020B | Barium | 0.053 | mg/L | 0.0050 | 07/19/23 18:19 | |
| EPA 6020B | Beryllium | 0.000077J | mg/L | 0.00050 | 07/19/23 18:19 | |
| EPA 6020B | Boron | 2.1 | mg/L | 0.20 | 07/21/23 16:55 | |
| EPA 6020B | Cobalt | 0.0045J | mg/L | 0.0050 | 07/19/23 18:19 | |
| EPA 6020B | Lithium | 0.0013J | mg/L | 0.030 | 07/19/23 18:19 | |
| EPA 6020B | Molybdenum | 0.065 | mg/L | 0.010 | 07/19/23 18:19 | |
| SM 2540C-2015 | Total Dissolved Solids | 534 | mg/L | 25.0 | 07/18/23 15:24 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 144 | mg/L | 5.0 | 07/19/23 19:26 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 144 | mg/L | 5.0 | 07/19/23 19:26 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 55.3 | mg/L | 1.0 | 07/19/23 03:27 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.24 | mg/L | 0.10 | 07/19/23 03:27 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 160 | mg/L | 3.0 | 07/19/23 09:53 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92677694

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92677694003 | HAM-PT-10 | | | | | |
| | Performed by | CUSTOMER | | | 07/17/23 17:16 | |
| | pH | 7.01 | Std. Units | | 07/17/23 17:16 | |
| EPA 6010D | Manganese | 3.5 | mg/L | 0.040 | 07/20/23 16:14 | |
| EPA 6010D | Potassium | 7.1 | mg/L | 0.50 | 07/20/23 16:14 | |
| EPA 6010D | Sodium | 10.5 | mg/L | 1.0 | 07/20/23 16:14 | |
| EPA 6010D | Calcium | 127 | mg/L | 1.0 | 07/20/23 16:14 | |
| EPA 6010D | Magnesium | 16.8 | mg/L | 0.050 | 07/20/23 16:14 | |
| EPA 6010D | Iron | 3.1 | mg/L | 0.040 | 07/25/23 16:12 | |
| EPA 6020B | Barium | 0.074 | mg/L | 0.0050 | 07/19/23 18:25 | |
| EPA 6020B | Boron | 2.2 | mg/L | 0.20 | 07/21/23 17:01 | |
| EPA 6020B | Cobalt | 0.0026J | mg/L | 0.0050 | 07/19/23 18:25 | |
| EPA 6020B | Lithium | 0.0014J | mg/L | 0.030 | 07/19/23 18:25 | |
| EPA 6020B | Molybdenum | 0.10 | mg/L | 0.010 | 07/19/23 18:25 | |
| SM 2540C-2015 | Total Dissolved Solids | 557 | mg/L | 25.0 | 07/18/23 15:24 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 185 | mg/L | 5.0 | 07/20/23 16:41 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 185 | mg/L | 5.0 | 07/20/23 16:41 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 67.2 | mg/L | 1.0 | 07/19/23 04:10 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.33 | mg/L | 0.10 | 07/19/23 04:10 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 145 | mg/L | 3.0 | 07/19/23 10:07 | |
| 92677694004 | HAM-PT-07 | | | | | |
| | Performed by | CUSTOMER | | | 07/17/23 17:16 | |
| | pH | 6.76 | Std. Units | | 07/17/23 17:16 | |
| EPA 6010D | Manganese | 8.2 | mg/L | 0.040 | 07/20/23 16:19 | |
| EPA 6010D | Potassium | 6.0 | mg/L | 0.50 | 07/20/23 16:19 | |
| EPA 6010D | Sodium | 6.1 | mg/L | 1.0 | 07/20/23 16:19 | |
| EPA 6010D | Calcium | 168 | mg/L | 1.0 | 07/20/23 16:19 | |
| EPA 6010D | Magnesium | 18.5 | mg/L | 0.050 | 07/20/23 16:19 | |
| EPA 6010D | Iron | 23.8 | mg/L | 0.040 | 07/25/23 16:17 | |
| EPA 6020B | Arsenic | 0.34 | mg/L | 0.010 | 07/19/23 18:30 | |
| EPA 6020B | Barium | 0.056 | mg/L | 0.0050 | 07/19/23 18:30 | |
| EPA 6020B | Beryllium | 0.00012J | mg/L | 0.00050 | 07/19/23 18:30 | |
| EPA 6020B | Boron | 1.0 | mg/L | 0.20 | 07/21/23 17:07 | |
| EPA 6020B | Cobalt | 0.13 | mg/L | 0.0050 | 07/19/23 18:30 | |
| EPA 6020B | Lithium | 0.060 | mg/L | 0.030 | 07/19/23 18:30 | |
| EPA 6020B | Molybdenum | 0.017 | mg/L | 0.010 | 07/19/23 18:30 | |
| EPA 6020B | Thallium | 0.00024J | mg/L | 0.0010 | 07/19/23 18:30 | |
| SM 2540C-2015 | Total Dissolved Solids | 808 | mg/L | 25.0 | 07/18/23 15:24 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 102 | mg/L | 5.0 | 07/20/23 16:53 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 102 | mg/L | 5.0 | 07/20/23 16:53 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 15.7 | mg/L | 1.0 | 07/19/23 04:24 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.36 | mg/L | 0.10 | 07/19/23 04:24 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 411 | mg/L | 9.0 | 07/19/23 10:21 | |
| 92677694005 | HAM-PT-08 | | | | | |
| | Performed by | CUSTOMER | | | 07/17/23 17:17 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92677694

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92677694005 | HAM-PT-08 | | | | | |
| | pH | 6.66 | Std. Units | | 07/17/23 17:17 | |
| EPA 6010D | Manganese | 8.7 | mg/L | 0.040 | 07/20/23 16:24 | |
| EPA 6010D | Potassium | 6.0 | mg/L | 0.50 | 07/20/23 16:24 | |
| EPA 6010D | Sodium | 6.9 | mg/L | 1.0 | 07/20/23 16:24 | |
| EPA 6010D | Calcium | 161 | mg/L | 1.0 | 07/20/23 16:24 | |
| EPA 6010D | Magnesium | 18.9 | mg/L | 0.050 | 07/20/23 16:24 | |
| EPA 6010D | Iron | 24.2 | mg/L | 0.040 | 07/25/23 16:38 | |
| EPA 6020B | Arsenic | 0.33 | mg/L | 0.010 | 07/19/23 18:36 | |
| EPA 6020B | Barium | 0.051 | mg/L | 0.0050 | 07/19/23 18:36 | |
| EPA 6020B | Beryllium | 0.00011J | mg/L | 0.00050 | 07/19/23 18:36 | |
| EPA 6020B | Boron | 1.0 | mg/L | 0.20 | 07/21/23 17:13 | |
| EPA 6020B | Cobalt | 0.031 | mg/L | 0.0050 | 07/19/23 18:36 | |
| EPA 6020B | Lithium | 0.065 | mg/L | 0.030 | 07/19/23 18:36 | |
| EPA 6020B | Molybdenum | 0.0079J | mg/L | 0.010 | 07/19/23 18:36 | |
| SM 2540C-2015 | Total Dissolved Solids | 734 | mg/L | 25.0 | 07/18/23 15:25 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 107 | mg/L | 5.0 | 07/20/23 17:03 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 107 | mg/L | 5.0 | 07/20/23 17:03 | |
| SM 4500-S2D-2011 | Sulfide | 0.036J | mg/L | 0.10 | 07/20/23 03:42 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 17.0 | mg/L | 1.0 | 07/19/23 04:38 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.36 | mg/L | 0.10 | 07/19/23 04:38 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 417 | mg/L | 8.0 | 07/19/23 12:00 | |
| 92677694006 | HAM-AP1-FD-01 | | | | | |
| EPA 6010D | Iron | 24.6 | mg/L | 0.040 | 07/25/23 16:48 | |
| EPA 6010D | Manganese | 8.6 | mg/L | 0.040 | 07/20/23 16:29 | |
| EPA 6010D | Potassium | 6.4 | mg/L | 0.50 | 07/20/23 16:29 | |
| EPA 6010D | Sodium | 6.6 | mg/L | 1.0 | 07/20/23 16:29 | |
| EPA 6010D | Calcium | 180 | mg/L | 1.0 | 07/20/23 16:29 | |
| EPA 6010D | Magnesium | 19.6 | mg/L | 0.050 | 07/20/23 16:29 | |
| EPA 6020B | Arsenic | 0.34 | mg/L | 0.010 | 07/19/23 18:54 | |
| EPA 6020B | Barium | 0.057 | mg/L | 0.0050 | 07/19/23 18:54 | |
| EPA 6020B | Beryllium | 0.00011J | mg/L | 0.00050 | 07/19/23 18:54 | |
| EPA 6020B | Boron | 0.99 | mg/L | 0.20 | 07/21/23 17:19 | |
| EPA 6020B | Cobalt | 0.14 | mg/L | 0.0050 | 07/19/23 18:54 | |
| EPA 6020B | Lithium | 0.060 | mg/L | 0.030 | 07/19/23 18:54 | |
| EPA 6020B | Molybdenum | 0.018 | mg/L | 0.010 | 07/19/23 18:54 | |
| EPA 6020B | Thallium | 0.00025J | mg/L | 0.0010 | 07/19/23 18:54 | |
| SM 2540C-2015 | Total Dissolved Solids | 804 | mg/L | 25.0 | 07/18/23 15:25 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 102 | mg/L | 5.0 | 07/20/23 17:12 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 102 | mg/L | 5.0 | 07/20/23 17:12 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 15.6 | mg/L | 1.0 | 07/19/23 04:53 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.31 | mg/L | 0.10 | 07/19/23 04:53 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 428 | mg/L | 9.0 | 07/19/23 12:56 | |
| 92677694008 | HAM-HGWC-13 | | | | | |
| | Performed by | CUSTOME | | | 07/17/23 17:17 | |
| | | R | | | | |
| | pH | 6.67 | Std. Units | | 07/17/23 17:17 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92677694

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|----------|-------|--------------|----------------|------------|
| 92677694008 | HAM-HGWC-13 | | | | | |
| EPA 6010D | Iron | 7.2 | mg/L | 0.040 | 07/20/23 16:39 | |
| EPA 6010D | Manganese | 8.9 | mg/L | 0.040 | 07/20/23 16:39 | |
| EPA 6010D | Potassium | 6.0 | mg/L | 0.50 | 07/20/23 16:39 | |
| EPA 6010D | Sodium | 6.8 | mg/L | 1.0 | 07/20/23 16:39 | |
| EPA 6010D | Calcium | 179 | mg/L | 1.0 | 07/20/23 16:39 | |
| EPA 6010D | Magnesium | 19.5 | mg/L | 0.050 | 07/20/23 16:39 | |
| EPA 6020B | Arsenic | 0.63 | mg/L | 0.010 | 07/19/23 19:06 | |
| EPA 6020B | Barium | 0.056 | mg/L | 0.0050 | 07/19/23 19:06 | |
| EPA 6020B | Beryllium | 0.00012J | mg/L | 0.00050 | 07/19/23 19:06 | |
| EPA 6020B | Boron | 1.0 | mg/L | 0.20 | 07/21/23 17:43 | |
| EPA 6020B | Cobalt | 0.018 | mg/L | 0.0050 | 07/19/23 19:06 | |
| EPA 6020B | Lithium | 0.048 | mg/L | 0.030 | 07/19/23 19:06 | |
| EPA 6020B | Molybdenum | 0.017 | mg/L | 0.010 | 07/19/23 19:06 | |
| EPA 6020B | Thallium | 0.00030J | mg/L | 0.0010 | 07/19/23 19:06 | |
| SM 2540C-2015 | Total Dissolved Solids | 817 | mg/L | 25.0 | 07/18/23 15:31 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 140 | mg/L | 5.0 | 07/20/23 17:26 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 140 | mg/L | 5.0 | 07/20/23 17:26 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 17.8 | mg/L | 1.0 | 07/19/23 05:50 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.32 | mg/L | 0.10 | 07/19/23 05:50 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 393 | mg/L | 8.0 | 07/19/23 13:10 | M1 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

Sample: HAM-HGWC-8 Lab ID: 92677694001 Collected: 07/13/23 10:35 Received: 07/17/23 12:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|------------------|------------|--------------|----------|----|----------------|----------------|-----------|------|
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 07/17/23 17:16 | | |
| pH | 6.65 | Std. Units | | | 1 | | 07/17/23 17:16 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Manganese | 0.28 | mg/L | 0.040 | 0.011 | 1 | 07/20/23 09:50 | 07/20/23 15:39 | 7439-96-5 | |
| Potassium | 6.9 | mg/L | 0.50 | 0.15 | 1 | 07/20/23 09:50 | 07/20/23 15:39 | 7440-09-7 | |
| Sodium | 8.8 | mg/L | 1.0 | 0.58 | 1 | 07/20/23 09:50 | 07/20/23 15:39 | 7440-23-5 | M1 |
| Calcium | 107 | mg/L | 1.0 | 0.12 | 1 | 07/20/23 09:50 | 07/20/23 15:39 | 7440-70-2 | M1 |
| Magnesium | 14.9 | mg/L | 0.050 | 0.012 | 1 | 07/20/23 09:50 | 07/20/23 15:39 | 7439-95-4 | M1 |
| Iron | 0.27 | mg/L | 0.040 | 0.025 | 1 | 07/20/23 09:50 | 07/25/23 15:53 | 7439-89-6 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7440-38-2 | |
| Barium | 0.047 | mg/L | 0.0050 | 0.00067 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7440-39-3 | |
| Beryllium | 0.000073J | mg/L | 0.00050 | 0.000054 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7440-41-7 | |
| Boron | 2.0 | mg/L | 0.20 | 0.043 | 5 | 07/18/23 13:46 | 07/21/23 16:37 | 7440-42-8 | |
| Cadmium | 0.00031J | mg/L | 0.00050 | 0.00011 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7440-47-3 | |
| Cobalt | 0.0015J | mg/L | 0.0050 | 0.00039 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7440-48-4 | |
| Lithium | 0.0015J | mg/L | 0.030 | 0.00073 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7439-93-2 | |
| Molybdenum | 0.30 | mg/L | 0.010 | 0.00074 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7782-49-2 | |
| Thallium | 0.00026J | mg/L | 0.0010 | 0.00018 | 1 | 07/18/23 13:46 | 07/19/23 17:55 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 07/27/23 12:00 | 07/27/23 14:51 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 513 | mg/L | 25.0 | 25.0 | 1 | | 07/18/23 15:24 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 136 | mg/L | 5.0 | 5.0 | 1 | | 07/19/23 19:16 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 07/19/23 19:16 | | |
| Alkalinity, Total as CaCO3 | 136 | mg/L | 5.0 | 5.0 | 1 | | 07/19/23 19:16 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

| Sample: HAM-HGWC-8 | | Lab ID: 92677694001 | | Collected: 07/13/23 10:35 | | Received: 07/17/23 12:30 | | Matrix: Water | |
|--------------------------------|-------------|---|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 07/20/23 03:39 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 47.9 | mg/L | 1.0 | 0.60 | 1 | | 07/19/23 03:12 | 16887-00-6 | |
| Fluoride | 0.49 | mg/L | 0.10 | 0.050 | 1 | | 07/19/23 03:12 | 16984-48-8 | |
| Sulfate | 163 | mg/L | 3.0 | 1.5 | 3 | | 07/19/23 09:10 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|------------------|------------|--------------|----------|----|----------------|----------------|-----------|------|
| Sample: HAM-PT-09 | | | | | | | | | |
| Lab ID: 92677694002 | | | | | | | | | |
| Collected: 07/13/23 12:47 | | | | | | | | | |
| Received: 07/17/23 12:30 | | | | | | | | | |
| Matrix: Water | | | | | | | | | |
| Field Data | | | | | | | | | |
| Analytical Method: | | | | | | | | | |
| Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 07/17/23 17:16 | | |
| pH | 6.57 | Std. Units | | | 1 | | 07/17/23 17:16 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.33 | mg/L | 0.040 | 0.025 | 1 | 07/20/23 09:50 | 07/25/23 16:08 | 7439-89-6 | |
| Manganese | 0.79 | mg/L | 0.040 | 0.011 | 1 | 07/20/23 09:50 | 07/20/23 15:59 | 7439-96-5 | |
| Potassium | 6.8 | mg/L | 0.50 | 0.15 | 1 | 07/20/23 09:50 | 07/20/23 15:59 | 7440-09-7 | |
| Sodium | 10.6 | mg/L | 1.0 | 0.58 | 1 | 07/20/23 09:50 | 07/20/23 15:59 | 7440-23-5 | |
| Calcium | 110 | mg/L | 1.0 | 0.12 | 1 | 07/20/23 09:50 | 07/20/23 15:59 | 7440-70-2 | |
| Magnesium | 15.6 | mg/L | 0.050 | 0.012 | 1 | 07/20/23 09:50 | 07/20/23 15:59 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | 0.0027J | mg/L | 0.0030 | 0.0012 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7440-38-2 | |
| Barium | 0.053 | mg/L | 0.0050 | 0.00067 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7440-39-3 | |
| Beryllium | 0.000077J | mg/L | 0.00050 | 0.000054 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7440-41-7 | |
| Boron | 2.1 | mg/L | 0.20 | 0.043 | 5 | 07/18/23 13:46 | 07/21/23 16:55 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7440-47-3 | |
| Cobalt | 0.0045J | mg/L | 0.0050 | 0.00039 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7440-48-4 | |
| Lithium | 0.0013J | mg/L | 0.030 | 0.00073 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7439-93-2 | |
| Molybdenum | 0.065 | mg/L | 0.010 | 0.00074 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 07/18/23 13:46 | 07/19/23 18:19 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 07/27/23 12:00 | 07/27/23 14:53 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 534 | mg/L | 25.0 | 25.0 | 1 | | 07/18/23 15:24 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 144 | mg/L | 5.0 | 5.0 | 1 | | 07/19/23 19:26 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 07/19/23 19:26 | | |
| Alkalinity, Total as CaCO3 | 144 | mg/L | 5.0 | 5.0 | 1 | | 07/19/23 19:26 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

| Sample: HAM-PT-09 | | Lab ID: 92677694002 | | Collected: 07/13/23 12:47 | Received: 07/17/23 12:30 | Matrix: Water | | | |
|--------------------------------|-------------|---|--------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 07/20/23 03:41 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 55.3 | mg/L | 1.0 | 0.60 | 1 | | 07/19/23 03:27 | 16887-00-6 | |
| Fluoride | 0.24 | mg/L | 0.10 | 0.050 | 1 | | 07/19/23 03:27 | 16984-48-8 | |
| Sulfate | 160 | mg/L | 3.0 | 1.5 | 3 | | 07/19/23 09:53 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

Sample: HAM-PT-10 **Lab ID: 92677694003** Collected: 07/13/23 14:15 Received: 07/17/23 12:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|-----------------|------------|--------------|----------|----|----------------|----------------|-----------|------|
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 07/17/23 17:16 | | |
| pH | 7.01 | Std. Units | | | 1 | | 07/17/23 17:16 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Manganese | 3.5 | mg/L | 0.040 | 0.011 | 1 | 07/20/23 09:50 | 07/20/23 16:14 | 7439-96-5 | |
| Potassium | 7.1 | mg/L | 0.50 | 0.15 | 1 | 07/20/23 09:50 | 07/20/23 16:14 | 7440-09-7 | |
| Sodium | 10.5 | mg/L | 1.0 | 0.58 | 1 | 07/20/23 09:50 | 07/20/23 16:14 | 7440-23-5 | |
| Calcium | 127 | mg/L | 1.0 | 0.12 | 1 | 07/20/23 09:50 | 07/20/23 16:14 | 7440-70-2 | |
| Magnesium | 16.8 | mg/L | 0.050 | 0.012 | 1 | 07/20/23 09:50 | 07/20/23 16:14 | 7439-95-4 | |
| Iron | 3.1 | mg/L | 0.040 | 0.025 | 1 | 07/20/23 09:50 | 07/25/23 16:12 | 7439-89-6 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7440-38-2 | |
| Barium | 0.074 | mg/L | 0.0050 | 0.00067 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7440-41-7 | |
| Boron | 2.2 | mg/L | 0.20 | 0.043 | 5 | 07/18/23 13:46 | 07/21/23 17:01 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7440-47-3 | |
| Cobalt | 0.0026J | mg/L | 0.0050 | 0.00039 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7440-48-4 | |
| Lithium | 0.0014J | mg/L | 0.030 | 0.00073 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7439-93-2 | |
| Molybdenum | 0.10 | mg/L | 0.010 | 0.00074 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 07/18/23 13:46 | 07/19/23 18:25 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 07/27/23 12:00 | 07/27/23 15:09 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 557 | mg/L | 25.0 | 25.0 | 1 | | 07/18/23 15:24 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 185 | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 16:41 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 16:41 | | |
| Alkalinity, Total as CaCO3 | 185 | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 16:41 | | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

Sample: HAM-PT-10 **Lab ID: 92677694003** Collected: 07/13/23 14:15 Received: 07/17/23 12:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|-------------|-------|-----------------|-------|----|----------|----------------|------------|------|
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 07/20/23 03:41 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 67.2 | mg/L | 1.0 | 0.60 | 1 | | 07/19/23 04:10 | 16887-00-6 | |
| Fluoride | 0.33 | mg/L | 0.10 | 0.050 | 1 | | 07/19/23 04:10 | 16984-48-8 | |
| Sulfate | 145 | mg/L | 3.0 | 1.5 | 3 | | 07/19/23 10:07 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

| Sample: HAM-PT-07 | | Lab ID: 92677694004 | | Collected: 07/13/23 16:22 | | Received: 07/17/23 12:30 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 07/17/23 17:16 | | |
| pH | 6.76 | Std. Units | | | 1 | | 07/17/23 17:16 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Manganese | 8.2 | mg/L | 0.040 | 0.011 | 1 | 07/20/23 09:50 | 07/20/23 16:19 | 7439-96-5 | |
| Potassium | 6.0 | mg/L | 0.50 | 0.15 | 1 | 07/20/23 09:50 | 07/20/23 16:19 | 7440-09-7 | |
| Sodium | 6.1 | mg/L | 1.0 | 0.58 | 1 | 07/20/23 09:50 | 07/20/23 16:19 | 7440-23-5 | |
| Calcium | 168 | mg/L | 1.0 | 0.12 | 1 | 07/20/23 09:50 | 07/20/23 16:19 | 7440-70-2 | |
| Magnesium | 18.5 | mg/L | 0.050 | 0.012 | 1 | 07/20/23 09:50 | 07/20/23 16:19 | 7439-95-4 | |
| Iron | 23.8 | mg/L | 0.040 | 0.025 | 1 | 07/20/23 09:50 | 07/25/23 16:17 | 7439-89-6 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7440-36-0 | |
| Arsenic | 0.34 | mg/L | 0.010 | 0.0037 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7440-38-2 | |
| Barium | 0.056 | mg/L | 0.0050 | 0.00067 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7440-39-3 | |
| Beryllium | 0.00012J | mg/L | 0.00050 | 0.000054 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7440-41-7 | |
| Boron | 1.0 | mg/L | 0.20 | 0.043 | 5 | 07/18/23 13:46 | 07/21/23 17:07 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7440-47-3 | |
| Cobalt | 0.13 | mg/L | 0.0050 | 0.00039 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7440-48-4 | |
| Lithium | 0.060 | mg/L | 0.030 | 0.00073 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7439-93-2 | |
| Molybdenum | 0.017 | mg/L | 0.010 | 0.00074 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7782-49-2 | |
| Thallium | 0.00024J | mg/L | 0.0010 | 0.00018 | 1 | 07/18/23 13:46 | 07/19/23 18:30 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 07/27/23 12:00 | 07/27/23 15:12 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 808 | mg/L | 25.0 | 25.0 | 1 | | 07/18/23 15:24 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 102 | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 16:53 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 16:53 | | |
| Alkalinity, Total as CaCO3 | 102 | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 16:53 | | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

| Sample: HAM-PT-07 | | Lab ID: 92677694004 | | Collected: 07/13/23 16:22 | | Received: 07/17/23 12:30 | | Matrix: Water | |
|--------------------------------|-------------|---|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 07/20/23 03:42 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 15.7 | mg/L | 1.0 | 0.60 | 1 | | 07/19/23 04:24 | 16887-00-6 | |
| Fluoride | 0.36 | mg/L | 0.10 | 0.050 | 1 | | 07/19/23 04:24 | 16984-48-8 | |
| Sulfate | 411 | mg/L | 9.0 | 4.5 | 9 | | 07/19/23 10:21 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

Sample: HAM-PT-08 Lab ID: 92677694005 Collected: 07/13/23 17:51 Received: 07/17/23 12:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|----------|------------|--------------|----------|----|----------------|----------------|-----------|------|
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 07/17/23 17:17 | | |
| pH | 6.66 | Std. Units | | | 1 | | 07/17/23 17:17 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Manganese | 8.7 | mg/L | 0.040 | 0.011 | 1 | 07/20/23 09:50 | 07/20/23 16:24 | 7439-96-5 | |
| Potassium | 6.0 | mg/L | 0.50 | 0.15 | 1 | 07/20/23 09:50 | 07/20/23 16:24 | 7440-09-7 | |
| Sodium | 6.9 | mg/L | 1.0 | 0.58 | 1 | 07/20/23 09:50 | 07/20/23 16:24 | 7440-23-5 | |
| Calcium | 161 | mg/L | 1.0 | 0.12 | 1 | 07/20/23 09:50 | 07/20/23 16:24 | 7440-70-2 | |
| Magnesium | 18.9 | mg/L | 0.050 | 0.012 | 1 | 07/20/23 09:50 | 07/20/23 16:24 | 7439-95-4 | |
| Iron | 24.2 | mg/L | 0.040 | 0.025 | 1 | 07/20/23 09:50 | 07/25/23 16:38 | 7439-89-6 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7440-36-0 | |
| Arsenic | 0.33 | mg/L | 0.010 | 0.0037 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7440-38-2 | |
| Barium | 0.051 | mg/L | 0.0050 | 0.00067 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7440-39-3 | |
| Beryllium | 0.00011J | mg/L | 0.00050 | 0.000054 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7440-41-7 | |
| Boron | 1.0 | mg/L | 0.20 | 0.043 | 5 | 07/18/23 13:46 | 07/21/23 17:13 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7440-47-3 | |
| Cobalt | 0.031 | mg/L | 0.0050 | 0.00039 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7440-48-4 | |
| Lithium | 0.065 | mg/L | 0.030 | 0.00073 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7439-93-2 | |
| Molybdenum | 0.0079J | mg/L | 0.010 | 0.00074 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 07/18/23 13:46 | 07/19/23 18:36 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 07/27/23 12:00 | 07/27/23 15:14 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 734 | mg/L | 25.0 | 25.0 | 1 | | 07/18/23 15:25 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 107 | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:03 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:03 | | |
| Alkalinity, Total as CaCO3 | 107 | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:03 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

| Sample: HAM-PT-08 | | Lab ID: 92677694005 | | Collected: 07/13/23 17:51 | | Received: 07/17/23 12:30 | | Matrix: Water | |
|--------------------------------|---------------|---|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | 0.036J | mg/L | 0.10 | 0.022 | 1 | | 07/20/23 03:42 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 17.0 | mg/L | 1.0 | 0.60 | 1 | | 07/19/23 04:38 | 16887-00-6 | |
| Fluoride | 0.36 | mg/L | 0.10 | 0.050 | 1 | | 07/19/23 04:38 | 16984-48-8 | |
| Sulfate | 417 | mg/L | 8.0 | 4.0 | 8 | | 07/19/23 12:00 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

Sample: HAM-AP1-FD-01 Lab ID: 92677694006 Collected: 07/13/23 00:00 Received: 07/17/23 12:30 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|----------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 24.6 | mg/L | 0.040 | 0.025 | 1 | 07/20/23 09:50 | 07/25/23 16:48 | 7439-89-6 | |
| Manganese | 8.6 | mg/L | 0.040 | 0.011 | 1 | 07/20/23 09:50 | 07/20/23 16:29 | 7439-96-5 | |
| Potassium | 6.4 | mg/L | 0.50 | 0.15 | 1 | 07/20/23 09:50 | 07/20/23 16:29 | 7440-09-7 | |
| Sodium | 6.6 | mg/L | 1.0 | 0.58 | 1 | 07/20/23 09:50 | 07/20/23 16:29 | 7440-23-5 | |
| Calcium | 180 | mg/L | 1.0 | 0.12 | 1 | 07/20/23 09:50 | 07/20/23 16:29 | 7440-70-2 | |
| Magnesium | 19.6 | mg/L | 0.050 | 0.012 | 1 | 07/20/23 09:50 | 07/20/23 16:29 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7440-36-0 | |
| Arsenic | 0.34 | mg/L | 0.010 | 0.0037 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7440-38-2 | |
| Barium | 0.057 | mg/L | 0.0050 | 0.00067 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7440-39-3 | |
| Beryllium | 0.00011J | mg/L | 0.00050 | 0.000054 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7440-41-7 | |
| Boron | 0.99 | mg/L | 0.20 | 0.043 | 5 | 07/18/23 13:46 | 07/21/23 17:19 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7440-47-3 | |
| Cobalt | 0.14 | mg/L | 0.0050 | 0.00039 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7440-48-4 | |
| Lithium | 0.060 | mg/L | 0.030 | 0.00073 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7439-93-2 | |
| Molybdenum | 0.018 | mg/L | 0.010 | 0.00074 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7782-49-2 | |
| Thallium | 0.00025J | mg/L | 0.0010 | 0.00018 | 1 | 07/18/23 13:46 | 07/19/23 18:54 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 07/27/23 12:00 | 07/27/23 15:17 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 804 | mg/L | 25.0 | 25.0 | 1 | | 07/18/23 15:25 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 102 | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:12 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:12 | | |
| Alkalinity, Total as CaCO3 | 102 | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:12 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 07/20/23 03:42 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 15.6 | mg/L | 1.0 | 0.60 | 1 | | 07/19/23 04:53 | 16887-00-6 | |
| Fluoride | 0.31 | mg/L | 0.10 | 0.050 | 1 | | 07/19/23 04:53 | 16984-48-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
 Pace Project No.: 92677694

| Sample: HAM-AP1-FD-01 | | Lab ID: 92677694006 | | Collected: 07/13/23 00:00 | Received: 07/17/23 12:30 | Matrix: Water | | | |
|--------------------------------|------------|---|--------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Sulfate | 428 | mg/L | 9.0 | 4.5 | 9 | | 07/19/23 12:56 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

Sample: HAM-AP1-FB-01 Lab ID: 92677694007 Collected: 07/17/23 08:40 Received: 07/17/23 12:30 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 07/20/23 09:50 | 07/20/23 16:34 | 7439-96-5 | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 07/20/23 09:50 | 07/20/23 16:34 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 07/20/23 09:50 | 07/20/23 16:34 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 07/20/23 09:50 | 07/20/23 16:34 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 07/20/23 09:50 | 07/20/23 16:34 | 7439-95-4 | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 07/20/23 09:50 | 07/25/23 16:53 | 7439-89-6 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00067 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.0086 | 1 | 07/18/23 13:46 | 07/21/23 17:37 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7440-48-4 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 07/18/23 13:46 | 07/19/23 19:00 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 07/27/23 12:00 | 07/27/23 15:19 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 07/18/23 15:30 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:22 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:22 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:22 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 07/20/23 04:00 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 07/19/23 05:07 | 16887-00-6 | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 07/19/23 05:07 | 16984-48-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

Sample: HAM-AP1-FB-01 Lab ID: 92677694007 Collected: 07/17/23 08:40 Received: 07/17/23 12:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----------------|------|----|----------|----------------|------------|------|
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 07/19/23 05:07 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

Sample: HAM-HGWC-13 Lab ID: 92677694008 Collected: 07/17/23 11:47 Received: 07/17/23 12:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|-----------------|------------|--------------|----------|----|----------------|----------------|-----------|------|
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 07/17/23 17:17 | | |
| pH | 6.67 | Std. Units | | | 1 | | 07/17/23 17:17 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 7.2 | mg/L | 0.040 | 0.025 | 1 | 07/20/23 09:50 | 07/20/23 16:39 | 7439-89-6 | |
| Manganese | 8.9 | mg/L | 0.040 | 0.011 | 1 | 07/20/23 09:50 | 07/20/23 16:39 | 7439-96-5 | |
| Potassium | 6.0 | mg/L | 0.50 | 0.15 | 1 | 07/20/23 09:50 | 07/20/23 16:39 | 7440-09-7 | |
| Sodium | 6.8 | mg/L | 1.0 | 0.58 | 1 | 07/20/23 09:50 | 07/20/23 16:39 | 7440-23-5 | |
| Calcium | 179 | mg/L | 1.0 | 0.12 | 1 | 07/20/23 09:50 | 07/20/23 16:39 | 7440-70-2 | |
| Magnesium | 19.5 | mg/L | 0.050 | 0.012 | 1 | 07/20/23 09:50 | 07/20/23 16:39 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7440-36-0 | |
| Arsenic | 0.63 | mg/L | 0.010 | 0.0037 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7440-38-2 | |
| Barium | 0.056 | mg/L | 0.0050 | 0.00067 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7440-39-3 | |
| Beryllium | 0.00012J | mg/L | 0.00050 | 0.000054 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7440-41-7 | |
| Boron | 1.0 | mg/L | 0.20 | 0.043 | 5 | 07/18/23 13:46 | 07/21/23 17:43 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7440-47-3 | |
| Cobalt | 0.018 | mg/L | 0.0050 | 0.00039 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7440-48-4 | |
| Lithium | 0.048 | mg/L | 0.030 | 0.00073 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7439-93-2 | |
| Molybdenum | 0.017 | mg/L | 0.010 | 0.00074 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7782-49-2 | |
| Thallium | 0.00030J | mg/L | 0.0010 | 0.00018 | 1 | 07/18/23 13:46 | 07/19/23 19:06 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 07/27/23 12:00 | 07/27/23 15:22 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 817 | mg/L | 25.0 | 25.0 | 1 | | 07/18/23 15:31 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 140 | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:26 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:26 | | |
| Alkalinity, Total as CaCO3 | 140 | mg/L | 5.0 | 5.0 | 1 | | 07/20/23 17:26 | | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92677694

Sample: HAM-HGWC-13 **Lab ID: 92677694008** Collected: 07/17/23 11:47 Received: 07/17/23 12:30 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|-------------|-------|--------------|-------|----|----------|----------------|------------|------|
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 07/20/23 04:00 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 17.8 | mg/L | 1.0 | 0.60 | 1 | | 07/19/23 05:50 | 16887-00-6 | |
| Fluoride | 0.32 | mg/L | 0.10 | 0.050 | 1 | | 07/19/23 05:50 | 16984-48-8 | |
| Sulfate | 393 | mg/L | 8.0 | 4.0 | 8 | | 07/19/23 13:10 | 14808-79-8 | M1 |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

QC Batch: 787863 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

METHOD BLANK: 4084625 Matrix: Water
 Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 07/20/23 15:30 | |
| Iron | mg/L | ND | 0.040 | 0.025 | 07/25/23 15:43 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 07/20/23 15:30 | |
| Manganese | mg/L | ND | 0.040 | 0.011 | 07/20/23 15:30 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 07/20/23 15:30 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 07/20/23 15:30 | |

LABORATORY CONTROL SAMPLE: 4084626

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 1 | 0.92J | 92 | 80-120 | |
| Iron | mg/L | 1 | 0.99 | 99 | 80-120 | |
| Magnesium | mg/L | 1 | 0.93 | 93 | 80-120 | |
| Manganese | mg/L | 1 | 0.94 | 94 | 80-120 | |
| Potassium | mg/L | 1 | 0.88 | 88 | 80-120 | |
| Sodium | mg/L | 1 | 0.84J | 84 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4085060 4085061

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92677694001 Result | Spike Conc. | Spike Conc. | Conc. | | | | | | | | |
| Calcium | mg/L | 107 | 1 | 1 | 109 | 104 | 196 | -279 | 75-125 | 4 | 20 | M1 | |
| Iron | mg/L | 0.27 | 1 | 1 | 1.3 | 1.3 | 99 | 105 | 75-125 | 5 | 20 | | |
| Magnesium | mg/L | 14.9 | 1 | 1 | 16.2 | 15.6 | 128 | 74 | 75-125 | 3 | 20 | M1 | |
| Manganese | mg/L | 0.28 | 1 | 1 | 1.2 | 1.3 | 96 | 100 | 75-125 | 3 | 20 | | |
| Potassium | mg/L | 6.9 | 1 | 1 | 8.1 | 7.8 | 118 | 90 | 75-125 | 3 | 20 | | |
| Sodium | mg/L | 8.8 | 1 | 1 | 9.9 | 9.5 | 111 | 73 | 75-125 | 4 | 20 | M1 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

| | | | |
|--|-----------|-----------------------|--|
| QC Batch: | 787489 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6020 MET |
| Associated Lab Samples: | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |
| 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008 | | | |

| | | | |
|--|---------|---------|-------|
| METHOD BLANK: | 4082463 | Matrix: | Water |
| Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008 | | | |

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.0012 | 07/19/23 17:43 | |
| Arsenic | mg/L | ND | 0.010 | 0.0037 | 07/19/23 17:43 | |
| Barium | mg/L | ND | 0.0050 | 0.00067 | 07/19/23 17:43 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000054 | 07/19/23 17:43 | |
| Boron | mg/L | ND | 0.040 | 0.0086 | 07/21/23 16:25 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00011 | 07/19/23 17:43 | |
| Chromium | mg/L | ND | 0.0050 | 0.0011 | 07/19/23 17:43 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00039 | 07/19/23 17:43 | |
| Lithium | mg/L | ND | 0.030 | 0.00073 | 07/19/23 17:43 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00074 | 07/19/23 17:43 | |
| Selenium | mg/L | ND | 0.0050 | 0.0014 | 07/19/23 17:43 | |
| Thallium | mg/L | ND | 0.0010 | 0.00018 | 07/19/23 17:43 | |

LABORATORY CONTROL SAMPLE: 4082464

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.11 | 107 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Barium | mg/L | 0.1 | 0.096 | 96 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Boron | mg/L | 1 | 1.1 | 110 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.097 | 97 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4082465 4082466

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------------|--------|--------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | Spike Conc. | Spike Conc. | Result | Result | | | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 109 | 110 | 75-125 | 1 | 20 | | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.11 | 104 | 106 | 75-125 | 2 | 20 | | |
| Barium | mg/L | 0.047 | 0.1 | 0.1 | 0.16 | 0.16 | 114 | 113 | 75-125 | 1 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

| Parameter | Units | 4082465 | | 4082466 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 92677694001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Beryllium | mg/L | 0.000073J | 0.1 | 0.1 | 0.095 | 0.096 | 95 | 96 | 75-125 | 1 | 20 | | |
| Boron | mg/L | 2.0 | 1 | 1 | 3.1 | 2.9 | 108 | 94 | 75-125 | 5 | 20 | | |
| Cadmium | mg/L | 0.00031J | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 104 | 75-125 | 1 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.099 | 101 | 99 | 75-125 | 2 | 20 | | |
| Cobalt | mg/L | 0.0015J | 0.1 | 0.1 | 0.10 | 0.099 | 99 | 97 | 75-125 | 1 | 20 | | |
| Lithium | mg/L | 0.0015J | 0.1 | 0.1 | 0.099 | 0.099 | 97 | 98 | 75-125 | 0 | 20 | | |
| Molybdenum | mg/L | 0.30 | 0.1 | 0.1 | 0.42 | 0.42 | 121 | 123 | 75-125 | 1 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 106 | 106 | 75-125 | 0 | 20 | | |
| Thallium | mg/L | 0.00026J | 0.1 | 0.1 | 0.097 | 0.096 | 97 | 96 | 75-125 | 1 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

QC Batch: 789561

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

METHOD BLANK: 4092350

Matrix: Water

Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00020 | 0.00013 | 07/27/23 14:41 | |

LABORATORY CONTROL SAMPLE: 4092351

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0023 | 92 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4092352 4092353

| Parameter | Units | 92677694002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Mercury | mg/L | ND | 0.0025 | 0.0025 | 0.0021 | 0.0021 | 83 | 85 | 75-125 | 2 | 20 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

QC Batch: 787441 Analysis Method: SM 2540C-2015
 QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

METHOD BLANK: 4082157 Matrix: Water
 Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 07/18/23 15:23 | |

LABORATORY CONTROL SAMPLE: 4082158

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 409 | 102 | 80-120 | |

SAMPLE DUPLICATE: 4082159

| Parameter | Units | 92677694001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 513 | 511 | 0 | 10 | |

SAMPLE DUPLICATE: 4082160

| Parameter | Units | 92677696005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 1460 | 1570 | 8 | 10 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

QC Batch: 787723

Analysis Method: SM 2320B-2011

QC Batch Method: SM 2320B-2011

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92677694001, 92677694002

METHOD BLANK: 4083535

Matrix: Water

Associated Lab Samples: 92677694001, 92677694002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 07/19/23 16:09 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 07/19/23 16:09 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 07/19/23 16:09 | |

LABORATORY CONTROL SAMPLE: 4083536

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.8 | 106 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4083537

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 49.5 | 99 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4083538 4083539

| Parameter | Units | 4083538 | | 4083539 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|----------------------------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|----|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 92677420019 | 48.7 | 50 | 50 | 102 | 103 | 106 | 108 | 80-120 | 1 | 25 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4083540 4083541

| Parameter | Units | 4083540 | | 4083541 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|----------------------------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|-------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 92677318002 | 330 | 50 | 50 | 390 | 394 | 120 | 129 | 80-120 | 1 | 25 M1 |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

QC Batch: 788121 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

METHOD BLANK: 4085797 Matrix: Water
 Associated Lab Samples: 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 07/20/23 16:09 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 07/20/23 16:09 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 07/20/23 16:09 | |

LABORATORY CONTROL SAMPLE: 4085798

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 51.4 | 103 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4085799

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 50.7 | 101 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4085800 4085801

| Parameter | Units | 92677753005 | | 4085801 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------|-----------------|-----------|-----------------|----------|-----------|--------------|-----|---------|------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 121 | 50 | 180 | 50 | 118 | 118 | 80-120 | 0 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4085802 4085803

| Parameter | Units | 92677753006 | | 4085803 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------|-----------------|-----------|-----------------|----------|-----------|--------------|-----|---------|------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 76.8 | 50 | 129 | 50 | 103 | 108 | 80-120 | 2 | 25 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

QC Batch: 787902 Analysis Method: SM 4500-S2D-2011
 QC Batch Method: SM 4500-S2D-2011 Analysis Description: 4500S2D Sulfide Water
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006

METHOD BLANK: 4084741 Matrix: Water
 Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide | mg/L | ND | 0.10 | 0.022 | 07/20/23 03:38 | |

LABORATORY CONTROL SAMPLE: 4084742

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide | mg/L | 0.5 | 0.49 | 98 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4084743 4084744

| Parameter | Units | 92677694001 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------------|-------------|-------|--------|--------|-------|--------|--------------|-----|---------|------|
| | | Result | Spike Conc. | Spike Conc. | Conc. | Result | Result | % Rec | % Rec | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.47 | 0.47 | 93 | 93 | 80-120 | 0 | 10 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4084745 4084746

| Parameter | Units | 92677696005 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------------|-------------|-------|--------|--------|-------|--------|--------------|-----|---------|------|
| | | Result | Spike Conc. | Spike Conc. | Conc. | Result | Result | % Rec | % Rec | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.48 | 0.46 | 94 | 90 | 80-120 | 5 | 10 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

| | |
|-----------------------------------|--|
| QC Batch: 787903 | Analysis Method: SM 4500-S2D-2011 |
| QC Batch Method: SM 4500-S2D-2011 | Analysis Description: 4500S2D Sulfide Water |
| | Laboratory: Pace Analytical Services - Asheville |

Associated Lab Samples: 92677694007, 92677694008

METHOD BLANK: 4084747 Matrix: Water

Associated Lab Samples: 92677694007, 92677694008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide | mg/L | ND | 0.10 | 0.022 | 07/20/23 03:57 | |

LABORATORY CONTROL SAMPLE: 4084748

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide | mg/L | 0.5 | 0.49 | 97 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4084749 4084750

| Parameter | Units | 92678161006 | | 4084749 | | 4084750 | | % Rec Limits | RPD | Max RPD | Qual | |
|-----------|-------|-------------|-----------------|-----------|-----------------|----------|-----------|--------------|--------|---------|------|--|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS % Rec | MSD % Rec | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.53 | 0.54 | 105 | 108 | 80-120 | 3 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4084751 4084752

| Parameter | Units | 92677696012 | | 4084751 | | 4084752 | | % Rec Limits | RPD | Max RPD | Qual | |
|-----------|-------|-------------|-----------------|-----------|-----------------|----------|-----------|--------------|--------|---------|------|--|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS % Rec | MSD % Rec | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.43 | 0.47 | 84 | 93 | 80-120 | 10 | 10 | |

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

| | | | |
|------------------|------------------------|-----------------------|--------------------------------------|
| QC Batch: | 787373 | Analysis Method: | EPA 300.0 Rev 2.1 1993 |
| QC Batch Method: | EPA 300.0 Rev 2.1 1993 | Analysis Description: | 300.0 IC Anions |
| | | Laboratory: | Pace Analytical Services - Asheville |

Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007

METHOD BLANK: 4081842 Matrix: Water
 Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 07/18/23 12:46 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 07/18/23 12:46 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 07/18/23 12:46 | |

LABORATORY CONTROL SAMPLE: 4081843

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 50.3 | 101 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.5 | 101 | 90-110 | |
| Sulfate | mg/L | 50 | 49.5 | 99 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4081844 4081845

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92677589002 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Chloride | mg/L | 2.9 | 50 | 50 | 54.1 | 54.7 | 102 | 104 | 90-110 | 1 | 10 | | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.7 | 2.7 | 107 | 107 | 90-110 | 0 | 10 | | |
| Sulfate | mg/L | 25.2 | 50 | 50 | 75.9 | 76.5 | 101 | 103 | 90-110 | 1 | 10 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4081846 4081847

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92677589020 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Chloride | mg/L | 21.6 | 50 | 50 | 60.3 | 60.3 | 78 | 77 | 90-110 | 0 | 10 | M1 | |
| Fluoride | mg/L | 0.37J | 2.5 | 2.5 | 2.8J | 3.2J | 96 | 113 | 90-110 | | 10 | M1 | |
| Sulfate | mg/L | 3080 | 50 | 50 | 3000 | 2940 | -145 | -278 | 90-110 | 2 | 10 | M1 | |

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92677694

| | |
|---|--|
| QC Batch: 787377 | Analysis Method: EPA 300.0 Rev 2.1 1993 |
| QC Batch Method: EPA 300.0 Rev 2.1 1993 | Analysis Description: 300.0 IC Anions |
| | Laboratory: Pace Analytical Services - Asheville |

Associated Lab Samples: 92677694008

METHOD BLANK: 4081859 Matrix: Water

Associated Lab Samples: 92677694008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 07/19/23 05:21 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 07/19/23 05:21 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 07/19/23 05:21 | |

LABORATORY CONTROL SAMPLE: 4081860

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 50.4 | 101 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.4 | 98 | 90-110 | |
| Sulfate | mg/L | 50 | 49.8 | 100 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4081861 4081862

| Parameter | Units | 92677694008 | | 4081861 | | 4081862 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|------------|----------------|-----------------|-----------|------------|-------|-------|--------------|-----|---------|------|
| | | MS Result | MSD Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Chloride | mg/L | 17.8 | 17.8 | 50 | 50 | 69.7 | 70.1 | 104 | 105 | 90-110 | 1 | 10 | |
| Fluoride | mg/L | 0.32 | 0.32 | 2.5 | 2.5 | 2.8 | 2.8 | 98 | 99 | 90-110 | 1 | 10 | |
| Sulfate | mg/L | 393 | 393 | 50 | 50 | 422 | 418 | 58 | 49 | 90-110 | 1 | 10 M1 | |

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Hammond AP-1

Pace Project No.: 92677694

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1

Pace Project No.: 92677694

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|-----------------|----------|-------------------|------------------|
| 92677694001 | HAM-HGWC-8 | | | | |
| 92677694002 | HAM-PT-09 | | | | |
| 92677694003 | HAM-PT-10 | | | | |
| 92677694004 | HAM-PT-07 | | | | |
| 92677694005 | HAM-PT-08 | | | | |
| 92677694008 | HAM-HGWC-13 | | | | |
| 92677694001 | HAM-HGWC-8 | EPA 3010A | 787863 | EPA 6010D | 788067 |
| 92677694002 | HAM-PT-09 | EPA 3010A | 787863 | EPA 6010D | 788067 |
| 92677694003 | HAM-PT-10 | EPA 3010A | 787863 | EPA 6010D | 788067 |
| 92677694004 | HAM-PT-07 | EPA 3010A | 787863 | EPA 6010D | 788067 |
| 92677694005 | HAM-PT-08 | EPA 3010A | 787863 | EPA 6010D | 788067 |
| 92677694006 | HAM-AP1-FD-01 | EPA 3010A | 787863 | EPA 6010D | 788067 |
| 92677694007 | HAM-AP1-FB-01 | EPA 3010A | 787863 | EPA 6010D | 788067 |
| 92677694008 | HAM-HGWC-13 | EPA 3010A | 787863 | EPA 6010D | 788067 |
| 92677694001 | HAM-HGWC-8 | EPA 3005A | 787489 | EPA 6020B | 787561 |
| 92677694002 | HAM-PT-09 | EPA 3005A | 787489 | EPA 6020B | 787561 |
| 92677694003 | HAM-PT-10 | EPA 3005A | 787489 | EPA 6020B | 787561 |
| 92677694004 | HAM-PT-07 | EPA 3005A | 787489 | EPA 6020B | 787561 |
| 92677694005 | HAM-PT-08 | EPA 3005A | 787489 | EPA 6020B | 787561 |
| 92677694006 | HAM-AP1-FD-01 | EPA 3005A | 787489 | EPA 6020B | 787561 |
| 92677694007 | HAM-AP1-FB-01 | EPA 3005A | 787489 | EPA 6020B | 787561 |
| 92677694008 | HAM-HGWC-13 | EPA 3005A | 787489 | EPA 6020B | 787561 |
| 92677694001 | HAM-HGWC-8 | EPA 7470A | 789561 | EPA 7470A | 789666 |
| 92677694002 | HAM-PT-09 | EPA 7470A | 789561 | EPA 7470A | 789666 |
| 92677694003 | HAM-PT-10 | EPA 7470A | 789561 | EPA 7470A | 789666 |
| 92677694004 | HAM-PT-07 | EPA 7470A | 789561 | EPA 7470A | 789666 |
| 92677694005 | HAM-PT-08 | EPA 7470A | 789561 | EPA 7470A | 789666 |
| 92677694006 | HAM-AP1-FD-01 | EPA 7470A | 789561 | EPA 7470A | 789666 |
| 92677694007 | HAM-AP1-FB-01 | EPA 7470A | 789561 | EPA 7470A | 789666 |
| 92677694008 | HAM-HGWC-13 | EPA 7470A | 789561 | EPA 7470A | 789666 |
| 92677694001 | HAM-HGWC-8 | SM 2540C-2015 | 787441 | | |
| 92677694002 | HAM-PT-09 | SM 2540C-2015 | 787441 | | |
| 92677694003 | HAM-PT-10 | SM 2540C-2015 | 787441 | | |
| 92677694004 | HAM-PT-07 | SM 2540C-2015 | 787441 | | |
| 92677694005 | HAM-PT-08 | SM 2540C-2015 | 787441 | | |
| 92677694006 | HAM-AP1-FD-01 | SM 2540C-2015 | 787441 | | |
| 92677694007 | HAM-AP1-FB-01 | SM 2540C-2015 | 787441 | | |
| 92677694008 | HAM-HGWC-13 | SM 2540C-2015 | 787441 | | |
| 92677694001 | HAM-HGWC-8 | SM 2320B-2011 | 787723 | | |
| 92677694002 | HAM-PT-09 | SM 2320B-2011 | 787723 | | |
| 92677694003 | HAM-PT-10 | SM 2320B-2011 | 788121 | | |
| 92677694004 | HAM-PT-07 | SM 2320B-2011 | 788121 | | |
| 92677694005 | HAM-PT-08 | SM 2320B-2011 | 788121 | | |
| 92677694006 | HAM-AP1-FD-01 | SM 2320B-2011 | 788121 | | |
| 92677694007 | HAM-AP1-FB-01 | SM 2320B-2011 | 788121 | | |
| 92677694008 | HAM-HGWC-13 | SM 2320B-2011 | 788121 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1

Pace Project No.: 92677694

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|------------------------|----------|-------------------|------------------|
| 92677694001 | HAM-HGWC-8 | SM 4500-S2D-2011 | 787902 | | |
| 92677694002 | HAM-PT-09 | SM 4500-S2D-2011 | 787902 | | |
| 92677694003 | HAM-PT-10 | SM 4500-S2D-2011 | 787902 | | |
| 92677694004 | HAM-PT-07 | SM 4500-S2D-2011 | 787902 | | |
| 92677694005 | HAM-PT-08 | SM 4500-S2D-2011 | 787902 | | |
| 92677694006 | HAM-AP1-FD-01 | SM 4500-S2D-2011 | 787902 | | |
| 92677694007 | HAM-AP1-FB-01 | SM 4500-S2D-2011 | 787903 | | |
| 92677694008 | HAM-HGWC-13 | SM 4500-S2D-2011 | 787903 | | |
| 92677694001 | HAM-HGWC-8 | EPA 300.0 Rev 2.1 1993 | 787373 | | |
| 92677694002 | HAM-PT-09 | EPA 300.0 Rev 2.1 1993 | 787373 | | |
| 92677694003 | HAM-PT-10 | EPA 300.0 Rev 2.1 1993 | 787373 | | |
| 92677694004 | HAM-PT-07 | EPA 300.0 Rev 2.1 1993 | 787373 | | |
| 92677694005 | HAM-PT-08 | EPA 300.0 Rev 2.1 1993 | 787373 | | |
| 92677694006 | HAM-AP1-FD-01 | EPA 300.0 Rev 2.1 1993 | 787373 | | |
| 92677694007 | HAM-AP1-FB-01 | EPA 300.0 Rev 2.1 1993 | 787373 | | |
| 92677694008 | HAM-HGWC-13 | EPA 300.0 Rev 2.1 1993 | 787377 | | |

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GHPower

Project #:

WO#: 92677694



Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 7-18-23A

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 6.5 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 6.5

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | Comments/Discrepancy: |
|---|--|-----------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: | <u>WG</u> | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92677694

PM: BV

Due Date: 07/31/23

CLIENT: 92- GP-HAM

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | V5GU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|--|
| 1 | | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document

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

| | | | | | |
|---|-----------------------------|---|-----------------------------------|--|---|
| Section A Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
| Company: GA Power | Report To: SCS Contacts | Company Name: Southern Co. | Address: | City/State: | REGULATORY AGENCY |
| Class: Atlanta, GA | Copy To: Geosyntec Contacts | Task Code: HAM-CCR-CA-20230713 | Price Quote Reference: | Price Project Manager: | <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER |
| Site To: SCS Contacts | Purchase Order No.: | Project Name: Hammond AP-1 | Price Profile #: | 10839-10463-20 | <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> CCR |
| No.: | Fac: | Project Number: | Requested Analysis Filtered (Y/N) | Site Location STATE: GA | |
| Requested Due Date/TAT: 10 Day | | | | | |

| Section D Required Client Information | Valid Matrix Codes MATRIX CODE | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | | Analysis Test | | | Residual Chlorine (Y/N) | Sample Conditions | |
|--|-----------------------------------|-----------|-----------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|----------|---------------|-----------------------------|----------------------|-------------------------|-------------------|------------------|
| | | COMPOSITE | COMPOSITE | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₃ | Methanol | Other | Full App. III and IV metals | Major Ions (10839-2) | | | Boron and Cobalt |
| HAM-HGNC-8 | WG G | 7/15/23 | 1035 | 21 | 5 | X | X | X | X | X | X | X | X | X | X | X | X | PH = 6.05 |
| HAM-PT-09 | WG G | 7/15/23 | 1247 | 14 | 5 | X | X | X | X | X | X | X | X | X | X | X | X | PH = 6.57 |
| HAM-PT-10 | WG G | 7/15/23 | 1415 | 22 | 5 | X | X | X | X | X | X | X | X | X | X | X | X | PH = 7.01 |
| HAM-PT-D7 | WG G | 7/15/23 | 1022 | 27 | 5 | X | X | X | X | X | X | X | X | X | X | X | X | PH = 6.710 |
| HAM-PT-08 | WG G | 7/15/23 | 11751 | 24 | 5 | X | X | X | X | X | X | X | X | X | X | X | X | PH = 6.010 |
| HAM-AP1-ED-01 | WG G | 7/15/23 | 0000 | - | 5 | X | X | X | X | X | X | X | X | X | X | X | X | PH = 6.07 |
| HAM-AP1-FB-01 | WG G | 7/17/23 | 0840 | - | 5 | X | X | X | X | X | X | X | X | X | X | X | X | PH = 6.010 |
| HAM-AP HGNC-13 | WG G | 7/17/23 | 1147 | 23 | 5 | X | X | X | X | X | X | X | X | X | X | X | X | PH = 6.017 |

| | | | | | | | | | | | |
|--------------------------|--|-------------------------------|--|---------|------|---------------------------|--|---------|------|-------------------|--|
| ADDITIONAL COMMENTS | | RELINQUISHED BY / AFFILIATION | | DATE | TIME | ACCEPTED BY / AFFILIATION | | DATE | TIME | SAMPLE CONDITIONS | |
| Code HAM-CCR-CA-20230713 | | Alana Wray Geosyntec | | 7/17/23 | 1230 | Bon Williams / Pace | | 7/17/23 | 1230 | | |
| | | Bon Williams / Pace | | 7/18/23 | 1425 | Bon Williams / Pace | | 7/19/23 | 1425 | | |

| | | | |
|-----------------------------------|--|------------------------|----------------------------|
| SAMPLER NAME AND SIGNATURE | | DATE Signed (MM/DD/YY) | Geosyntec Consultants, Inc |
| PRINT Name of SAMPLER: Alana Wray | | 7/17/23 | |
| SIGNATURE of SAMPLER: Alana Wray | | 7/17/23 | |

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07.15-Feb-2007

August 2023



August 25, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on August 11, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Angela Baioni for
Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------|--------|----------------|----------------|
| 92682397001 | HAM-PT-07 | Water | 08/09/23 17:59 | 08/11/23 13:12 |
| 92682397002 | HAM-PT-08 | Water | 08/09/23 10:50 | 08/11/23 13:12 |
| 92682397003 | HAM-PT-09 | Water | 08/09/23 14:42 | 08/11/23 13:12 |
| 92682397004 | HAM-PT-10 | Water | 08/09/23 13:05 | 08/11/23 13:12 |
| 92682397005 | HAM-MW-53 | Water | 08/09/23 16:40 | 08/11/23 13:12 |
| 92682397006 | HAM-MW-54 | Water | 08/09/23 16:51 | 08/11/23 13:12 |
| 92682397007 | HAM-AP1-FD-06 | Water | 08/09/23 00:00 | 08/11/23 13:12 |
| 92682397008 | HAM-AP1-FB-06 | Water | 08/09/23 16:50 | 08/11/23 13:12 |

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------|------------------------|----------|-------------------|
| 92682397001 | HAM-PT-07 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92682397002 | HAM-PT-08 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92682397003 | HAM-PT-09 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92682397004 | HAM-PT-10 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92682397005 | HAM-MW-53 | EPA 6020B | CW1 | 2 |
| 92682397006 | HAM-MW-54 | EPA 6020B | CW1 | 2 |
| 92682397007 | HAM-AP1-FD-06 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------|------------------------|----------|-------------------|
| 92682397008 | HAM-AP1-FB-06 | EPA 6010D | MS | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|-----------|-------|--------------|----------------|------------|
| 92682397001 | HAM-PT-07 | | | | | |
| EPA 6010D | Iron | 27.1 | mg/L | 0.040 | 08/18/23 21:03 | |
| EPA 6010D | Manganese | 7.6 | mg/L | 0.040 | 08/18/23 21:03 | |
| EPA 6010D | Potassium | 6.8 | mg/L | 0.50 | 08/18/23 21:03 | |
| EPA 6010D | Sodium | 7.2 | mg/L | 1.0 | 08/18/23 21:03 | |
| EPA 6010D | Calcium | 173 | mg/L | 1.0 | 08/18/23 21:03 | |
| EPA 6010D | Magnesium | 19.4 | mg/L | 0.050 | 08/18/23 21:03 | |
| EPA 6020B | Arsenic | 0.27 | mg/L | 0.010 | 08/22/23 16:32 | |
| EPA 6020B | Barium | 0.053 | mg/L | 0.0050 | 08/22/23 16:32 | |
| EPA 6020B | Beryllium | 0.000095J | mg/L | 0.00050 | 08/22/23 16:32 | |
| EPA 6020B | Boron | 0.93 | mg/L | 0.040 | 08/23/23 13:17 | |
| EPA 6020B | Cobalt | 0.090 | mg/L | 0.0050 | 08/23/23 13:17 | |
| EPA 6020B | Lithium | 0.069 | mg/L | 0.030 | 08/23/23 13:17 | |
| EPA 6020B | Molybdenum | 0.012 | mg/L | 0.010 | 08/22/23 16:32 | |
| EPA 6020B | Thallium | 0.00022J | mg/L | 0.0010 | 08/22/23 16:32 | |
| SM 2540C-2015 | Total Dissolved Solids | 771 | mg/L | 25.0 | 08/15/23 16:56 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 116 | mg/L | 5.0 | 08/16/23 15:20 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 116 | mg/L | 5.0 | 08/16/23 15:20 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 13.5 | mg/L | 1.0 | 08/15/23 21:32 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.28 | mg/L | 0.10 | 08/15/23 21:32 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 339 | mg/L | 7.0 | 08/16/23 08:19 | |
| 92682397002 | HAM-PT-08 | | | | | |
| EPA 6010D | Iron | 22.0 | mg/L | 0.040 | 08/18/23 21:13 | |
| EPA 6010D | Manganese | 6.8 | mg/L | 0.040 | 08/18/23 21:13 | |
| EPA 6010D | Potassium | 6.3 | mg/L | 0.50 | 08/18/23 21:13 | |
| EPA 6010D | Sodium | 6.8 | mg/L | 1.0 | 08/18/23 21:13 | |
| EPA 6010D | Calcium | 146 | mg/L | 1.0 | 08/18/23 21:13 | |
| EPA 6010D | Magnesium | 17.3 | mg/L | 0.050 | 08/18/23 21:13 | |
| EPA 6020B | Arsenic | 0.32 | mg/L | 0.010 | 08/22/23 16:39 | |
| EPA 6020B | Barium | 0.050 | mg/L | 0.0050 | 08/22/23 16:39 | |
| EPA 6020B | Beryllium | 0.000073J | mg/L | 0.00050 | 08/22/23 16:39 | |
| EPA 6020B | Boron | 0.99 | mg/L | 0.040 | 08/23/23 13:23 | |
| EPA 6020B | Cobalt | 0.032 | mg/L | 0.0050 | 08/22/23 16:39 | |
| EPA 6020B | Lithium | 0.073 | mg/L | 0.030 | 08/23/23 13:23 | |
| EPA 6020B | Molybdenum | 0.0071J | mg/L | 0.010 | 08/22/23 16:39 | |
| SM 2540C-2015 | Total Dissolved Solids | 682 | mg/L | 25.0 | 08/15/23 16:57 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 118 | mg/L | 5.0 | 08/16/23 15:40 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 118 | mg/L | 5.0 | 08/16/23 15:40 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 14.5 | mg/L | 1.0 | 08/15/23 22:30 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.27 | mg/L | 0.10 | 08/15/23 22:30 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 290 | mg/L | 6.0 | 08/16/23 09:16 | M1 |
| 92682397003 | HAM-PT-09 | | | | | |
| EPA 6010D | Iron | 0.10 | mg/L | 0.040 | 08/18/23 21:18 | |
| EPA 6010D | Manganese | 0.51 | mg/L | 0.040 | 08/18/23 21:18 | |
| EPA 6010D | Potassium | 7.7 | mg/L | 0.50 | 08/18/23 21:18 | |
| EPA 6010D | Sodium | 10.3 | mg/L | 1.0 | 08/18/23 21:18 | |
| EPA 6010D | Calcium | 136 | mg/L | 1.0 | 08/18/23 21:18 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|---------|-------|--------------|----------------|------------|
| 92682397003 | HAM-PT-09 | | | | | |
| EPA 6010D | Magnesium | 18.2 | mg/L | 0.050 | 08/18/23 21:18 | |
| EPA 6020B | Barium | 0.057 | mg/L | 0.0050 | 08/22/23 16:43 | |
| EPA 6020B | Boron | 1.6 | mg/L | 0.40 | 08/23/23 19:25 | |
| EPA 6020B | Cobalt | 0.0028J | mg/L | 0.0050 | 08/22/23 16:43 | |
| EPA 6020B | Lithium | 0.0017J | mg/L | 0.030 | 08/22/23 16:43 | |
| EPA 6020B | Molybdenum | 0.21 | mg/L | 0.010 | 08/22/23 16:43 | |
| SM 2540C-2015 | Total Dissolved Solids | 594 | mg/L | 25.0 | 08/15/23 16:57 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 150 | mg/L | 5.0 | 08/16/23 15:50 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 150 | mg/L | 5.0 | 08/16/23 15:50 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 47.5 | mg/L | 1.0 | 08/15/23 23:14 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.26 | mg/L | 0.10 | 08/15/23 23:14 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 188 | mg/L | 4.0 | 08/16/23 09:59 | |
| 92682397004 | HAM-PT-10 | | | | | |
| EPA 6010D | Iron | 2.9 | mg/L | 0.040 | 08/23/23 21:33 | |
| EPA 6010D | Manganese | 3.1 | mg/L | 0.040 | 08/23/23 21:33 | |
| EPA 6010D | Potassium | 6.7 | mg/L | 0.50 | 08/23/23 21:33 | M1 |
| EPA 6010D | Sodium | 9.4 | mg/L | 1.0 | 08/23/23 21:33 | M1 |
| EPA 6010D | Calcium | 116 | mg/L | 1.0 | 08/23/23 21:33 | M1 |
| EPA 6010D | Magnesium | 16.8 | mg/L | 0.050 | 08/23/23 21:33 | M1 |
| EPA 6020B | Barium | 0.070 | mg/L | 0.0050 | 08/22/23 16:51 | |
| EPA 6020B | Boron | 2.1 | mg/L | 0.40 | 08/23/23 19:48 | |
| EPA 6020B | Cobalt | 0.0019J | mg/L | 0.0050 | 08/22/23 16:51 | |
| EPA 6020B | Lithium | 0.0012J | mg/L | 0.030 | 08/22/23 16:51 | |
| EPA 6020B | Molybdenum | 0.096 | mg/L | 0.010 | 08/22/23 16:51 | |
| SM 2540C-2015 | Total Dissolved Solids | 553 | mg/L | 25.0 | 08/15/23 16:57 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 199 | mg/L | 5.0 | 08/16/23 16:00 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 199 | mg/L | 5.0 | 08/16/23 16:00 | |
| SM 4500-S2D-2011 | Sulfide | 0.045J | mg/L | 0.10 | 08/15/23 06:30 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 62.5 | mg/L | 1.0 | 08/15/23 23:42 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.27 | mg/L | 0.10 | 08/15/23 23:42 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 123 | mg/L | 3.0 | 08/16/23 10:27 | |
| 92682397005 | HAM-MW-53 | | | | | |
| EPA 6020B | Boron | 1.5 | mg/L | 0.040 | 08/22/23 20:17 | |
| EPA 6020B | Molybdenum | 0.14 | mg/L | 0.010 | 08/22/23 20:17 | |
| 92682397006 | HAM-MW-54 | | | | | |
| EPA 6020B | Arsenic | 0.085 | mg/L | 0.010 | 08/22/23 20:23 | |
| EPA 6020B | Boron | 0.45 | mg/L | 0.040 | 08/22/23 20:23 | |
| 92682397007 | HAM-AP1-FD-06 | | | | | |
| EPA 6010D | Iron | 21.3 | mg/L | 0.040 | 08/23/23 21:54 | |
| EPA 6010D | Manganese | 6.8 | mg/L | 0.040 | 08/23/23 21:54 | |
| EPA 6010D | Potassium | 5.6 | mg/L | 0.50 | 08/23/23 21:54 | |
| EPA 6010D | Sodium | 6.3 | mg/L | 1.0 | 08/23/23 21:54 | |
| EPA 6010D | Calcium | 128 | mg/L | 1.0 | 08/23/23 21:54 | |
| EPA 6010D | Magnesium | 16.7 | mg/L | 0.050 | 08/23/23 21:54 | |
| EPA 6020B | Arsenic | 0.36 | mg/L | 0.010 | 08/22/23 20:29 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|-----------|-------|--------------|----------------|------------|
| 92682397007 | HAM-AP1-FD-06 | | | | | |
| EPA 6020B | Barium | 0.047 | mg/L | 0.0050 | 08/22/23 20:29 | |
| EPA 6020B | Beryllium | 0.000065J | mg/L | 0.00050 | 08/22/23 20:29 | |
| EPA 6020B | Boron | 0.90 | mg/L | 0.040 | 08/22/23 20:29 | |
| EPA 6020B | Cobalt | 0.034 | mg/L | 0.0050 | 08/22/23 20:29 | |
| EPA 6020B | Lithium | 0.066 | mg/L | 0.030 | 08/22/23 20:29 | |
| EPA 6020B | Molybdenum | 0.0068J | mg/L | 0.010 | 08/22/23 20:29 | |
| SM 2540C-2015 | Total Dissolved Solids | 699 | mg/L | 25.0 | 08/15/23 16:57 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 111 | mg/L | 5.0 | 08/16/23 16:12 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 111 | mg/L | 5.0 | 08/16/23 16:12 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 14.6 | mg/L | 1.0 | 08/16/23 03:19 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.29 | mg/L | 0.10 | 08/16/23 03:19 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 293 | mg/L | 6.0 | 08/16/23 12:22 | |
| 92682397008 | HAM-AP1-FB-06 | | | | | |
| EPA 6020B | Boron | 0.012J | mg/L | 0.040 | 08/22/23 20:35 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Sample: HAM-PT-07 | | Lab ID: 92682397001 | | Collected: 08/09/23 17:59 | | Received: 08/11/23 13:12 | | Matrix: Water | |
|-------------------------------------|-----------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 27.1 | mg/L | 0.040 | 0.025 | 1 | 08/18/23 10:36 | 08/18/23 21:03 | 7439-89-6 | |
| Manganese | 7.6 | mg/L | 0.040 | 0.011 | 1 | 08/18/23 10:36 | 08/18/23 21:03 | 7439-96-5 | |
| Potassium | 6.8 | mg/L | 0.50 | 0.15 | 1 | 08/18/23 10:36 | 08/18/23 21:03 | 7440-09-7 | |
| Sodium | 7.2 | mg/L | 1.0 | 0.58 | 1 | 08/18/23 10:36 | 08/18/23 21:03 | 7440-23-5 | |
| Calcium | 173 | mg/L | 1.0 | 0.12 | 1 | 08/18/23 10:36 | 08/18/23 21:03 | 7440-70-2 | |
| Magnesium | 19.4 | mg/L | 0.050 | 0.012 | 1 | 08/18/23 10:36 | 08/18/23 21:03 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/16/23 14:27 | 08/22/23 16:32 | 7440-36-0 | |
| Arsenic | 0.27 | mg/L | 0.010 | 0.0037 | 1 | 08/16/23 14:27 | 08/22/23 16:32 | 7440-38-2 | |
| Barium | 0.053 | mg/L | 0.0050 | 0.00067 | 1 | 08/16/23 14:27 | 08/22/23 16:32 | 7440-39-3 | |
| Beryllium | 0.000095J | mg/L | 0.00050 | 0.000054 | 1 | 08/16/23 14:27 | 08/22/23 16:32 | 7440-41-7 | |
| Boron | 0.93 | mg/L | 0.040 | 0.0086 | 1 | 08/16/23 14:27 | 08/23/23 13:17 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/16/23 14:27 | 08/22/23 16:32 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/16/23 14:27 | 08/23/23 13:17 | 7440-47-3 | |
| Cobalt | 0.090 | mg/L | 0.0050 | 0.00039 | 1 | 08/16/23 14:27 | 08/23/23 13:17 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/16/23 14:27 | 08/22/23 16:32 | 7439-92-1 | |
| Lithium | 0.069 | mg/L | 0.030 | 0.00073 | 1 | 08/16/23 14:27 | 08/23/23 13:17 | 7439-93-2 | |
| Molybdenum | 0.012 | mg/L | 0.010 | 0.00074 | 1 | 08/16/23 14:27 | 08/22/23 16:32 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/16/23 14:27 | 08/22/23 16:32 | 7782-49-2 | |
| Thallium | 0.00022J | mg/L | 0.0010 | 0.00018 | 1 | 08/16/23 14:27 | 08/22/23 16:32 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/17/23 12:00 | 08/17/23 15:18 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 771 | mg/L | 25.0 | 25.0 | 1 | | 08/15/23 16:56 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 116 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 15:20 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 15:20 | | |
| Alkalinity, Total as CaCO3 | 116 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 15:20 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:29 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 13.5 | mg/L | 1.0 | 0.60 | 1 | | 08/15/23 21:32 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

Sample: HAM-PT-07 Lab ID: 92682397001 Collected: 08/09/23 17:59 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days
 Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.28 | mg/L | 0.10 | 0.050 | 1 | | 08/15/23 21:32 | 16984-48-8 | |
| Sulfate | 339 | mg/L | 7.0 | 3.5 | 7 | | 08/16/23 08:19 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Sample: HAM-PT-08 | | Lab ID: 92682397002 | | Collected: 08/09/23 10:50 | | Received: 08/11/23 13:12 | | Matrix: Water | |
|-------------------------------------|-----------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 22.0 | mg/L | 0.040 | 0.025 | 1 | 08/18/23 10:36 | 08/18/23 21:13 | 7439-89-6 | |
| Manganese | 6.8 | mg/L | 0.040 | 0.011 | 1 | 08/18/23 10:36 | 08/18/23 21:13 | 7439-96-5 | |
| Potassium | 6.3 | mg/L | 0.50 | 0.15 | 1 | 08/18/23 10:36 | 08/18/23 21:13 | 7440-09-7 | |
| Sodium | 6.8 | mg/L | 1.0 | 0.58 | 1 | 08/18/23 10:36 | 08/18/23 21:13 | 7440-23-5 | |
| Calcium | 146 | mg/L | 1.0 | 0.12 | 1 | 08/18/23 10:36 | 08/18/23 21:13 | 7440-70-2 | |
| Magnesium | 17.3 | mg/L | 0.050 | 0.012 | 1 | 08/18/23 10:36 | 08/18/23 21:13 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7440-36-0 | |
| Arsenic | 0.32 | mg/L | 0.010 | 0.0037 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7440-38-2 | |
| Barium | 0.050 | mg/L | 0.0050 | 0.00067 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7440-39-3 | |
| Beryllium | 0.000073J | mg/L | 0.00050 | 0.000054 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7440-41-7 | |
| Boron | 0.99 | mg/L | 0.040 | 0.0086 | 1 | 08/16/23 14:27 | 08/23/23 13:23 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7440-47-3 | |
| Cobalt | 0.032 | mg/L | 0.0050 | 0.00039 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7439-92-1 | |
| Lithium | 0.073 | mg/L | 0.030 | 0.00073 | 1 | 08/16/23 14:27 | 08/23/23 13:23 | 7439-93-2 | |
| Molybdenum | 0.0071J | mg/L | 0.010 | 0.00074 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/16/23 14:27 | 08/22/23 16:39 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/17/23 12:00 | 08/17/23 15:34 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 682 | mg/L | 25.0 | 25.0 | 1 | | 08/15/23 16:57 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 118 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 15:40 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 15:40 | | |
| Alkalinity, Total as CaCO3 | 118 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 15:40 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:29 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 14.5 | mg/L | 1.0 | 0.60 | 1 | | 08/15/23 22:30 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

Sample: HAM-PT-08 Lab ID: 92682397002 Collected: 08/09/23 10:50 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|----|
| Fluoride | 0.27 | mg/L | 0.10 | 0.050 | 1 | | 08/15/23 22:30 | 16984-48-8 | |
| Sulfate | 290 | mg/L | 6.0 | 3.0 | 6 | | 08/16/23 09:16 | 14808-79-8 | M1 |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Sample: HAM-PT-09 | | Lab ID: 92682397003 | | Collected: 08/09/23 14:42 | | Received: 08/11/23 13:12 | | Matrix: Water | |
|-------------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 0.10 | mg/L | 0.040 | 0.025 | 1 | 08/18/23 10:36 | 08/18/23 21:18 | 7439-89-6 | |
| Manganese | 0.51 | mg/L | 0.040 | 0.011 | 1 | 08/18/23 10:36 | 08/18/23 21:18 | 7439-96-5 | |
| Potassium | 7.7 | mg/L | 0.50 | 0.15 | 1 | 08/18/23 10:36 | 08/18/23 21:18 | 7440-09-7 | |
| Sodium | 10.3 | mg/L | 1.0 | 0.58 | 1 | 08/18/23 10:36 | 08/18/23 21:18 | 7440-23-5 | |
| Calcium | 136 | mg/L | 1.0 | 0.12 | 1 | 08/18/23 10:36 | 08/18/23 21:18 | 7440-70-2 | |
| Magnesium | 18.2 | mg/L | 0.050 | 0.012 | 1 | 08/18/23 10:36 | 08/18/23 21:18 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7440-38-2 | |
| Barium | 0.057 | mg/L | 0.0050 | 0.00067 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7440-41-7 | |
| Boron | 1.6 | mg/L | 0.40 | 0.086 | 10 | 08/16/23 14:27 | 08/23/23 19:25 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7440-47-3 | |
| Cobalt | 0.0028J | mg/L | 0.0050 | 0.00039 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7439-92-1 | |
| Lithium | 0.0017J | mg/L | 0.030 | 0.00073 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7439-93-2 | |
| Molybdenum | 0.21 | mg/L | 0.010 | 0.00074 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/16/23 14:27 | 08/22/23 16:43 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/17/23 12:00 | 08/17/23 15:37 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 594 | mg/L | 25.0 | 25.0 | 1 | | 08/15/23 16:57 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 150 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 15:50 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 15:50 | | |
| Alkalinity, Total as CaCO3 | 150 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 15:50 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:30 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 47.5 | mg/L | 1.0 | 0.60 | 1 | | 08/15/23 23:14 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

Sample: HAM-PT-09 Lab ID: 92682397003 Collected: 08/09/23 14:42 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.26 | mg/L | 0.10 | 0.050 | 1 | | 08/15/23 23:14 | 16984-48-8 | |
| Sulfate | 188 | mg/L | 4.0 | 2.0 | 4 | | 08/16/23 09:59 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Sample: HAM-PT-10 | | Lab ID: 92682397004 | | Collected: 08/09/23 13:05 | | Received: 08/11/23 13:12 | | Matrix: Water | |
|-------------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 2.9 | mg/L | 0.040 | 0.025 | 1 | 08/23/23 12:06 | 08/23/23 21:33 | 7439-89-6 | |
| Manganese | 3.1 | mg/L | 0.040 | 0.011 | 1 | 08/23/23 12:06 | 08/23/23 21:33 | 7439-96-5 | |
| Potassium | 6.7 | mg/L | 0.50 | 0.15 | 1 | 08/23/23 12:06 | 08/23/23 21:33 | 7440-09-7 | M1 |
| Sodium | 9.4 | mg/L | 1.0 | 0.58 | 1 | 08/23/23 12:06 | 08/23/23 21:33 | 7440-23-5 | M1 |
| Calcium | 116 | mg/L | 1.0 | 0.12 | 1 | 08/23/23 12:06 | 08/23/23 21:33 | 7440-70-2 | M1 |
| Magnesium | 16.8 | mg/L | 0.050 | 0.012 | 1 | 08/23/23 12:06 | 08/23/23 21:33 | 7439-95-4 | M1 |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7440-38-2 | |
| Barium | 0.070 | mg/L | 0.0050 | 0.00067 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7440-41-7 | |
| Boron | 2.1 | mg/L | 0.40 | 0.086 | 10 | 08/16/23 14:27 | 08/23/23 19:48 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7440-47-3 | |
| Cobalt | 0.0019J | mg/L | 0.0050 | 0.00039 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7439-92-1 | |
| Lithium | 0.0012J | mg/L | 0.030 | 0.00073 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7439-93-2 | |
| Molybdenum | 0.096 | mg/L | 0.010 | 0.00074 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/16/23 14:27 | 08/22/23 16:51 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/17/23 12:00 | 08/17/23 15:39 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 553 | mg/L | 25.0 | 25.0 | 1 | | 08/15/23 16:57 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 199 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 16:00 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 16:00 | | |
| Alkalinity, Total as CaCO3 | 199 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 16:00 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | 0.045J | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:30 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 62.5 | mg/L | 1.0 | 0.60 | 1 | | 08/15/23 23:42 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

Sample: HAM-PT-10 Lab ID: 92682397004 Collected: 08/09/23 13:05 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days
 Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.27 | mg/L | 0.10 | 0.050 | 1 | | 08/15/23 23:42 | 16984-48-8 | |
| Sulfate | 123 | mg/L | 3.0 | 1.5 | 3 | | 08/16/23 10:27 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

Sample: HAM-MW-53 Lab ID: 92682397005 Collected: 08/09/23 16:40 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|------------|------|------|-------|---------|---|----------------|----------------|-----------|--|
| Boron | 1.5 | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 10:25 | 08/22/23 20:17 | 7440-42-8 | |
| Molybdenum | 0.14 | mg/L | 0.010 | 0.00074 | 1 | 08/17/23 10:25 | 08/22/23 20:17 | 7439-98-7 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

Sample: HAM-MW-54 Lab ID: 92682397006 Collected: 08/09/23 16:51 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|---------|--------------|------|-------|--------|---|----------------|----------------|-----------|--|
| Arsenic | 0.085 | mg/L | 0.010 | 0.0037 | 1 | 08/17/23 10:25 | 08/22/23 20:23 | 7440-38-2 | |
| Boron | 0.45 | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 10:25 | 08/22/23 20:23 | 7440-42-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Sample: HAM-AP1-FD-06 | | Lab ID: 92682397007 | | Collected: 08/09/23 00:00 | | Received: 08/11/23 13:12 | | Matrix: Water | |
|-------------------------------------|----------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 21.3 | mg/L | 0.040 | 0.025 | 1 | 08/23/23 12:06 | 08/23/23 21:54 | 7439-89-6 | |
| Manganese | 6.8 | mg/L | 0.040 | 0.011 | 1 | 08/23/23 12:06 | 08/23/23 21:54 | 7439-96-5 | |
| Potassium | 5.6 | mg/L | 0.50 | 0.15 | 1 | 08/23/23 12:06 | 08/23/23 21:54 | 7440-09-7 | |
| Sodium | 6.3 | mg/L | 1.0 | 0.58 | 1 | 08/23/23 12:06 | 08/23/23 21:54 | 7440-23-5 | |
| Calcium | 128 | mg/L | 1.0 | 0.12 | 1 | 08/23/23 12:06 | 08/23/23 21:54 | 7440-70-2 | |
| Magnesium | 16.7 | mg/L | 0.050 | 0.012 | 1 | 08/23/23 12:06 | 08/23/23 21:54 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7440-36-0 | |
| Arsenic | 0.36 | mg/L | 0.010 | 0.0037 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7440-38-2 | |
| Barium | 0.047 | mg/L | 0.0050 | 0.00067 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7440-39-3 | |
| Beryllium | 0.00065J | mg/L | 0.00050 | 0.000054 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7440-41-7 | |
| Boron | 0.90 | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/17/23 10:25 | 08/23/23 17:24 | 7440-47-3 | |
| Cobalt | 0.034 | mg/L | 0.0050 | 0.00039 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7439-92-1 | |
| Lithium | 0.066 | mg/L | 0.030 | 0.00073 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7439-93-2 | |
| Molybdenum | 0.0068J | mg/L | 0.010 | 0.00074 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/17/23 10:25 | 08/22/23 20:29 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/17/23 12:00 | 08/17/23 15:42 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 699 | mg/L | 25.0 | 25.0 | 1 | | 08/15/23 16:57 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 111 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 16:12 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 16:12 | | |
| Alkalinity, Total as CaCO3 | 111 | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 16:12 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:31 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 14.6 | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 03:19 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

Sample: HAM-AP1-FD-06 Lab ID: 92682397007 Collected: 08/09/23 00:00 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.29 | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 03:19 | 16984-48-8 | |
| Sulfate | 293 | mg/L | 6.0 | 3.0 | 6 | | 08/16/23 12:22 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Sample: HAM-AP1-FB-06 | | Lab ID: 92682397008 | | Collected: 08/09/23 16:50 | | Received: 08/11/23 13:12 | | Matrix: Water | |
|-------------------------------------|---------------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 08/23/23 12:06 | 08/23/23 21:59 | 7439-89-6 | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 08/23/23 12:06 | 08/23/23 21:59 | 7439-96-5 | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 08/23/23 12:06 | 08/23/23 21:59 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 08/23/23 12:06 | 08/23/23 21:59 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 08/23/23 12:06 | 08/23/23 21:59 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 08/23/23 12:06 | 08/23/23 21:59 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00067 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7440-41-7 | |
| Boron | 0.012J | mg/L | 0.040 | 0.0086 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/17/23 10:25 | 08/23/23 17:28 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/17/23 10:25 | 08/22/23 20:35 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/17/23 12:00 | 08/17/23 15:44 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 08/15/23 16:57 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 16:22 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 16:22 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 08/16/23 16:22 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 08/15/23 06:32 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 08/16/23 03:33 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

Sample: HAM-AP1-FB-06 Lab ID: 92682397008 Collected: 08/09/23 16:50 Received: 08/11/23 13:12 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|----|------|------|-------|---|--|----------------|------------|--|
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 08/16/23 03:33 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 08/16/23 03:33 | 14808-79-8 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 793618 | Analysis Method: | EPA 6010D |
| QC Batch Method: | EPA 3010A | Analysis Description: | 6010D ATL |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92682397001, 92682397002, 92682397003

METHOD BLANK: 4112489 Matrix: Water

Associated Lab Samples: 92682397001, 92682397002, 92682397003

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 08/18/23 19:00 | |
| Iron | mg/L | ND | 0.040 | 0.025 | 08/18/23 19:00 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 08/18/23 19:00 | |
| Manganese | mg/L | ND | 0.040 | 0.011 | 08/18/23 19:00 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 08/18/23 19:00 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 08/18/23 19:00 | |

LABORATORY CONTROL SAMPLE: 4112490

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 1 | 1.1 | 108 | 80-120 | |
| Iron | mg/L | 1 | 1.0 | 102 | 80-120 | |
| Magnesium | mg/L | 1 | 1.0 | 101 | 80-120 | |
| Manganese | mg/L | 1 | 0.99 | 99 | 80-120 | |
| Potassium | mg/L | 1 | 1.1 | 106 | 80-120 | |
| Sodium | mg/L | 1 | 1.1 | 106 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112491 4112492

| Parameter | Units | 92682392001 | | 4112491 | | 4112492 | | % Rec | % Rec | % Rec | Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|-------|--------|-------|--------|-----|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | | | | | | | |
| Calcium | mg/L | 8.4 | 1 | 1 | 8.8 | 9.3 | 35 | 92 | 75-125 | 6 | 20 | M1 | | |
| Iron | mg/L | ND | 1 | 1 | 1.0 | 1.0 | 100 | 100 | 75-125 | 0 | 20 | | | |
| Magnesium | mg/L | 3.4 | 1 | 1 | 4.1 | 4.3 | 72 | 92 | 75-125 | 5 | 20 | M1 | | |
| Manganese | mg/L | ND | 1 | 1 | 0.98 | 0.99 | 97 | 98 | 75-125 | 1 | 20 | | | |
| Potassium | mg/L | 0.32J | 1 | 1 | 1.3 | 1.5 | 102 | 113 | 75-125 | 8 | 20 | | | |
| Sodium | mg/L | 9.5 | 1 | 1 | 10 | 10.5 | 44 | 103 | 75-125 | 6 | 20 | M1 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| | | | |
|-------------------------|---------------------------------------|-----------------------|--|
| QC Batch: | 795409 | Analysis Method: | EPA 6010D |
| QC Batch Method: | EPA 3010A | Analysis Description: | 6010D ATL |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |
| Associated Lab Samples: | 92682397004, 92682397007, 92682397008 | | |

METHOD BLANK: 4121384 Matrix: Water

Associated Lab Samples: 92682397004, 92682397007, 92682397008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 08/23/23 21:12 | |
| Iron | mg/L | ND | 0.040 | 0.025 | 08/23/23 21:12 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 08/23/23 21:12 | |
| Manganese | mg/L | ND | 0.040 | 0.011 | 08/23/23 21:12 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 08/23/23 21:12 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 08/23/23 21:12 | |

LABORATORY CONTROL SAMPLE: 4121385

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 1 | 0.93J | 93 | 80-120 | |
| Iron | mg/L | 1 | 1.0 | 102 | 80-120 | |
| Magnesium | mg/L | 1 | 1.1 | 109 | 80-120 | |
| Manganese | mg/L | 1 | 1.0 | 105 | 80-120 | |
| Potassium | mg/L | 1 | 1.0 | 100 | 80-120 | |
| Sodium | mg/L | 1 | 1.1 | 105 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4121386 4121387

| Parameter | Units | MS | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|--------|-------|-------|-----|--------|--------------|-----|---------|------|
| | | Spike Conc. | Result | Spike Conc. | Result | % Rec | % Rec | | | | | | |
| Calcium | mg/L | 116 | 1 | 1 | 112 | 116 | -370 | -33 | 75-125 | 3 | 20 | M1 | |
| Iron | mg/L | 2.9 | 1 | 1 | 3.7 | 3.8 | 84 | 95 | 75-125 | 3 | 20 | | |
| Magnesium | mg/L | 16.8 | 1 | 1 | 17.0 | 17.5 | 22 | 63 | 75-125 | 2 | 20 | M1 | |
| Manganese | mg/L | 3.1 | 1 | 1 | 4.0 | 4.0 | 83 | 90 | 75-125 | 2 | 20 | | |
| Potassium | mg/L | 6.7 | 1 | 1 | 7.5 | 7.7 | 73 | 98 | 75-125 | 3 | 20 | M1 | |
| Sodium | mg/L | 9.4 | 1 | 1 | 9.9 | 10.3 | 54 | 92 | 75-125 | 4 | 20 | M1 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 794002 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6020 MET |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004

METHOD BLANK: 4114214 Matrix: Water

Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | 0.0043 | 0.0030 | 0.0012 | 08/22/23 15:04 | |
| Arsenic | mg/L | ND | 0.010 | 0.0037 | 08/22/23 15:04 | |
| Barium | mg/L | ND | 0.0050 | 0.00067 | 08/22/23 15:04 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000054 | 08/22/23 15:04 | |
| Boron | mg/L | ND | 0.040 | 0.0086 | 08/22/23 15:04 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00011 | 08/22/23 15:04 | |
| Chromium | mg/L | ND | 0.0050 | 0.0011 | 08/22/23 15:04 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00039 | 08/22/23 15:04 | |
| Lead | mg/L | ND | 0.0010 | 0.00012 | 08/22/23 15:04 | |
| Lithium | mg/L | ND | 0.030 | 0.00073 | 08/22/23 15:04 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00074 | 08/22/23 15:04 | |
| Selenium | mg/L | ND | 0.0050 | 0.0014 | 08/22/23 15:04 | |
| Thallium | mg/L | ND | 0.0010 | 0.00018 | 08/22/23 15:04 | |

LABORATORY CONTROL SAMPLE: 4114215

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.11 | 112 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.11 | 110 | 80-120 | |
| Boron | mg/L | 1 | 1.1 | 110 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.11 | 106 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Lead | mg/L | 0.1 | 0.10 | 105 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.11 | 110 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.11 | 107 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.11 | 105 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.11 | 105 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4114216 4114217

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|----------|-----------|--------------|--------|---------|------|
| | | 92682396010 | Result | Spike Conc. | Spike Conc. | | | | | | |
| Antimony | mg/L | 0.0014J | 0.1 | 0.1 | 0.11 | 0.10 | 107 | 101 | 75-125 | 6 | 20 |
| Arsenic | mg/L | 0.0040J | 0.1 | 0.1 | 0.12 | 0.11 | 112 | 104 | 75-125 | 7 | 20 |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Parameter | Units | 4114216 | | 4114217 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|------------|------|
| | | 92682396010 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | |
| Barium | mg/L | 0.042 | 0.1 | 0.1 | 0.16 | 0.15 | 118 | 108 | 75-125 | 6 | 20 | |
| Beryllium | mg/L | 0.00071 | 0.1 | 0.1 | 0.090 | 0.085 | 89 | 84 | 75-125 | 6 | 20 | |
| Boron | mg/L | 10.1 | 1 | 1 | 10.9 | 10.7 | 77 | 57 | 75-125 | 2 | 20 | M1 |
| Cadmium | mg/L | 0.00059 | 0.1 | 0.1 | 0.099 | 0.094 | 98 | 94 | 75-125 | 5 | 20 | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.097 | 104 | 97 | 75-125 | 7 | 20 | |
| Cobalt | mg/L | 0.21 | 0.1 | 0.1 | 0.31 | 0.29 | 102 | 83 | 75-125 | 6 | 20 | |
| Lead | mg/L | 0.00013J | 0.1 | 0.1 | 0.067 | 0.064 | 67 | 64 | 75-125 | 5 | 20 | M1 |
| Lithium | mg/L | 0.0024J | 0.1 | 0.1 | 0.097 | 0.092 | 95 | 89 | 75-125 | 6 | 20 | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.10 | 109 | 104 | 75-125 | 5 | 20 | |
| Selenium | mg/L | 0.013 | 0.1 | 0.1 | 0.13 | 0.13 | 122 | 113 | 75-125 | 8 | 20 | |
| Thallium | mg/L | 0.00021J | 0.1 | 0.1 | 0.069 | 0.066 | 68 | 65 | 75-125 | 5 | 20 | M1 |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 794177 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6020 MET |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92682397005, 92682397006, 92682397007, 92682397008

METHOD BLANK: 4115107 Matrix: Water

Associated Lab Samples: 92682397005, 92682397006, 92682397007, 92682397008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.0012 | 08/22/23 18:42 | |
| Arsenic | mg/L | ND | 0.010 | 0.0037 | 08/22/23 18:42 | |
| Barium | mg/L | ND | 0.0050 | 0.00067 | 08/22/23 18:42 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000054 | 08/22/23 18:42 | |
| Boron | mg/L | ND | 0.040 | 0.0086 | 08/22/23 18:42 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00011 | 08/22/23 18:42 | |
| Chromium | mg/L | ND | 0.0050 | 0.0011 | 08/23/23 16:28 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00039 | 08/22/23 18:42 | |
| Lead | mg/L | ND | 0.0010 | 0.00012 | 08/22/23 18:42 | |
| Lithium | mg/L | ND | 0.030 | 0.00073 | 08/22/23 18:42 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00074 | 08/22/23 18:42 | |
| Selenium | mg/L | ND | 0.0050 | 0.0014 | 08/22/23 18:42 | |
| Thallium | mg/L | ND | 0.0010 | 0.00018 | 08/22/23 18:42 | |

LABORATORY CONTROL SAMPLE: 4115108

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.094 | 94 | 80-120 | |
| Barium | mg/L | 0.1 | 0.096 | 96 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.093 | 93 | 80-120 | |
| Boron | mg/L | 1 | 0.94 | 94 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.096 | 96 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.090 | 90 | 80-120 | |
| Lead | mg/L | 0.1 | 0.094 | 94 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.095 | 95 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.097 | 97 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.093 | 93 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4115109 4115110

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92681886001 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 104 | 103 | 75-125 | 1 | 20 | | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.098 | 99 | 98 | 75-125 | 1 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Parameter | Units | 4115109 | | 4115110 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 92681886001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Barium | mg/L | 0.039 | 0.1 | 0.1 | 0.14 | 0.14 | 103 | 103 | 75-125 | 1 | 20 | | |
| Beryllium | mg/L | 0.000067J | 0.1 | 0.1 | 0.094 | 0.091 | 94 | 91 | 75-125 | 4 | 20 | | |
| Boron | mg/L | 0.029J | 1 | 1 | 0.97 | 0.94 | 94 | 91 | 75-125 | 3 | 20 | | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.098 | 0.099 | 98 | 99 | 75-125 | 1 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 101 | 75-125 | 1 | 20 | | |
| Cobalt | mg/L | 0.00041J | 0.1 | 0.1 | 0.092 | 0.091 | 91 | 91 | 75-125 | 0 | 20 | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.093 | 0.092 | 93 | 92 | 75-125 | 1 | 20 | | |
| Lithium | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.094 | 95 | 93 | 75-125 | 2 | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.096 | 0.096 | 96 | 95 | 75-125 | 0 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.099 | 100 | 99 | 75-125 | 1 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.092 | 0.092 | 92 | 92 | 75-125 | 0 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 794154 | Analysis Method: | EPA 7470A |
| QC Batch Method: | EPA 7470A | Analysis Description: | 7470 Mercury |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

METHOD BLANK: 4115033 Matrix: Water
 Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00020 | 0.00013 | 08/17/23 15:13 | |

LABORATORY CONTROL SAMPLE: 4115034

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0023 | 93 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4115035 4115036

| Parameter | Units | 4115035 | | 4115036 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Mercury | mg/L | ND | 0.0025 | 0.0024 | 0.0024 | 94 | 94 | 75-125 | 0 | 20 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

QC Batch: 793700 Analysis Method: SM 2540C-2015
 QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

METHOD BLANK: 4112841 Matrix: Water
 Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 08/15/23 16:52 | |

LABORATORY CONTROL SAMPLE: 4112842

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 446 | 112 | 80-120 | |

SAMPLE DUPLICATE: 4112843

| Parameter | Units | 92682396001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 1890 | 1910 | 1 | 10 | |

SAMPLE DUPLICATE: 4112844

| Parameter | Units | 92682397001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 771 | 760 | 1 | 10 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

QC Batch: 793896 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

METHOD BLANK: 4113632 Matrix: Water
 Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 08/16/23 13:58 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 08/16/23 13:58 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 08/16/23 13:58 | |

LABORATORY CONTROL SAMPLE: 4113633

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.1 | 104 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4113634

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 55.0 | 110 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4113635 4113636

| Parameter | Units | 92682175001 | | 92682175002 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------|----------------|-----------------|-----------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 464 | 50 | 50 | 487 | 487 | 47 | 46 | 80-120 | 0 | 25 | M1 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4113637 4113638

| Parameter | Units | 92682175002 | | 92682175001 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------|----------------|-----------------|-----------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 12.5 | 50 | 50 | 65.7 | 65.4 | 106 | 106 | 80-120 | 0 | 25 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

QC Batch: 793500 Analysis Method: SM 4500-S2D-2011
 QC Batch Method: SM 4500-S2D-2011 Analysis Description: 4500S2D Sulfide Water
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

METHOD BLANK: 4111958 Matrix: Water
 Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide | mg/L | ND | 0.10 | 0.022 | 08/15/23 06:24 | |

LABORATORY CONTROL SAMPLE: 4111959

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide | mg/L | 0.5 | 0.50 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4111960 4111961

| Parameter | Units | 92682396005 | | 4111961 | | % Rec | % Rec | % Rec | Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------|----------------|-------|-------|-------|--------|-----|---------|------|
| | | MS Result | MS Spike Conc. | MS Result | MS Spike Conc. | | | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.50 | 0.45 | 99 | 89 | 80-120 | 11 | 10 | R1 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4111962 4111963

| Parameter | Units | 92682397007 | | 4111963 | | % Rec | % Rec | % Rec | Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------|----------------|-------|-------|-------|--------|-----|---------|------|
| | | MS Result | MS Spike Conc. | MS Result | MS Spike Conc. | | | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.53 | 0.55 | 104 | 108 | 80-120 | 4 | 10 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| | | | |
|------------------|------------------------|-----------------------|--------------------------------------|
| QC Batch: | 793550 | Analysis Method: | EPA 300.0 Rev 2.1 1993 |
| QC Batch Method: | EPA 300.0 Rev 2.1 1993 | Analysis Description: | 300.0 IC Anions |
| | | Laboratory: | Pace Analytical Services - Asheville |

Associated Lab Samples: 92682397001

METHOD BLANK: 4112126 Matrix: Water

Associated Lab Samples: 92682397001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 08/15/23 12:46 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 08/15/23 12:46 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 08/15/23 12:46 | |

LABORATORY CONTROL SAMPLE: 4112127

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 48.4 | 97 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.5 | 98 | 90-110 | |
| Sulfate | mg/L | 50 | 47.4 | 95 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112128 4112129

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92682198001 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Chloride | mg/L | ND | 50 | 50 | 50 | 48.0 | 48.3 | 95 | 96 | 90-110 | 1 | 10 | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.5 | 2.4 | 2.4 | 94 | 95 | 90-110 | 1 | 10 | |
| Sulfate | mg/L | ND | 50 | 50 | 50 | 47.3 | 47.6 | 93 | 94 | 90-110 | 1 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112130 4112131

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92682396003 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Chloride | mg/L | 141 | 141 | 50 | 50 | 179 | 180 | 77 | 78 | 90-110 | 0 | 10 M1 | |
| Fluoride | mg/L | 0.56 | 0.56 | 2.5 | 2.5 | 3.1 | 3.2 | 102 | 104 | 90-110 | 2 | 10 | |
| Sulfate | mg/L | 762 | 762 | 50 | 50 | 787 | 789 | 50 | 53 | 90-110 | 0 | 10 M1 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

QC Batch: 793553 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

METHOD BLANK: 4112135 Matrix: Water
 Associated Lab Samples: 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 08/15/23 22:01 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 08/15/23 22:01 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 08/15/23 22:01 | |

LABORATORY CONTROL SAMPLE: 4112136

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 49.5 | 99 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.5 | 100 | 90-110 | |
| Sulfate | mg/L | 50 | 48.3 | 97 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112137 4112138

| Parameter | Units | 92682397002 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|--------|------------|-------|-----------|--------|--------------|-------|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | Result | MSD Result | % Rec | MSD % Rec | | | | | |
| Chloride | mg/L | 14.5 | 50 | 50 | 62.4 | 63.0 | 96 | 97 | 90-110 | 1 | 10 | | |
| Fluoride | mg/L | 0.27 | 2.5 | 2.5 | 2.6 | 2.6 | 92 | 93 | 90-110 | 2 | 10 | | |
| Sulfate | mg/L | 290 | 50 | 50 | 327 | 328 | 73 | 75 | 90-110 | 0 | 10 M1 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112139 4112140

| Parameter | Units | 92682398009 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|--------|------------|-------|-----------|--------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | Result | MSD Result | % Rec | MSD % Rec | | | | | |
| Chloride | mg/L | 13.6 | 50 | 50 | 61.8 | 62.0 | 96 | 97 | 90-110 | 0 | 10 | | |
| Fluoride | mg/L | 1.5 | 2.5 | 2.5 | 3.8 | 3.9 | 95 | 96 | 90-110 | 1 | 10 | | |
| Sulfate | mg/L | 0.62J | 50 | 50 | 47.3 | 47.5 | 93 | 94 | 90-110 | 1 | 10 | | |

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QUALIFIERS

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 (CCR-CA)

Pace Project No.: 92682397

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|------------------------|----------|-------------------|------------------|
| 92682397001 | HAM-PT-07 | EPA 3010A | 793618 | EPA 6010D | 794582 |
| 92682397002 | HAM-PT-08 | EPA 3010A | 793618 | EPA 6010D | 794582 |
| 92682397003 | HAM-PT-09 | EPA 3010A | 793618 | EPA 6010D | 794582 |
| 92682397004 | HAM-PT-10 | EPA 3010A | 795409 | EPA 6010D | 795455 |
| 92682397007 | HAM-AP1-FD-06 | EPA 3010A | 795409 | EPA 6010D | 795455 |
| 92682397008 | HAM-AP1-FB-06 | EPA 3010A | 795409 | EPA 6010D | 795455 |
| 92682397001 | HAM-PT-07 | EPA 3005A | 794002 | EPA 6020B | 794064 |
| 92682397002 | HAM-PT-08 | EPA 3005A | 794002 | EPA 6020B | 794064 |
| 92682397003 | HAM-PT-09 | EPA 3005A | 794002 | EPA 6020B | 794064 |
| 92682397004 | HAM-PT-10 | EPA 3005A | 794002 | EPA 6020B | 794064 |
| 92682397005 | HAM-MW-53 | EPA 3005A | 794177 | EPA 6020B | 794304 |
| 92682397006 | HAM-MW-54 | EPA 3005A | 794177 | EPA 6020B | 794304 |
| 92682397007 | HAM-AP1-FD-06 | EPA 3005A | 794177 | EPA 6020B | 794304 |
| 92682397008 | HAM-AP1-FB-06 | EPA 3005A | 794177 | EPA 6020B | 794304 |
| 92682397001 | HAM-PT-07 | EPA 7470A | 794154 | EPA 7470A | 794256 |
| 92682397002 | HAM-PT-08 | EPA 7470A | 794154 | EPA 7470A | 794256 |
| 92682397003 | HAM-PT-09 | EPA 7470A | 794154 | EPA 7470A | 794256 |
| 92682397004 | HAM-PT-10 | EPA 7470A | 794154 | EPA 7470A | 794256 |
| 92682397007 | HAM-AP1-FD-06 | EPA 7470A | 794154 | EPA 7470A | 794256 |
| 92682397008 | HAM-AP1-FB-06 | EPA 7470A | 794154 | EPA 7470A | 794256 |
| 92682397001 | HAM-PT-07 | SM 2540C-2015 | 793700 | | |
| 92682397002 | HAM-PT-08 | SM 2540C-2015 | 793700 | | |
| 92682397003 | HAM-PT-09 | SM 2540C-2015 | 793700 | | |
| 92682397004 | HAM-PT-10 | SM 2540C-2015 | 793700 | | |
| 92682397007 | HAM-AP1-FD-06 | SM 2540C-2015 | 793700 | | |
| 92682397008 | HAM-AP1-FB-06 | SM 2540C-2015 | 793700 | | |
| 92682397001 | HAM-PT-07 | SM 2320B-2011 | 793896 | | |
| 92682397002 | HAM-PT-08 | SM 2320B-2011 | 793896 | | |
| 92682397003 | HAM-PT-09 | SM 2320B-2011 | 793896 | | |
| 92682397004 | HAM-PT-10 | SM 2320B-2011 | 793896 | | |
| 92682397007 | HAM-AP1-FD-06 | SM 2320B-2011 | 793896 | | |
| 92682397008 | HAM-AP1-FB-06 | SM 2320B-2011 | 793896 | | |
| 92682397001 | HAM-PT-07 | SM 4500-S2D-2011 | 793500 | | |
| 92682397002 | HAM-PT-08 | SM 4500-S2D-2011 | 793500 | | |
| 92682397003 | HAM-PT-09 | SM 4500-S2D-2011 | 793500 | | |
| 92682397004 | HAM-PT-10 | SM 4500-S2D-2011 | 793500 | | |
| 92682397007 | HAM-AP1-FD-06 | SM 4500-S2D-2011 | 793500 | | |
| 92682397008 | HAM-AP1-FB-06 | SM 4500-S2D-2011 | 793500 | | |
| 92682397001 | HAM-PT-07 | EPA 300.0 Rev 2.1 1993 | 793550 | | |
| 92682397002 | HAM-PT-08 | EPA 300.0 Rev 2.1 1993 | 793553 | | |
| 92682397003 | HAM-PT-09 | EPA 300.0 Rev 2.1 1993 | 793553 | | |
| 92682397004 | HAM-PT-10 | EPA 300.0 Rev 2.1 1993 | 793553 | | |
| 92682397007 | HAM-AP1-FD-06 | EPA 300.0 Rev 2.1 1993 | 793553 | | |
| 92682397008 | HAM-AP1-FB-06 | EPA 300.0 Rev 2.1 1993 | 793553 | | |

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #

WO# 92682397



92682397

Courier: Commercial Fed Ex UPS USPS Client Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *8/11/23*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer: IR Gun ID: *230*

Type of Ice: Wet Blue None

Cooler Temp: *3.1* Correction Factor: Add/Subtract (°C) *0.0*

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *3.1*

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. | Comments/Discrepancy: |
|--|--|-----|-----------------------|
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. | |
| Short Hold Time Analysis (<72 hr.)? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. | |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. | |
| Sufficient Volume? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 5. | |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. | |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. | |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. | |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. | |
| -Includes Date/Time/ID/Analysis Matrix: <i>W</i> | | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. | |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. | |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date: *8/16/23*

Project Manager SRF Review:

Date: *8/19/23*



Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

WO# 92682397
 PM: BV Date Dred: 08/28/23
 CLIENT: 92- GRAHAM

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation Vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|
| 1 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).



September 12, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92685665

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on August 31, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-1
Pace Project No.: 92685665

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92685665

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 92685665001 | HAM-PT-09 | Water | 08/30/23 12:08 | 08/31/23 08:54 |
| 92685665002 | HAM-PT-10 | Water | 08/30/23 13:10 | 08/31/23 08:54 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92685665

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-----------|-----------|----------|-------------------|
| 92685665001 | HAM-PT-09 | EPA 6020B | CW1 | 2 |
| 92685665002 | HAM-PT-10 | EPA 6020B | CW1 | 2 |

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92685665

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|--------|-------|--------------|----------------|------------|
| 92685665001 | HAM-PT-09 | | | | | |
| EPA 6020B | Boron | 1.8 | mg/L | 0.040 | 09/09/23 17:03 | |
| EPA 6020B | Molybdenum | 0.23 | mg/L | 0.010 | 09/09/23 17:03 | |
| 92685665002 | HAM-PT-10 | | | | | |
| EPA 6020B | Boron | 2.3 | mg/L | 0.040 | 09/09/23 17:11 | |
| EPA 6020B | Molybdenum | 0.096 | mg/L | 0.010 | 09/09/23 17:11 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92685665

Sample: HAM-PT-09 Lab ID: 92685665001 Collected: 08/30/23 12:08 Received: 08/31/23 08:54 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|------------|------|------|-------|---------|---|----------------|----------------|-----------|--|
| Boron | 1.8 | mg/L | 0.040 | 0.0086 | 1 | 09/05/23 11:22 | 09/09/23 17:03 | 7440-42-8 | |
| Molybdenum | 0.23 | mg/L | 0.010 | 0.00074 | 1 | 09/05/23 11:22 | 09/09/23 17:03 | 7439-98-7 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92685665

Sample: HAM-PT-10 Lab ID: 92685665002 Collected: 08/30/23 13:10 Received: 08/31/23 08:54 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------|-----|----|----------|----------|---------|------|
| | | | Limit | MDL | DF | | | | |

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|------------|--------------|------|-------|---------|---|----------------|----------------|-----------|--|
| Boron | 2.3 | mg/L | 0.040 | 0.0086 | 1 | 09/05/23 11:22 | 09/09/23 17:11 | 7440-42-8 | |
| Molybdenum | 0.096 | mg/L | 0.010 | 0.00074 | 1 | 09/05/23 11:22 | 09/09/23 17:11 | 7439-98-7 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92685665

QC Batch: 797729

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92685665001, 92685665002

METHOD BLANK: 4131985

Matrix: Water

Associated Lab Samples: 92685665001, 92685665002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|---------|----------------|------------|
| Boron | mg/L | ND | 0.040 | 0.0086 | 09/09/23 16:13 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00074 | 09/09/23 16:13 | |

LABORATORY CONTROL SAMPLE: 4131986

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Boron | mg/L | 1 | 0.97 | 97 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.095 | 95 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4131987 4131988

| Parameter | Units | 92683381053 | | 4131987 | | 4131988 | | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | | | | |
| Boron | mg/L | 1.6 | 1 | 1 | 2.8 | 2.6 | 111 | 99 | 75-125 | 4 | 20 |
| Molybdenum | mg/L | 0.019 | 0.1 | 0.1 | 0.13 | 0.12 | 106 | 105 | 75-125 | 1 | 20 |

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Hammond AP-1

Pace Project No.: 92685665

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92685665

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 92685665001 | HAM-PT-09 | EPA 3005A | 797729 | EPA 6020B | 797807 |
| 92685665002 | HAM-PT-10 | EPA 3005A | 797729 | EPA 6020B | 797807 |

REPORT OF LABORATORY ANALYSIS

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DC#_ Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Project #

WO#: 92685665

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

PH: BV Due Date: 09/15/23
CLIENT: 92- GP-HAM

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 8-31-23 JLC

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID:

714

Type of Ice:

Wet Blue None

Cooler Temp:

3.1

Correction Factor:

Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

3.1

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | Comments/Discrepancy: |
|--|-----------------------|
| Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. |
| Sample Labels Match CDC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Includes Date/Time ID/Analysis Matrix: <u> </u> | |
| Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC# Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO# : 92685665

PM: BV

Due Date: 09/15/23

CLIENT: 92- GP-HAM

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

October 2023



October 06, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92691444

Dear Kristen Jurinko:

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

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-1

Pace Project No.: 92691444

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92691444

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 92691444001 | HAM-PT-09 | Water | 10/03/23 19:35 | 10/04/23 10:10 |
| 92691444002 | HAM-PT-10 | Water | 10/03/23 11:33 | 10/04/23 10:10 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92691444

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-----------|------------------------|----------|-------------------|
| 92691444001 | HAM-PT-09 | EPA 6020B | CW1 | 2 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 |
| 92691444002 | HAM-PT-10 | EPA 6020B | CW1 | 2 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 |

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1
 Pace Project No.: 92691444

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|--------|-------|--------------|----------------|------------|
| 92691444001 | HAM-PT-09 | | | | | |
| EPA 6020B | Iron | 0.35 | mg/L | 0.040 | 10/05/23 14:45 | |
| EPA 6020B | Molybdenum | 0.20 | mg/L | 0.010 | 10/05/23 14:45 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 53.9 | mg/L | 1.0 | 10/04/23 22:23 | |
| 92691444002 | HAM-PT-10 | | | | | |
| EPA 6020B | Iron | 1.6 | mg/L | 0.040 | 10/05/23 15:04 | |
| EPA 6020B | Molybdenum | 0.16 | mg/L | 0.010 | 10/05/23 15:04 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 203 | mg/L | 4.0 | 10/04/23 23:22 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92691444

Sample: HAM-PT-09 Lab ID: 92691444001 Collected: 10/03/23 19:35 Received: 10/04/23 10:10 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|---------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.35 | mg/L | 0.040 | 0.030 | 1 | 10/05/23 09:16 | 10/05/23 14:45 | 7439-89-6 | |
| Molybdenum | 0.20 | mg/L | 0.010 | 0.00074 | 1 | 10/05/23 09:16 | 10/05/23 14:45 | 7439-98-7 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfate | 53.9 | mg/L | 1.0 | 0.50 | 1 | | 10/04/23 22:23 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92691444

Sample: HAM-PT-10 Lab ID: 92691444002 Collected: 10/03/23 11:33 Received: 10/04/23 10:10 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|---------|----|----------------|----------------|------------|------|
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 1.6 | mg/L | 0.040 | 0.030 | 1 | 10/05/23 09:16 | 10/05/23 15:04 | 7439-89-6 | |
| Molybdenum | 0.16 | mg/L | 0.010 | 0.00074 | 1 | 10/05/23 09:16 | 10/05/23 15:04 | 7439-98-7 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfate | 203 | mg/L | 4.0 | 2.0 | 4 | | 10/04/23 23:22 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92691444

QC Batch: 804293

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92691444001, 92691444002

METHOD BLANK: 4165329

Matrix: Water

Associated Lab Samples: 92691444001, 92691444002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|---------|----------------|------------|
| Iron | mg/L | ND | 0.040 | 0.030 | 10/05/23 14:36 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00074 | 10/05/23 14:36 | |

LABORATORY CONTROL SAMPLE: 4165330

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Iron | mg/L | 1 | 1.0 | 103 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 101 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4165331 4165332

| Parameter | Units | 92691444001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Iron | mg/L | 0.35 | 1 | 1 | 1.4 | 1.5 | 105 | 118 | 75-125 | 9 | 20 | |
| Molybdenum | mg/L | 0.20 | 0.1 | 0.1 | 0.31 | 0.31 | 107 | 107 | 75-125 | 0 | 20 | |

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92691444

| | |
|---|--|
| QC Batch: 804218 | Analysis Method: EPA 300.0 Rev 2.1 1993 |
| QC Batch Method: EPA 300.0 Rev 2.1 1993 | Analysis Description: 300.0 IC Anions |
| | Laboratory: Pace Analytical Services - Asheville |

Associated Lab Samples: 92691444001, 92691444002

METHOD BLANK: 4165129 Matrix: Water

Associated Lab Samples: 92691444001, 92691444002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Sulfate | mg/L | ND | 1.0 | 0.50 | 10/04/23 21:53 | |

LABORATORY CONTROL SAMPLE: 4165130

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfate | mg/L | 50 | 48.4 | 97 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4165131 4165132

| Parameter | Units | 4165131 | | 4165132 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|-----------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
| | | 92691489001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | MSD Result |
| Sulfate | mg/L | 2.7 | 50 | 50 | 48.8 | 51.6 | 92 | 98 | 90-110 | 6 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4165133 4165134

| Parameter | Units | 4165133 | | 4165134 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|-----------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
| | | 92691367007 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | MSD Result |
| Sulfate | mg/L | 1.5 | 50 | 50 | 49.4 | 50.8 | 96 | 99 | 90-110 | 3 | 10 | |

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Hammond AP-1

Pace Project No.: 92691444

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1

Pace Project No.: 92691444

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|------------------------|----------|-------------------|------------------|
| 92691444001 | HAM-PT-09 | EPA 3005A | 804293 | EPA 6020B | 804403 |
| 92691444002 | HAM-PT-10 | EPA 3005A | 804293 | EPA 6020B | 804403 |
| 92691444001 | HAM-PT-09 | EPA 300.0 Rev 2.1 1993 | 804218 | | |
| 92691444002 | HAM-PT-10 | EPA 300.0 Rev 2.1 1993 | 804218 | | |

REPORT OF LABORATORY ANALYSIS

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DC#_ Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Knoxville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92691444



Courier: Commercial Fed Ex Pace UPS USPS Client Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 10-4-23 AK

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: 083

Type of Ice: Wet Blue None

Cooler Temp: 3.8 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.8

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | Comments/Discrepancy: |
|---|--|-----------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: | WG | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

WO#: 92691444

PM: BV

Due Date: 10/06/23

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: 92- GP-HAM

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document

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

| | |
|---|--|
| Section A Required Client Information Company: GA Power Address: Atlanta, GA | Section B Required Project Information Report To: SCS Contacts Copy To: Geosynlec Contacts |
| Section C Invoice Information Attention: Southern Co Company Name Address Pace Quote Reference: Pace Project Manager Pace Profile #: 10839 | Section D Regulatory Agency <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> CCR Site Location: <u>GA</u> STATE: |

| | |
|--|--|
| Section A Required Client Information Company: GA Power Address: Atlanta, GA Email To: SCS Contacts Phone: <input type="checkbox"/> Fax Requested Due Date/TAT: 48 hr | Section B Required Project Information Report To: SCS Contacts Copy To: Geosynlec Contacts Purchase Order No. Project Name: Hammond AP-1 Project Number |
| Section C Invoice Information Attention: Southern Co Company Name Address Pace Quote Reference: Pace Project Manager Pace Profile #: 10839 | Section D Regulatory Agency <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> CCR Site Location: <u>GA</u> STATE: |

| ITEM # | Section D Required Client Information | Valid Matrix Codes <small> Drinking Water WASTE WATER WASTE WATER PRODUCT SOLID/LIQUID OIL WIPES AIR OTHER TISSUE </small> | Section C CODE | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | Analysis Test | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Pace Project No./ Lab ID. |
|--------|--|---|-------------------|------------|------|---------------------------|-----------------|--|----------------------------------|-----------------------------------|-------------------------|---------------------------|
| | | | | DATE | TIME | | | | | | | |
| 1 | HAM-PT-09 | | WG G | 10/03/2023 | 1935 | 21 | 2 | Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other | Barium and Molybdenum Sulfate | N N | N | 021 |
| 2 | HAM-PT-10 | | WG G | 10/03/2023 | 1133 | 21 | 2 | | | N N | N | 032 |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |

| | |
|--|--|
| Section A Required Client Information Company: GA Power Address: Atlanta, GA Email To: SCS Contacts Phone: <input type="checkbox"/> Fax Requested Due Date/TAT: 48 hr | Section B Required Project Information Report To: SCS Contacts Copy To: Geosynlec Contacts Purchase Order No. Project Name: Hammond AP-1 Project Number |
| Section C Invoice Information Attention: Southern Co Company Name Address Pace Quote Reference: Pace Project Manager Pace Profile #: 10839 | Section D Regulatory Agency <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> CCR Site Location: <u>GA</u> STATE: |

| | |
|--|--|
| Section A Required Client Information Company: GA Power Address: Atlanta, GA Email To: SCS Contacts Phone: <input type="checkbox"/> Fax Requested Due Date/TAT: 48 hr | Section B Required Project Information Report To: SCS Contacts Copy To: Geosynlec Contacts Purchase Order No. Project Name: Hammond AP-1 Project Number |
| Section C Invoice Information Attention: Southern Co Company Name Address Pace Quote Reference: Pace Project Manager Pace Profile #: 10839 | Section D Regulatory Agency <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> CCR Site Location: <u>GA</u> STATE: |



October 18, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1 CA Week 1
Pace Project No.: 92692726

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on October 11, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Hammond AP-1 CA Week 1
Pace Project No.: 92692726

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------|--------|----------------|----------------|
| 92692726001 | HAM-PT-09 | Water | 10/10/23 11:35 | 10/11/23 13:25 |
| 92692726002 | HAM-PT-10 | Water | 10/10/23 13:39 | 10/11/23 13:25 |
| 92692726003 | HAM-AP1-EB-01 | Water | 10/10/23 14:05 | 10/11/23 13:25 |
| 92692726004 | HAM-AP1-FB-01 | Water | 10/10/23 14:00 | 10/11/23 13:25 |
| 92692726005 | HAM-AP1-FD-01 | Water | 10/10/23 00:00 | 10/11/23 13:25 |

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------|------------------------|----------|-------------------|
| 92692726001 | HAM-PT-09 | EPA 6010D | DRB | 5 |
| | | EPA 6020B | CW1 | 14 |
| | | EPA 7470A | VB | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 2540C-2015 | RVS | 1 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92692726002 | HAM-PT-10 | EPA 6010D | DRB | 5 |
| | | EPA 6020B | CW1 | 14 |
| | | EPA 7470A | VB | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 2540C-2015 | RVS | 1 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92692726003 | HAM-AP1-EB-01 | EPA 6010D | DRB | 5 |
| | | EPA 6020B | CW1 | 14 |
| | | EPA 7470A | VB | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 2540C-2015 | RVS | 1 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92692726004 | HAM-AP1-FB-01 | EPA 6010D | DRB | 5 |
| | | EPA 6020B | CW1 | 14 |
| | | EPA 7470A | VB | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 2540C-2015 | RVS | 1 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92692726005 | HAM-AP1-FD-01 | EPA 6010D | DRB | 5 |
| | | EPA 6020B | CW1 | 14 |
| | | EPA 7470A | VB | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 2540C-2015 | RVS | 1 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |

PASI-A = Pace Analytical Services - Asheville

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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SUMMARY OF DETECTION

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|----------|-------|--------------|----------------|------------|
| 92692726001 | HAM-PT-09 | | | | | |
| EPA 6010D | Manganese | 0.030J | mg/L | 0.040 | 10/17/23 14:04 | |
| EPA 6010D | Potassium | 0.69 | mg/L | 0.50 | 10/17/23 14:04 | |
| EPA 6010D | Sodium | 0.69J | mg/L | 1.0 | 10/17/23 14:04 | |
| EPA 6010D | Calcium | 11.0 | mg/L | 1.0 | 10/17/23 14:04 | |
| EPA 6010D | Magnesium | 1.9 | mg/L | 0.050 | 10/17/23 14:04 | |
| EPA 6020B | Antimony | 0.0017J | mg/L | 0.0030 | 10/12/23 16:19 | B |
| EPA 6020B | Barium | 0.063 | mg/L | 0.0050 | 10/12/23 16:19 | |
| EPA 6020B | Boron | 0.61 | mg/L | 0.040 | 10/12/23 16:19 | |
| EPA 6020B | Cobalt | 0.00063J | mg/L | 0.0050 | 10/12/23 16:19 | |
| EPA 6020B | Iron | 0.089 | mg/L | 0.040 | 10/12/23 16:19 | |
| EPA 6020B | Lithium | 0.0012J | mg/L | 0.030 | 10/13/23 13:33 | |
| EPA 6020B | Molybdenum | 0.20 | mg/L | 0.010 | 10/12/23 16:19 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 112 | mg/L | 5.0 | 10/13/23 11:18 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 112 | mg/L | 5.0 | 10/13/23 11:18 | |
| SM 2540C-2015 | Total Dissolved Solids | 257 | mg/L | 25.0 | 10/12/23 23:56 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 13.0 | mg/L | 1.0 | 10/12/23 22:08 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.38 | mg/L | 0.10 | 10/12/23 22:08 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 71.6 | mg/L | 1.0 | 10/12/23 22:08 | |
| 92692726002 | HAM-PT-10 | | | | | |
| EPA 6010D | Manganese | 1.6 | mg/L | 0.20 | 10/17/23 14:14 | |
| EPA 6010D | Potassium | 6.1 | mg/L | 2.5 | 10/17/23 14:14 | M1 |
| EPA 6010D | Sodium | 8.4 | mg/L | 5.0 | 10/17/23 14:14 | M1 |
| EPA 6010D | Calcium | 125 | mg/L | 5.0 | 10/17/23 14:14 | M1 |
| EPA 6010D | Magnesium | 16.7 | mg/L | 0.25 | 10/17/23 14:14 | |
| EPA 6020B | Barium | 0.076 | mg/L | 0.0050 | 10/12/23 16:35 | |
| EPA 6020B | Boron | 1.7 | mg/L | 0.040 | 10/12/23 16:35 | |
| EPA 6020B | Cobalt | 0.0022J | mg/L | 0.0050 | 10/12/23 16:35 | |
| EPA 6020B | Iron | 1.6 | mg/L | 0.040 | 10/12/23 16:35 | |
| EPA 6020B | Molybdenum | 0.18 | mg/L | 0.010 | 10/12/23 16:35 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 166 | mg/L | 5.0 | 10/13/23 11:27 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 166 | mg/L | 5.0 | 10/13/23 11:27 | |
| SM 2540C-2015 | Total Dissolved Solids | 597 | mg/L | 25.0 | 10/12/23 23:56 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 46.1 | mg/L | 1.0 | 10/12/23 22:22 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.30 | mg/L | 0.10 | 10/12/23 22:22 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 184 | mg/L | 4.0 | 10/13/23 00:29 | |
| 92692726003 | HAM-AP1-EB-01 | | | | | |
| EPA 6020B | Boron | 0.011J | mg/L | 0.040 | 10/12/23 16:43 | |
| 92692726004 | HAM-AP1-FB-01 | | | | | |
| EPA 6020B | Boron | 0.0094J | mg/L | 0.040 | 10/12/23 16:47 | |
| 92692726005 | HAM-AP1-FD-01 | | | | | |
| EPA 6010D | Manganese | 0.15J | mg/L | 0.20 | 10/17/23 15:00 | |
| EPA 6010D | Potassium | 4.1 | mg/L | 2.5 | 10/17/23 15:00 | |
| EPA 6010D | Sodium | 3.7J | mg/L | 5.0 | 10/17/23 15:00 | |
| EPA 6010D | Calcium | 55.9 | mg/L | 5.0 | 10/17/23 15:00 | |
| EPA 6010D | Magnesium | 9.8 | mg/L | 0.25 | 10/17/23 15:00 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|----------|-------|--------------|----------------|------------|
| 92692726005 | HAM-AP1-FD-01 | | | | | |
| EPA 6020B | Barium | 0.067 | mg/L | 0.0050 | 10/12/23 17:09 | |
| EPA 6020B | Boron | 0.60 | mg/L | 0.040 | 10/12/23 17:09 | |
| EPA 6020B | Cadmium | 0.00012J | mg/L | 0.00050 | 10/12/23 17:09 | |
| EPA 6020B | Cobalt | 0.00064J | mg/L | 0.0050 | 10/12/23 17:09 | |
| EPA 6020B | Iron | 0.091 | mg/L | 0.040 | 10/12/23 17:09 | |
| EPA 6020B | Molybdenum | 0.21 | mg/L | 0.010 | 10/12/23 17:09 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 110 | mg/L | 5.0 | 10/13/23 11:46 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 110 | mg/L | 5.0 | 10/13/23 11:46 | |
| SM 2540C-2015 | Total Dissolved Solids | 255 | mg/L | 25.0 | 10/12/23 23:59 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 13.0 | mg/L | 1.0 | 10/12/23 23:32 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.38 | mg/L | 0.10 | 10/12/23 23:32 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 71.5 | mg/L | 1.0 | 10/12/23 23:32 | M1 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

| Sample: HAM-PT-09 | | Lab ID: 92692726001 | | Collected: 10/10/23 11:35 | | Received: 10/11/23 13:25 | | Matrix: Water | |
|--|----------|---------------------|---------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Manganese | 0.030J | mg/L | 0.040 | 0.011 | 1 | 10/12/23 11:13 | 10/17/23 14:04 | 7439-96-5 | |
| Potassium | 0.69 | mg/L | 0.50 | 0.15 | 1 | 10/12/23 11:13 | 10/17/23 14:04 | 7440-09-7 | |
| Sodium | 0.69J | mg/L | 1.0 | 0.58 | 1 | 10/12/23 11:13 | 10/17/23 14:04 | 7440-23-5 | |
| Calcium | 11.0 | mg/L | 1.0 | 0.12 | 1 | 10/12/23 11:13 | 10/17/23 14:04 | 7440-70-2 | |
| Magnesium | 1.9 | mg/L | 0.050 | 0.012 | 1 | 10/12/23 11:13 | 10/17/23 14:04 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | 0.0017J | mg/L | 0.0030 | 0.0012 | 1 | 10/12/23 09:39 | 10/12/23 16:19 | 7440-36-0 | B |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 10/12/23 09:39 | 10/12/23 16:19 | 7440-38-2 | |
| Barium | 0.063 | mg/L | 0.0050 | 0.00067 | 1 | 10/12/23 09:39 | 10/12/23 16:19 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 10/12/23 09:39 | 10/12/23 16:19 | 7440-41-7 | |
| Boron | 0.61 | mg/L | 0.040 | 0.0086 | 1 | 10/12/23 09:39 | 10/12/23 16:19 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 10/12/23 09:39 | 10/12/23 16:19 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 10/12/23 09:39 | 10/12/23 16:19 | 7440-47-3 | |
| Cobalt | 0.00063J | mg/L | 0.0050 | 0.00039 | 1 | 10/12/23 09:39 | 10/12/23 16:19 | 7440-48-4 | |
| Iron | 0.089 | mg/L | 0.040 | 0.030 | 1 | 10/12/23 09:39 | 10/12/23 16:19 | 7439-89-6 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 10/12/23 09:39 | 10/12/23 16:19 | 7439-92-1 | |
| Lithium | 0.0012J | mg/L | 0.030 | 0.00073 | 1 | 10/12/23 09:39 | 10/13/23 13:33 | 7439-93-2 | |
| Molybdenum | 0.20 | mg/L | 0.010 | 0.00074 | 1 | 10/12/23 09:39 | 10/12/23 16:19 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 10/12/23 09:39 | 10/12/23 16:19 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 10/12/23 09:39 | 10/12/23 16:19 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 10/12/23 14:25 | 10/12/23 17:55 | 7439-97-6 | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 112 | mg/L | 5.0 | 5.0 | 1 | | 10/13/23 11:18 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 10/13/23 11:18 | | |
| Alkalinity, Total as CaCO3 | 112 | mg/L | 5.0 | 5.0 | 1 | | 10/13/23 11:18 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 257 | mg/L | 25.0 | 25.0 | 1 | | 10/12/23 23:56 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 10/13/23 03:00 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 13.0 | mg/L | 1.0 | 0.60 | 1 | | 10/12/23 22:08 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

Sample: HAM-PT-09 Lab ID: 92692726001 Collected: 10/10/23 11:35 Received: 10/11/23 13:25 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.38 | mg/L | 0.10 | 0.050 | 1 | | 10/12/23 22:08 | 16984-48-8 | |
| Sulfate | 71.6 | mg/L | 1.0 | 0.50 | 1 | | 10/12/23 22:08 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

| Sample: HAM-PT-10 | | Lab ID: 92692726002 | | Collected: 10/10/23 13:39 | | Received: 10/11/23 13:25 | | Matrix: Water | |
|-------------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Manganese | 1.6 | mg/L | 0.20 | 0.056 | 5 | 10/12/23 11:13 | 10/17/23 14:14 | 7439-96-5 | |
| Potassium | 6.1 | mg/L | 2.5 | 0.76 | 5 | 10/12/23 11:13 | 10/17/23 14:14 | 7440-09-7 | M1 |
| Sodium | 8.4 | mg/L | 5.0 | 2.9 | 5 | 10/12/23 11:13 | 10/17/23 14:14 | 7440-23-5 | M1 |
| Calcium | 125 | mg/L | 5.0 | 0.61 | 5 | 10/12/23 11:13 | 10/17/23 14:14 | 7440-70-2 | M1 |
| Magnesium | 16.7 | mg/L | 0.25 | 0.059 | 5 | 10/12/23 11:13 | 10/17/23 14:14 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 10/12/23 09:39 | 10/12/23 16:35 | 7440-36-0 | B |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 10/12/23 09:39 | 10/12/23 16:35 | 7440-38-2 | |
| Barium | 0.076 | mg/L | 0.0050 | 0.00067 | 1 | 10/12/23 09:39 | 10/12/23 16:35 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 10/12/23 09:39 | 10/12/23 16:35 | 7440-41-7 | |
| Boron | 1.7 | mg/L | 0.040 | 0.0086 | 1 | 10/12/23 09:39 | 10/12/23 16:35 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 10/12/23 09:39 | 10/12/23 16:35 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 10/12/23 09:39 | 10/12/23 16:35 | 7440-47-3 | |
| Cobalt | 0.0022J | mg/L | 0.0050 | 0.00039 | 1 | 10/12/23 09:39 | 10/12/23 16:35 | 7440-48-4 | |
| Iron | 1.6 | mg/L | 0.040 | 0.030 | 1 | 10/12/23 09:39 | 10/12/23 16:35 | 7439-89-6 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 10/12/23 09:39 | 10/12/23 16:35 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.30 | 0.0073 | 10 | 10/12/23 09:39 | 10/13/23 14:53 | 7439-93-2 | D3 |
| Molybdenum | 0.18 | mg/L | 0.010 | 0.00074 | 1 | 10/12/23 09:39 | 10/12/23 16:35 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 10/12/23 09:39 | 10/12/23 16:35 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 10/12/23 09:39 | 10/12/23 16:35 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 10/12/23 14:25 | 10/12/23 17:58 | 7439-97-6 | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 166 | mg/L | 5.0 | 5.0 | 1 | | 10/13/23 11:27 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 10/13/23 11:27 | | |
| Alkalinity, Total as CaCO3 | 166 | mg/L | 5.0 | 5.0 | 1 | | 10/13/23 11:27 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville | | | | | | | |
| Total Dissolved Solids | 597 | mg/L | 25.0 | 25.0 | 1 | | 10/12/23 23:56 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 10/13/23 03:00 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 46.1 | mg/L | 1.0 | 0.60 | 1 | | 10/12/23 22:22 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

Sample: HAM-PT-10 Lab ID: 92692726002 Collected: 10/10/23 13:39 Received: 10/11/23 13:25 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days
 Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.30 | mg/L | 0.10 | 0.050 | 1 | | 10/12/23 22:22 | 16984-48-8 | |
| Sulfate | 184 | mg/L | 4.0 | 2.0 | 4 | | 10/13/23 00:29 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

| Sample: HAM-AP1-EB-01 | Lab ID: 92692726003 | Collected: 10/10/23 14:05 | Received: 10/11/23 13:25 | Matrix: Water | | | | | |
|--|---------------------|---------------------------|--------------------------|---------------|----|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 10/12/23 11:13 | 10/17/23 14:50 | 7439-96-5 | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 10/12/23 11:13 | 10/17/23 14:50 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 10/12/23 11:13 | 10/17/23 14:50 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 10/12/23 11:13 | 10/17/23 14:50 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 10/12/23 11:13 | 10/17/23 14:50 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 10/12/23 09:39 | 10/12/23 16:43 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 10/12/23 09:39 | 10/12/23 16:43 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00067 | 1 | 10/12/23 09:39 | 10/12/23 16:43 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 10/12/23 09:39 | 10/12/23 16:43 | 7440-41-7 | |
| Boron | 0.011J | mg/L | 0.040 | 0.0086 | 1 | 10/12/23 09:39 | 10/12/23 16:43 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 10/12/23 09:39 | 10/12/23 16:43 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 10/12/23 09:39 | 10/12/23 16:43 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 10/12/23 09:39 | 10/12/23 16:43 | 7440-48-4 | |
| Iron | ND | mg/L | 0.040 | 0.030 | 1 | 10/12/23 09:39 | 10/12/23 16:43 | 7439-89-6 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 10/12/23 09:39 | 10/12/23 16:43 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 10/12/23 09:39 | 10/13/23 13:50 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 10/12/23 09:39 | 10/12/23 16:43 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 10/12/23 09:39 | 10/12/23 16:43 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 10/12/23 09:39 | 10/12/23 16:43 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 10/12/23 14:25 | 10/12/23 18:13 | 7439-97-6 | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 10/13/23 11:38 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 10/13/23 11:38 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 10/13/23 11:38 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 10/12/23 23:56 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 10/13/23 03:00 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 10/12/23 22:36 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

Sample: HAM-AP1-EB-01 Lab ID: 92692726003 Collected: 10/10/23 14:05 Received: 10/11/23 13:25 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|----|------|------|-------|---|--|----------------|------------|--|
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 10/12/23 22:36 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 10/12/23 22:36 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

Sample: HAM-AP1-FB-01 **Lab ID: 92692726004** Collected: 10/10/23 14:00 Received: 10/11/23 13:25 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---|----------------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 10/12/23 11:13 | 10/17/23 14:55 | 7439-96-5 | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 10/12/23 11:13 | 10/17/23 14:55 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 10/12/23 11:13 | 10/17/23 14:55 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 10/12/23 11:13 | 10/17/23 14:55 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 10/12/23 11:13 | 10/17/23 14:55 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 10/12/23 09:39 | 10/12/23 16:47 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 10/12/23 09:39 | 10/12/23 16:47 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00067 | 1 | 10/12/23 09:39 | 10/12/23 16:47 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 10/12/23 09:39 | 10/12/23 16:47 | 7440-41-7 | |
| Boron | 0.0094J | mg/L | 0.040 | 0.0086 | 1 | 10/12/23 09:39 | 10/12/23 16:47 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 10/12/23 09:39 | 10/12/23 16:47 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 10/12/23 09:39 | 10/12/23 16:47 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 10/12/23 09:39 | 10/12/23 16:47 | 7440-48-4 | |
| Iron | ND | mg/L | 0.040 | 0.030 | 1 | 10/12/23 09:39 | 10/12/23 16:47 | 7439-89-6 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 10/12/23 09:39 | 10/12/23 16:47 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 10/12/23 09:39 | 10/13/23 13:54 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 10/12/23 09:39 | 10/12/23 16:47 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 10/12/23 09:39 | 10/12/23 16:47 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 10/12/23 09:39 | 10/12/23 16:47 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 10/12/23 14:25 | 10/12/23 18:16 | 7439-97-6 | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 10/13/23 11:42 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 10/13/23 11:42 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 10/13/23 11:42 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 10/12/23 23:59 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 10/13/23 03:01 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 10/12/23 23:18 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

Sample: HAM-AP1-FB-01 Lab ID: 92692726004 Collected: 10/10/23 14:00 Received: 10/11/23 13:25 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|----|------|------|-------|---|--|----------------|------------|--|
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 10/12/23 23:18 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 10/12/23 23:18 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

Sample: HAM-AP1-FD-01 **Lab ID:** 92692726005 Collected: 10/10/23 00:00 Received: 10/11/23 13:25 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---|----------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Manganese | 0.15J | mg/L | 0.20 | 0.056 | 5 | 10/12/23 11:13 | 10/17/23 15:00 | 7439-96-5 | |
| Potassium | 4.1 | mg/L | 2.5 | 0.76 | 5 | 10/12/23 11:13 | 10/17/23 15:00 | 7440-09-7 | |
| Sodium | 3.7J | mg/L | 5.0 | 2.9 | 5 | 10/12/23 11:13 | 10/17/23 15:00 | 7440-23-5 | |
| Calcium | 55.9 | mg/L | 5.0 | 0.61 | 5 | 10/12/23 11:13 | 10/17/23 15:00 | 7440-70-2 | |
| Magnesium | 9.8 | mg/L | 0.25 | 0.059 | 5 | 10/12/23 11:13 | 10/17/23 15:00 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 10/12/23 09:39 | 10/12/23 17:09 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.0037 | 1 | 10/12/23 09:39 | 10/12/23 17:09 | 7440-38-2 | |
| Barium | 0.067 | mg/L | 0.0050 | 0.00067 | 1 | 10/12/23 09:39 | 10/12/23 17:09 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 10/12/23 09:39 | 10/12/23 17:09 | 7440-41-7 | |
| Boron | 0.60 | mg/L | 0.040 | 0.0086 | 1 | 10/12/23 09:39 | 10/12/23 17:09 | 7440-42-8 | |
| Cadmium | 0.00012J | mg/L | 0.00050 | 0.00011 | 1 | 10/12/23 09:39 | 10/12/23 17:09 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 10/12/23 09:39 | 10/12/23 17:09 | 7440-47-3 | |
| Cobalt | 0.00064J | mg/L | 0.0050 | 0.00039 | 1 | 10/12/23 09:39 | 10/12/23 17:09 | 7440-48-4 | |
| Iron | 0.091 | mg/L | 0.040 | 0.030 | 1 | 10/12/23 09:39 | 10/12/23 17:09 | 7439-89-6 | |
| Lead | ND | mg/L | 0.0010 | 0.00012 | 1 | 10/12/23 09:39 | 10/12/23 17:09 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.15 | 0.0036 | 5 | 10/12/23 09:39 | 10/13/23 14:34 | 7439-93-2 | D3 |
| Molybdenum | 0.21 | mg/L | 0.010 | 0.00074 | 1 | 10/12/23 09:39 | 10/12/23 17:09 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 10/12/23 09:39 | 10/12/23 17:09 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 10/12/23 09:39 | 10/12/23 17:09 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 10/12/23 14:25 | 10/12/23 18:19 | 7439-97-6 | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 110 | mg/L | 5.0 | 5.0 | 1 | | 10/13/23 11:46 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 10/13/23 11:46 | | |
| Alkalinity, Total as CaCO3 | 110 | mg/L | 5.0 | 5.0 | 1 | | 10/13/23 11:46 | | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Total Dissolved Solids | 255 | mg/L | 25.0 | 25.0 | 1 | | 10/12/23 23:59 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 10/13/23 03:01 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 13.0 | mg/L | 1.0 | 0.60 | 1 | | 10/12/23 23:32 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

Sample: HAM-AP1-FD-01 Lab ID: 92692726005 Collected: 10/10/23 00:00 Received: 10/11/23 13:25 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|----|
| Fluoride | 0.38 | mg/L | 0.10 | 0.050 | 1 | | 10/12/23 23:32 | 16984-48-8 | |
| Sulfate | 71.5 | mg/L | 1.0 | 0.50 | 1 | | 10/12/23 23:32 | 14808-79-8 | M1 |

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QUALITY CONTROL DATA

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 805851 | Analysis Method: | EPA 6010D |
| QC Batch Method: | EPA 3010A | Analysis Description: | 6010D ATL |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92692726001, 92692726002, 92692726003, 92692726004, 92692726005

METHOD BLANK: 4172912 Matrix: Water
 Associated Lab Samples: 92692726001, 92692726002, 92692726003, 92692726004, 92692726005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 10/17/23 13:53 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 10/17/23 13:53 | |
| Manganese | mg/L | ND | 0.040 | 0.011 | 10/17/23 13:53 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 10/17/23 13:53 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 10/17/23 13:53 | |

LABORATORY CONTROL SAMPLE: 4172913

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 1 | 0.98J | 98 | 80-120 | |
| Magnesium | mg/L | 1 | 1.0 | 102 | 80-120 | |
| Manganese | mg/L | 1 | 1.0 | 101 | 80-120 | |
| Potassium | mg/L | 1 | 0.99 | 99 | 80-120 | |
| Sodium | mg/L | 1 | 1.1 | 105 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4172914 4172915

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92692726002 Result | Spike Conc. | Spike Conc. | Conc. | | | | | | | | |
| Calcium | mg/L | 125 | 1 | 1 | 123 | 126 | -143 | 78 | 75-125 | 2 | 20 | M1 | |
| Magnesium | mg/L | 16.7 | 1 | 1 | 17.5 | 17.9 | 78 | 116 | 75-125 | 2 | 20 | | |
| Manganese | mg/L | 1.6 | 1 | 1 | 2.6 | 2.6 | 95 | 97 | 75-125 | 1 | 20 | | |
| Potassium | mg/L | 6.1 | 1 | 1 | 7.1 | 8.3 | 97 | 213 | 75-125 | 15 | 20 | M1 | |
| Sodium | mg/L | 8.4 | 1 | 1 | 9.5 | 10 | 107 | 157 | 75-125 | 5 | 20 | M1 | |

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

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QUALITY CONTROL DATA

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 805814 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6020 MET |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92692726001, 92692726002, 92692726003, 92692726004, 92692726005

METHOD BLANK: 4172758 Matrix: Water

Associated Lab Samples: 92692726001, 92692726002, 92692726003, 92692726004, 92692726005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | 0.0025J | 0.0030 | 0.0012 | 10/13/23 13:25 | |
| Arsenic | mg/L | ND | 0.010 | 0.0037 | 10/12/23 16:11 | |
| Barium | mg/L | ND | 0.0050 | 0.00067 | 10/12/23 16:11 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000054 | 10/12/23 16:11 | |
| Boron | mg/L | ND | 0.040 | 0.0086 | 10/12/23 16:11 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00011 | 10/12/23 16:11 | |
| Chromium | mg/L | ND | 0.0050 | 0.0011 | 10/12/23 16:11 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00039 | 10/12/23 16:11 | |
| Iron | mg/L | ND | 0.040 | 0.030 | 10/12/23 16:11 | |
| Lead | mg/L | ND | 0.0010 | 0.00012 | 10/12/23 16:11 | |
| Lithium | mg/L | ND | 0.030 | 0.00073 | 10/13/23 13:25 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00074 | 10/12/23 16:11 | |
| Selenium | mg/L | ND | 0.0050 | 0.0014 | 10/12/23 16:11 | |
| Thallium | mg/L | ND | 0.0010 | 0.00018 | 10/12/23 16:11 | |

LABORATORY CONTROL SAMPLE: 4172759

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Boron | mg/L | 1 | 0.99 | 99 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.097 | 97 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Iron | mg/L | 1 | 0.98 | 98 | 80-120 | |
| Lead | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

| Parameter | Units | 4172760 | | 4172761 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 92692726001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Antimony | mg/L | 0.0017J | 0.1 | 0.1 | 0.10 | 0.10 | 103 | 102 | 75-125 | 1 | 20 | | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 101 | 75-125 | 0 | 20 | | |
| Barium | mg/L | 0.063 | 0.1 | 0.1 | 0.17 | 0.17 | 107 | 104 | 75-125 | 1 | 20 | | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.093 | 0.093 | 93 | 93 | 75-125 | 0 | 20 | | |
| Boron | mg/L | 0.61 | 1 | 1 | 1.6 | 1.6 | 97 | 99 | 75-125 | 2 | 20 | | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 102 | 75-125 | 0 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 101 | 75-125 | 1 | 20 | | |
| Cobalt | mg/L | 0.00063J | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 101 | 75-125 | 1 | 20 | | |
| Iron | mg/L | 0.089 | 1 | 1 | 1.1 | 1.1 | 102 | 101 | 75-125 | 1 | 20 | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.099 | 99 | 99 | 75-125 | 0 | 20 | | |
| Lithium | mg/L | 0.0012J | 0.1 | 0.1 | 0.095 | 0.093 | 93 | 92 | 75-125 | 1 | 20 | | |
| Molybdenum | mg/L | 0.20 | 0.1 | 0.1 | 0.31 | 0.30 | 110 | 108 | 75-125 | 1 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 100 | 102 | 75-125 | 2 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.099 | 100 | 99 | 75-125 | 1 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 805935 | Analysis Method: | EPA 7470A |
| QC Batch Method: | EPA 7470A | Analysis Description: | 7470 Mercury |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92692726001, 92692726002, 92692726003, 92692726004, 92692726005

METHOD BLANK: 4173569 Matrix: Water
 Associated Lab Samples: 92692726001, 92692726002, 92692726003, 92692726004, 92692726005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00020 | 0.00013 | 10/12/23 17:50 | |

LABORATORY CONTROL SAMPLE: 4173570

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0022 | 86 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4173571 4173572

| Parameter | Units | 4173571 | | 4173572 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Mercury | mg/L | ND | 0.0025 | 0.0023 | 0.0022 | 88 | 83 | 75-125 | 5 | 20 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

QC Batch: 806016 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92692726001, 92692726002, 92692726003, 92692726004, 92692726005

METHOD BLANK: 4174178 Matrix: Water
 Associated Lab Samples: 92692726001, 92692726002, 92692726003, 92692726004, 92692726005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 10/13/23 10:59 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 10/13/23 10:59 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 10/13/23 10:59 | |

LABORATORY CONTROL SAMPLE: 4174179

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.8 | 106 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4174180

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 51.1 | 102 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4174181 4174182

| Parameter | Units | 92692080023 | | 4174181 | | 4174182 | | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------|----------------|-----------------|-----------|------------|----------|--------------|--------|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 17.7 | 50 | 50 | 71.6 | 71.6 | 108 | 108 | 80-120 | 0 | 25 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4174183 4174184

| Parameter | Units | 92692080024 | | 4174183 | | 4174184 | | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------|----------------|-----------------|-----------|------------|----------|--------------|--------|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 10.2 | 50 | 50 | 63.6 | 63.1 | 107 | 106 | 80-120 | 1 | 25 |

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QUALITY CONTROL DATA

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

| | | | |
|------------------|---------------|-----------------------|--------------------------------------|
| QC Batch: | 806055 | Analysis Method: | SM 2540C-2015 |
| QC Batch Method: | SM 2540C-2015 | Analysis Description: | 2540C Total Dissolved Solids |
| | | Laboratory: | Pace Analytical Services - Asheville |

Associated Lab Samples: 92692726001, 92692726002, 92692726003, 92692726004, 92692726005

METHOD BLANK: 4174305 Matrix: Water
 Associated Lab Samples: 92692726001, 92692726002, 92692726003, 92692726004, 92692726005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 10/12/23 23:56 | |

LABORATORY CONTROL SAMPLE: 4174306

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 250 | 252 | 101 | 90-110 | |

SAMPLE DUPLICATE: 4174307

| Parameter | Units | 92692726001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 257 | 263 | 2 | 25 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

QC Batch: 806052 Analysis Method: SM 4500-S2D-2011
 QC Batch Method: SM 4500-S2D-2011 Analysis Description: 4500S2D Sulfide Water
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92692726001, 92692726002, 92692726003, 92692726004, 92692726005

METHOD BLANK: 4174295 Matrix: Water
 Associated Lab Samples: 92692726001, 92692726002, 92692726003, 92692726004, 92692726005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide | mg/L | ND | 0.10 | 0.022 | 10/13/23 02:58 | |

LABORATORY CONTROL SAMPLE: 4174296

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide | mg/L | 0.5 | 0.52 | 103 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4174297 4174298

| Parameter | Units | 92692818001 Result | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | | Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.53 | 0.53 | 104 | 104 | 80-120 | 0 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4174299 4174300

| Parameter | Units | 92692818002 Result | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | | Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.53 | 0.53 | 105 | 106 | 80-120 | 1 | 10 | |

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

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QUALITY CONTROL DATA

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

QC Batch: 806014 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92692726001, 92692726002, 92692726003, 92692726004, 92692726005

METHOD BLANK: 4174170 Matrix: Water
 Associated Lab Samples: 92692726001, 92692726002, 92692726003, 92692726004, 92692726005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 10/12/23 20:30 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 10/12/23 20:30 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 10/12/23 20:30 | |

LABORATORY CONTROL SAMPLE: 4174171

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 51.4 | 103 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.6 | 104 | 90-110 | |
| Sulfate | mg/L | 50 | 51.6 | 103 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4174172 4174173

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92692726005 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Chloride | mg/L | 13.0 | 50 | 50 | 63.1 | 64.9 | 100 | 104 | 90-110 | 3 | 10 | | |
| Fluoride | mg/L | 0.38 | 2.5 | 2.5 | 2.8 | 2.9 | 97 | 100 | 90-110 | 3 | 10 | | |
| Sulfate | mg/L | 71.5 | 50 | 50 | 113 | 114 | 83 | 85 | 90-110 | 1 | 10 | M1 | |

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QUALIFIERS

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 CA Week 1

Pace Project No.: 92692726

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|------------------------|----------|-------------------|------------------|
| 92692726001 | HAM-PT-09 | EPA 3010A | 805851 | EPA 6010D | 805946 |
| 92692726002 | HAM-PT-10 | EPA 3010A | 805851 | EPA 6010D | 805946 |
| 92692726003 | HAM-AP1-EB-01 | EPA 3010A | 805851 | EPA 6010D | 805946 |
| 92692726004 | HAM-AP1-FB-01 | EPA 3010A | 805851 | EPA 6010D | 805946 |
| 92692726005 | HAM-AP1-FD-01 | EPA 3010A | 805851 | EPA 6010D | 805946 |
| 92692726001 | HAM-PT-09 | EPA 3005A | 805814 | EPA 6020B | 805919 |
| 92692726002 | HAM-PT-10 | EPA 3005A | 805814 | EPA 6020B | 805919 |
| 92692726003 | HAM-AP1-EB-01 | EPA 3005A | 805814 | EPA 6020B | 805919 |
| 92692726004 | HAM-AP1-FB-01 | EPA 3005A | 805814 | EPA 6020B | 805919 |
| 92692726005 | HAM-AP1-FD-01 | EPA 3005A | 805814 | EPA 6020B | 805919 |
| 92692726001 | HAM-PT-09 | EPA 7470A | 805935 | EPA 7470A | 805958 |
| 92692726002 | HAM-PT-10 | EPA 7470A | 805935 | EPA 7470A | 805958 |
| 92692726003 | HAM-AP1-EB-01 | EPA 7470A | 805935 | EPA 7470A | 805958 |
| 92692726004 | HAM-AP1-FB-01 | EPA 7470A | 805935 | EPA 7470A | 805958 |
| 92692726005 | HAM-AP1-FD-01 | EPA 7470A | 805935 | EPA 7470A | 805958 |
| 92692726001 | HAM-PT-09 | SM 2320B-2011 | 806016 | | |
| 92692726002 | HAM-PT-10 | SM 2320B-2011 | 806016 | | |
| 92692726003 | HAM-AP1-EB-01 | SM 2320B-2011 | 806016 | | |
| 92692726004 | HAM-AP1-FB-01 | SM 2320B-2011 | 806016 | | |
| 92692726005 | HAM-AP1-FD-01 | SM 2320B-2011 | 806016 | | |
| 92692726001 | HAM-PT-09 | SM 2540C-2015 | 806055 | | |
| 92692726002 | HAM-PT-10 | SM 2540C-2015 | 806055 | | |
| 92692726003 | HAM-AP1-EB-01 | SM 2540C-2015 | 806055 | | |
| 92692726004 | HAM-AP1-FB-01 | SM 2540C-2015 | 806055 | | |
| 92692726005 | HAM-AP1-FD-01 | SM 2540C-2015 | 806055 | | |
| 92692726001 | HAM-PT-09 | SM 4500-S2D-2011 | 806052 | | |
| 92692726002 | HAM-PT-10 | SM 4500-S2D-2011 | 806052 | | |
| 92692726003 | HAM-AP1-EB-01 | SM 4500-S2D-2011 | 806052 | | |
| 92692726004 | HAM-AP1-FB-01 | SM 4500-S2D-2011 | 806052 | | |
| 92692726005 | HAM-AP1-FD-01 | SM 4500-S2D-2011 | 806052 | | |
| 92692726001 | HAM-PT-09 | EPA 300.0 Rev 2.1 1993 | 806014 | | |
| 92692726002 | HAM-PT-10 | EPA 300.0 Rev 2.1 1993 | 806014 | | |
| 92692726003 | HAM-AP1-EB-01 | EPA 300.0 Rev 2.1 1993 | 806014 | | |
| 92692726004 | HAM-AP1-FB-01 | EPA 300.0 Rev 2.1 1993 | 806014 | | |
| 92692726005 | HAM-AP1-FD-01 | EPA 300.0 Rev 2.1 1993 | 806014 | | |

REPORT OF LABORATORY ANALYSIS

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Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: G-A Powe

Project #:

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 10-11-23 AK

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 083 Type of Ice: Wet Blue None

Cooler Temp: 5.6 Correction Factor: Add/Subtract (°C) 0-0

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 5.6

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | | Comments/Discrepancy: |
|---|--|--|-----------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | | 3. |
| Rush Turn Around Time Requested? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 7. |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | | 8. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 9. |
| -Includes Date/Time/ID/Analysis Matrix: | <u>WA</u> | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | 11. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic Zn Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGfU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|
| 1 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).



October 19, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92693737

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on October 17, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-1

Pace Project No.: 92693737

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92693737

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 92693737001 | HAM-PT-07 | Water | 10/15/23 09:25 | 10/17/23 12:14 |
| 92693737002 | HAM-PT-08 | Water | 10/15/23 10:22 | 10/17/23 12:14 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92693737

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-----------|------------------------|----------|-------------------|
| 92693737001 | HAM-PT-07 | EPA 6020B | CW1 | 2 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 |
| 92693737002 | HAM-PT-08 | EPA 6020B | CW1 | 2 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 |

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92693737

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|--------|-------|--------------|----------------|------------|
| 92693737001 | HAM-PT-07 | | | | | |
| EPA 6020B | Arsenic | 0.30 | mg/L | 0.10 | 10/18/23 16:08 | |
| EPA 6020B | Iron | 33.5 | mg/L | 0.40 | 10/18/23 16:08 | M1, R1 |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 243 | mg/L | 5.0 | 10/17/23 22:44 | |
| 92693737002 | HAM-PT-08 | | | | | |
| EPA 6020B | Arsenic | 0.25 | mg/L | 0.10 | 10/18/23 16:42 | |
| EPA 6020B | Iron | 60.1 | mg/L | 0.40 | 10/18/23 16:42 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 147 | mg/L | 3.0 | 10/17/23 23:00 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92693737

Sample: HAM-PT-07 Lab ID: 92693737001 Collected: 10/15/23 09:25 Received: 10/17/23 12:14 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------------|-------|----|----------------|----------------|------------|-------|
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Arsenic | 0.30 | mg/L | 0.10 | 0.037 | 10 | 10/18/23 09:36 | 10/18/23 16:08 | 7440-38-2 | |
| Iron | 33.5 | mg/L | 0.40 | 0.30 | 10 | 10/18/23 09:36 | 10/18/23 16:08 | 7439-89-6 | M1,R1 |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfate | 243 | mg/L | 5.0 | 2.5 | 5 | | 10/17/23 22:44 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92693737

| Sample: HAM-PT-08 | | Lab ID: 92693737002 | | Collected: 10/15/23 10:22 | Received: 10/17/23 12:14 | Matrix: Water | | | |
|--------------------------------|-------------|--|--------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Arsenic | 0.25 | mg/L | 0.10 | 0.037 | 10 | 10/18/23 09:36 | 10/18/23 16:42 | 7440-38-2 | |
| Iron | 60.1 | mg/L | 0.40 | 0.30 | 10 | 10/18/23 09:36 | 10/18/23 16:42 | 7439-89-6 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Sulfate | 147 | mg/L | 3.0 | 1.5 | 3 | | 10/17/23 23:00 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92693737

QC Batch: 807198

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92693737001, 92693737002

METHOD BLANK: 4179669

Matrix: Water

Associated Lab Samples: 92693737001, 92693737002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|--------|----------------|------------|
| Arsenic | mg/L | ND | 0.010 | 0.0037 | 10/18/23 15:51 | |
| Iron | mg/L | ND | 0.040 | 0.030 | 10/18/23 15:51 | |

LABORATORY CONTROL SAMPLE: 4179670

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Iron | mg/L | 1 | 1.0 | 102 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4179671 4179672

| Parameter | Units | 92693737001 | | 4179672 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|-----------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Arsenic | mg/L | 0.30 | 0.1 | 0.1 | 0.42 | 0.47 | 120 | 176 | 75-125 | 12 | 20 | M1 | |
| Iron | mg/L | 33.5 | 1 | 1 | 38.2 | 56.4 | 466 | 2280 | 75-125 | 38 | 20 | M1,R1 | |

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92693737

| | | | |
|------------------|------------------------|-----------------------|--------------------------------------|
| QC Batch: | 807098 | Analysis Method: | EPA 300.0 Rev 2.1 1993 |
| QC Batch Method: | EPA 300.0 Rev 2.1 1993 | Analysis Description: | 300.0 IC Anions |
| | | Laboratory: | Pace Analytical Services - Asheville |

Associated Lab Samples: 92693737001, 92693737002

METHOD BLANK: 4179329 Matrix: Water

Associated Lab Samples: 92693737001, 92693737002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Sulfate | mg/L | ND | 1.0 | 0.50 | 10/17/23 21:30 | |

LABORATORY CONTROL SAMPLE: 4179330

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfate | mg/L | 50 | 49.6 | 99 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4179331 4179332

| Parameter | Units | 4179331 | | 4179332 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|-----------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
| | | 92693721008 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | MSD Result |
| Sulfate | mg/L | 2.7 | 50 | 50 | 56.2 | 56.5 | 107 | 108 | 90-110 | 1 | 10 | |

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Hammond AP-1

Pace Project No.: 92693737

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92693737

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|------------------------|----------|-------------------|------------------|
| 92693737001 | HAM-PT-07 | EPA 3005A | 807198 | EPA 6020B | 807293 |
| 92693737002 | HAM-PT-08 | EPA 3005A | 807198 | EPA 6020B | 807293 |
| 92693737001 | HAM-PT-07 | EPA 300.0 Rev 2.1 1993 | 807098 | | |
| 92693737002 | HAM-PT-08 | EPA 300.0 Rev 2.1 1993 | 807098 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Admin Workorder/Login Label Here



Scan QR Code for Instructions

Company Name: GA Power
 Street Address: 241 Ralph McGill Blvd NE, Atlanta, GA 30308
 Contact/Report To: Juriniko, Kristen
 Phone #: 470-217-0008
 E-Mail: kjurink@southemco.com
 CC E-Mail:

Customer Project #: **MS 10112023 Hammond AP-1**
 Project Name: **MS 10112023 Hammond AP-1**
 Site Collection Info/Facility ID (as applicable):
 Invoice #: **GPC 82 474 - 0001**
 Invoice E-Mail:
 Purchase Order # (if applicable):
 Quote #:

Time Zone Collected: AK PT MT CT ET
 Regulatory Program (DW, RCRA, etc.) as applicable: Georgia

Data Deliverables:
 Level II Level III Level IV
 EQUIS
 Other:
 Rush (pre-approval required): 2 Day 3 day 5 day Other **48 hr**
 Date Results Requested:
 Field Filtered (if applicable): Yes No
 Analysis:

Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OU), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SE), Sludge (SL), Cullit

| Customer Sample ID | Matrix * | Comp / Grab | Collected (or Composite Start) Date | Time | Composite End Date | Time | Req. CL2 | Number & Type of Containers | 300.0-F, CL 504 |
|--------------------|----------|-------------|-------------------------------------|------|--------------------|------|----------|-----------------------------|-----------------|
| Extra 1 | WT | | | | | | | | |
| HAM-AP1-EB-01 | WT | | | | | | | | |
| HAM-AP1-FB-01 | WT | | | | | | | | |
| HAM-AP1-FD-01 | WT | | | | | | | | |
| HAM-PT-07 | WT | | | | | | | | |
| HAM-PT-08 | WT | | | | | | | | |
| HAM-PT-09 | WT | | | | | | | | |
| HAM-PT-10 | WT | | | | | | | | |

Customer Remarks / Special Conditions / Possible Hazards:
 Performance Monitoring: B, Sulfate, As, Mo.
 Major Ions: Fe, Mg, Sodium
 MS 10112023
 Task code: HAM-CR-09-20231015

Collected By: **MANASA SADHASIVAN**
 Printed Name:
 Signature: **MANASA**
 Date/Time: **10/17/2023 12:14**
 Received By/Company: (Signature)
 Date/Time:

Delivered by/Company: (Signature) **MANASA**
 Date/Time: **10/17/2023 11:58**
 Tracking Number:
 Delivered by: In-Person Courier FedEx UPS Other
 Page: **1** of **1**

MO#: 92693737
92693737

Additional Instructions from Pace®

Specify Container Size **
 Identify Container Preservation Type***
 Analysis Requested
 *Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL Vial, (7) Enviro, (8) Teracone, (9) Other
 *** Preservation Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) HClO4, (6) Zn Acetate, (7) Malic, (8) Sod. Thiosulfate, (9) Acetic Acid, (10) Meth, (11) Other
 Prof. Mgr:
 Bottle Veng
 Actinum / Client ID:
 Table #: **16483-20**
 Profile / Template:
 Prolab / Bottle Ord. ID:
 1146825
 Sample Comment
 Preservation non-conformance identified for sample.

DC# Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and

Project #

within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LHR

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

PM: BV
Due Date: 10/19/23
CLIENT: 92-GP-HAM

MO#: 92693737

| Item# | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|----|----|----|
| BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | / | / | / | / | / | / | / | / | / | / | / | / |
| BP3U-250 mL Plastic Unpreserved (N/A) | / | / | / | / | / | / | / | / | / | / | / | / |
| BP2U-500 mL Plastic Unpreserved (N/A) | / | / | / | / | / | / | / | / | / | / | / | / |
| BP1U-1 liter Plastic Unpreserved (N/A) | / | / | / | / | / | / | / | / | / | / | / | / |
| BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | / | / | / | / | / | / | / | / | / | / | / | / |
| BP3N-250 mL plastic HNO3 (pH < 2) | / | / | / | / | / | / | / | / | / | / | / | / |
| BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | / | / | / | / | / | / | / | / | / | / | / | / |
| BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | / | / | / | / | / | / | / | / | / | / | / | / |
| WGFLU-Wide-mouthed Glass jar Unpreserved | / | / | / | / | / | / | / | / | / | / | / | / |
| AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | / | / | / | / | / | / | / | / | / | / | / | / |
| AG1H-1 liter Amber HCl (pH < 2) | / | / | / | / | / | / | / | / | / | / | / | / |
| AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | / | / | / | / | / | / | / | / | / | / | / | / |
| AG1S-1 liter Amber H2SO4 (pH < 2) | / | / | / | / | / | / | / | / | / | / | / | / |
| AG3S-250 mL Amber H2SO4 (pH < 2) | / | / | / | / | / | / | / | / | / | / | / | / |
| DG94-40 mL Amber NH4Cl (N/A)(Cl-) | / | / | / | / | / | / | / | / | / | / | / | / |
| DG9H-40 mL VOA HCl (N/A) | / | / | / | / | / | / | / | / | / | / | / | / |
| VG9T-40 mL VOA Na2S2O3 (N/A) | / | / | / | / | / | / | / | / | / | / | / | / |
| VG9U-40 mL VOA Unpreserved (N/A) | / | / | / | / | / | / | / | / | / | / | / | / |
| DG9V-40 mL VOA H3PO4 (N/A) | / | / | / | / | / | / | / | / | / | / | / | / |
| KP7U-50 mL Plastic Unpreserved (N/A) | / | / | / | / | / | / | / | / | / | / | / | / |
| V/GK (3 vials per kit)-VPH/Gas kit (N/A) | / | / | / | / | / | / | / | / | / | / | / | / |
| SP5T-125 mL Sterile Plastic (N/A - lab) | / | / | / | / | / | / | / | / | / | / | / | / |
| SP2T-250 mL Sterile Plastic (N/A - lab) | / | / | / | / | / | / | / | / | / | / | / | / |
| BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | / | / | / | / | / | / | / | / | / | / | / | / |
| AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | / | / | / | / | / | / | / | / | / | / | / | / |
| VSGU-20 mL Scintillation vials (N/A) | / | / | / | / | / | / | / | / | / | / | / | / |
| DG9U-40 mL Amber Unpreserved vials (N/A) | / | / | / | / | / | / | / | / | / | / | / | / |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

- Asheville
- Eden
- Greenwood
- Huntersville
- Raleigh
- Mechanicville
- Atlanta
- Kernersville

Client Name: *GC Power*

Sample Condition
Upon Receipt

Courier: Commercial Fed Ex USPS Other: _____

Client: Client

Custody Seal Present? Yes No

Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Type of Ice: Wet Blue None

Thermometer: IR Gun ID: 714

Cooler Temp: 2.8 Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.8

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Comments/Discrepancy:

| Chain of Custody Present? | Samples Arrived within Hold Time? | Short Hold Time Analysis (<72 hr.)? | Rush Turn Around Time Requested? | Sufficient Volume? | Correct Containers Used? | -Face Containers Used? | Containers Intact? | Dissolved analysis: Samples Field Filtered? | Sample Labels Match COC? | -Includes Date/Time/ID/Analysis Matrix: | Headspace in VOA Vials (>5-6mm)? | Trip Blank Present? | Trip Blank Custody Seals Present? |
|--|--|--|--|--|--|--|--|--|--|---|--|--|--|
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | <i>2</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | | 11. | | |

Field Data Required? Yes No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:

MO#: 92693737

PM: BV Due Date: 10/19/23

CLIENT: 92-GP-HAM

Date/Initials Person Examining Contents: 10-17-23 BC



November 06, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1 Week 2
Pace Project No.: 92694019

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on October 18, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec
Anthony Szwast, Geosyntec Consultants



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1 Week 2
Pace Project No.: 92694019

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------|--------|----------------|----------------|
| 92694019001 | HAM-PT-07 | Water | 10/17/23 13:54 | 10/18/23 12:10 |
| 92694019002 | HAM-PT-08 | Water | 10/17/23 12:05 | 10/18/23 12:10 |
| 92694019003 | HAM-PT-09 | Water | 10/17/23 16:17 | 10/18/23 12:10 |
| 92694019004 | HAM-PT-10 | Water | 10/17/23 14:27 | 10/18/23 12:10 |
| 92694019005 | HAM-AP1-EB-01 | Water | 10/17/23 15:30 | 10/18/23 12:10 |
| 92694019006 | HAM-AP1-FB-01 | Water | 10/17/23 15:25 | 10/18/23 12:10 |
| 92694019007 | HAM-AP1-FD-01 | Water | 10/17/23 00:00 | 10/18/23 12:10 |

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------|------------------------|-----------|-------------------|
| 92694019001 | HAM-PT-07 | EPA 6010D | DRB, EJH1 | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92694019002 | HAM-PT-08 | EPA 6010D | DRB, EJH1 | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92694019003 | HAM-PT-09 | EPA 6020B | CW1 | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 |
| 92694019004 | HAM-PT-10 | EPA 6020B | CW1 | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 |
| 92694019005 | HAM-AP1-EB-01 | EPA 6010D | DRB, EJH1 | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92694019006 | HAM-AP1-FB-01 | EPA 6010D | DRB, EJH1 | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92694019007 | HAM-AP1-FD-01 | EPA 6010D | DRB, EJH1 | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 Week 2
Pace Project No.: 92694019

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|--------|-----------|------------------------|----------|-------------------|
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|----------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92694019001 | HAM-PT-07 | | | | | |
| EPA 6010D | Iron | 18.1 | mg/L | 0.040 | 10/25/23 18:32 | |
| EPA 6010D | Manganese | 5.9 | mg/L | 0.040 | 10/25/23 18:32 | |
| EPA 6010D | Sodium | 6.8 | mg/L | 1.0 | 10/25/23 18:32 | |
| EPA 6010D | Calcium | 151 | mg/L | 1.0 | 10/25/23 18:32 | |
| EPA 6010D | Potassium | 5.5 | mg/L | 0.50 | 10/27/23 17:52 | |
| EPA 6010D | Magnesium | 17.9 | mg/L | 0.050 | 10/27/23 17:52 | |
| EPA 6020B | Arsenic | 0.23 | mg/L | 0.010 | 10/24/23 19:46 | |
| EPA 6020B | Barium | 0.092 | mg/L | 0.0050 | 10/24/23 19:46 | |
| EPA 6020B | Beryllium | 0.00014J | mg/L | 0.00050 | 11/01/23 15:57 | |
| EPA 6020B | Boron | 1.1 | mg/L | 0.040 | 11/01/23 15:57 | |
| EPA 6020B | Cobalt | 0.068 | mg/L | 0.0050 | 10/24/23 19:46 | |
| EPA 6020B | Lead | 0.00029J | mg/L | 0.0010 | 10/24/23 19:46 | |
| EPA 6020B | Lithium | 0.062 | mg/L | 0.030 | 11/01/23 15:57 | |
| EPA 6020B | Molybdenum | 0.011 | mg/L | 0.010 | 10/24/23 19:46 | |
| EPA 6020B | Thallium | 0.00026J | mg/L | 0.0010 | 10/24/23 19:46 | |
| SM 2540C-2015 | Total Dissolved Solids | 677 | mg/L | 25.0 | 10/19/23 17:05 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 120 | mg/L | 5.0 | 10/20/23 21:16 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 120 | mg/L | 5.0 | 10/20/23 21:16 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 15.3 | mg/L | 1.0 | 10/19/23 23:09 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.35 | mg/L | 0.10 | 10/19/23 23:09 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 306 | mg/L | 7.0 | 10/20/23 11:50 | |
| 92694019002 | HAM-PT-08 | | | | | |
| EPA 6010D | Potassium | 4.6 | mg/L | 0.50 | 10/27/23 17:57 | |
| EPA 6010D | Magnesium | 10.6 | mg/L | 0.050 | 10/27/23 17:57 | |
| EPA 6010D | Iron | 6.5 | mg/L | 0.040 | 10/25/23 18:38 | |
| EPA 6010D | Manganese | 2.9 | mg/L | 0.040 | 10/25/23 18:38 | |
| EPA 6010D | Sodium | 4.8 | mg/L | 1.0 | 10/25/23 18:38 | |
| EPA 6010D | Calcium | 88.0 | mg/L | 1.0 | 10/25/23 18:38 | M1 |
| EPA 6020B | Antimony | 0.00062J | mg/L | 0.0030 | 11/01/23 15:28 | |
| EPA 6020B | Arsenic | 0.19 | mg/L | 0.010 | 11/01/23 15:28 | |
| EPA 6020B | Barium | 0.039 | mg/L | 0.0050 | 11/01/23 15:28 | |
| EPA 6020B | Boron | 0.51 | mg/L | 0.040 | 11/01/23 15:28 | |
| EPA 6020B | Cobalt | 0.018 | mg/L | 0.0050 | 11/01/23 15:28 | |
| EPA 6020B | Lithium | 0.022J | mg/L | 0.030 | 11/01/23 15:28 | |
| EPA 6020B | Molybdenum | 0.020 | mg/L | 0.010 | 11/01/23 15:28 | |
| SM 2540C-2015 | Total Dissolved Solids | 378 | mg/L | 25.0 | 10/19/23 17:07 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 106 | mg/L | 5.0 | 10/20/23 21:25 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 106 | mg/L | 5.0 | 10/20/23 21:25 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 10.8 | mg/L | 1.0 | 10/20/23 00:28 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.30 | mg/L | 0.10 | 10/20/23 00:28 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 146 | mg/L | 3.0 | 10/20/23 12:04 | |
| 92694019003 | HAM-PT-09 | | | | | |
| EPA 6020B | Boron | 0.23 | mg/L | 0.040 | 11/01/23 15:44 | |
| EPA 6020B | Iron | 0.040 | mg/L | 0.040 | 11/01/23 15:44 | |
| EPA 6020B | Molybdenum | 0.27 | mg/L | 0.010 | 11/01/23 15:44 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 25.2 | mg/L | 1.0 | 10/20/23 00:42 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|----------|-------|--------------|----------------|------------|
| 92694019004 | HAM-PT-10 | | | | | |
| EPA 6020B | Boron | 1.3 | mg/L | 0.040 | 11/01/23 15:48 | |
| EPA 6020B | Iron | 0.84 | mg/L | 0.040 | 11/01/23 15:48 | |
| EPA 6020B | Molybdenum | 0.21 | mg/L | 0.010 | 11/01/23 15:48 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 122 | mg/L | 3.0 | 10/20/23 12:18 | |
| 92694019007 | HAM-AP1-FD-01 | | | | | |
| EPA 6010D | Iron | 17.8 | mg/L | 0.040 | 10/25/23 19:19 | |
| EPA 6010D | Manganese | 5.9 | mg/L | 0.040 | 10/25/23 19:19 | |
| EPA 6010D | Calcium | 148 | mg/L | 1.0 | 10/25/23 19:19 | |
| EPA 6010D | Potassium | 5.4 | mg/L | 0.50 | 10/27/23 18:23 | |
| EPA 6010D | Sodium | 6.5 | mg/L | 1.0 | 10/27/23 18:23 | |
| EPA 6010D | Magnesium | 17.8 | mg/L | 0.050 | 10/27/23 18:23 | |
| EPA 6020B | Arsenic | 0.24 | mg/L | 0.010 | 11/01/23 16:22 | |
| EPA 6020B | Barium | 0.093 | mg/L | 0.0050 | 11/01/23 16:22 | |
| EPA 6020B | Beryllium | 0.00010J | mg/L | 0.00050 | 11/03/23 18:08 | |
| EPA 6020B | Boron | 1.1 | mg/L | 0.040 | 11/03/23 18:08 | |
| EPA 6020B | Cobalt | 0.065 | mg/L | 0.0050 | 11/01/23 16:22 | |
| EPA 6020B | Lithium | 0.064 | mg/L | 0.030 | 11/03/23 18:08 | |
| EPA 6020B | Molybdenum | 0.012 | mg/L | 0.010 | 11/01/23 16:22 | |
| SM 2540C-2015 | Total Dissolved Solids | 666 | mg/L | 25.0 | 10/19/23 17:07 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 119 | mg/L | 5.0 | 10/20/23 21:43 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 119 | mg/L | 5.0 | 10/20/23 21:43 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 15.2 | mg/L | 1.0 | 10/20/23 01:38 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.30 | mg/L | 0.10 | 10/20/23 01:38 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 304 | mg/L | 7.0 | 10/20/23 12:32 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

| Sample: HAM-PT-07 | | Lab ID: 92694019001 | | Collected: 10/17/23 13:54 | | Received: 10/18/23 12:10 | | Matrix: Water | |
|-------------------------------------|----------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 18.1 | mg/L | 0.040 | 0.025 | 1 | 10/25/23 12:18 | 10/25/23 18:32 | 7439-89-6 | |
| Manganese | 5.9 | mg/L | 0.040 | 0.011 | 1 | 10/25/23 12:18 | 10/25/23 18:32 | 7439-96-5 | |
| Sodium | 6.8 | mg/L | 1.0 | 0.58 | 1 | 10/25/23 12:18 | 10/25/23 18:32 | 7440-23-5 | |
| Calcium | 151 | mg/L | 1.0 | 0.12 | 1 | 10/25/23 12:18 | 10/25/23 18:32 | 7440-70-2 | |
| Potassium | 5.5 | mg/L | 0.50 | 0.15 | 1 | 10/25/23 12:18 | 10/27/23 17:52 | 7440-09-7 | |
| Magnesium | 17.9 | mg/L | 0.050 | 0.012 | 1 | 10/25/23 12:18 | 10/27/23 17:52 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.0012 | 1 | 10/23/23 12:02 | 10/24/23 19:46 | 7440-36-0 | |
| Arsenic | 0.23 | mg/L | 0.010 | 0.0037 | 1 | 10/23/23 12:02 | 10/24/23 19:46 | 7440-38-2 | |
| Barium | 0.092 | mg/L | 0.0050 | 0.00067 | 1 | 10/23/23 12:02 | 10/24/23 19:46 | 7440-39-3 | |
| Beryllium | 0.00014J | mg/L | 0.00050 | 0.000094 | 1 | 10/23/23 12:02 | 11/01/23 15:57 | 7440-41-7 | |
| Boron | 1.1 | mg/L | 0.040 | 0.012 | 1 | 10/23/23 12:02 | 11/01/23 15:57 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 10/23/23 12:02 | 10/24/23 19:46 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 10/23/23 12:02 | 10/24/23 19:46 | 7440-47-3 | |
| Cobalt | 0.068 | mg/L | 0.0050 | 0.00039 | 1 | 10/23/23 12:02 | 10/24/23 19:46 | 7440-48-4 | |
| Lead | 0.00029J | mg/L | 0.0010 | 0.00012 | 1 | 10/23/23 12:02 | 10/24/23 19:46 | 7439-92-1 | |
| Lithium | 0.062 | mg/L | 0.030 | 0.0016 | 1 | 10/23/23 12:02 | 11/01/23 15:57 | 7439-93-2 | |
| Molybdenum | 0.011 | mg/L | 0.010 | 0.00074 | 1 | 10/23/23 12:02 | 10/24/23 19:46 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 10/23/23 12:02 | 10/24/23 19:46 | 7782-49-2 | |
| Thallium | 0.00026J | mg/L | 0.0010 | 0.00018 | 1 | 10/23/23 12:02 | 10/24/23 19:46 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 10/23/23 12:30 | 10/23/23 14:35 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 677 | mg/L | 25.0 | 25.0 | 1 | | 10/19/23 17:05 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 120 | mg/L | 5.0 | 5.0 | 1 | | 10/20/23 21:16 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 10/20/23 21:16 | | |
| Alkalinity, Total as CaCO3 | 120 | mg/L | 5.0 | 5.0 | 1 | | 10/20/23 21:16 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 10/21/23 02:09 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 15.3 | mg/L | 1.0 | 0.60 | 1 | | 10/19/23 23:09 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

Sample: HAM-PT-07 Lab ID: 92694019001 Collected: 10/17/23 13:54 Received: 10/18/23 12:10 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.35 | mg/L | 0.10 | 0.050 | 1 | | 10/19/23 23:09 | 16984-48-8 | |
| Sulfate | 306 | mg/L | 7.0 | 3.5 | 7 | | 10/20/23 11:50 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

| Sample: HAM-PT-08 | | Lab ID: 92694019002 | | Collected: 10/17/23 12:05 | | Received: 10/18/23 12:10 | | Matrix: Water | |
|--|----------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Potassium | 4.6 | mg/L | 0.50 | 0.15 | 1 | 10/25/23 12:18 | 10/27/23 17:57 | 7440-09-7 | |
| Magnesium | 10.6 | mg/L | 0.050 | 0.012 | 1 | 10/25/23 12:18 | 10/27/23 17:57 | 7439-95-4 | |
| Iron | 6.5 | mg/L | 0.040 | 0.025 | 1 | 10/25/23 12:18 | 10/25/23 18:38 | 7439-89-6 | |
| Manganese | 2.9 | mg/L | 0.040 | 0.011 | 1 | 10/25/23 12:18 | 10/25/23 18:38 | 7439-96-5 | |
| Sodium | 4.8 | mg/L | 1.0 | 0.58 | 1 | 10/25/23 12:18 | 10/25/23 18:38 | 7440-23-5 | |
| Calcium | 88.0 | mg/L | 1.0 | 0.12 | 1 | 10/25/23 12:18 | 10/25/23 18:38 | 7440-70-2 | M1 |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | 0.00062J | mg/L | 0.0030 | 0.00054 | 1 | 10/21/23 11:13 | 11/01/23 15:28 | 7440-36-0 | |
| Arsenic | 0.19 | mg/L | 0.010 | 0.00084 | 1 | 10/21/23 11:13 | 11/01/23 15:28 | 7440-38-2 | |
| Barium | 0.039 | mg/L | 0.0050 | 0.00047 | 1 | 10/21/23 11:13 | 11/01/23 15:28 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 10/21/23 11:13 | 11/01/23 15:28 | 7440-41-7 | |
| Boron | 0.51 | mg/L | 0.040 | 0.012 | 1 | 10/21/23 11:13 | 11/01/23 15:28 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 10/21/23 11:13 | 11/01/23 15:28 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 10/21/23 11:13 | 11/01/23 15:28 | 7440-47-3 | |
| Cobalt | 0.018 | mg/L | 0.0050 | 0.00032 | 1 | 10/21/23 11:13 | 11/01/23 15:28 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 10/21/23 11:13 | 11/01/23 15:28 | 7439-92-1 | |
| Lithium | 0.022J | mg/L | 0.030 | 0.0016 | 1 | 10/21/23 11:13 | 11/01/23 15:28 | 7439-93-2 | |
| Molybdenum | 0.020 | mg/L | 0.010 | 0.00062 | 1 | 10/21/23 11:13 | 11/01/23 15:28 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 10/21/23 11:13 | 11/01/23 15:28 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 10/21/23 11:13 | 11/01/23 15:28 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 10/23/23 12:30 | 10/23/23 14:38 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 378 | mg/L | 25.0 | 25.0 | 1 | | 10/19/23 17:07 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 106 | mg/L | 5.0 | 5.0 | 1 | | 10/20/23 21:25 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 10/20/23 21:25 | | |
| Alkalinity, Total as CaCO3 | 106 | mg/L | 5.0 | 5.0 | 1 | | 10/20/23 21:25 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 10/21/23 02:10 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 10.8 | mg/L | 1.0 | 0.60 | 1 | | 10/20/23 00:28 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

Sample: HAM-PT-08 Lab ID: 92694019002 Collected: 10/17/23 12:05 Received: 10/18/23 12:10 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.30 | mg/L | 0.10 | 0.050 | 1 | | 10/20/23 00:28 | 16984-48-8 | |
| Sulfate | 146 | mg/L | 3.0 | 1.5 | 3 | | 10/20/23 12:04 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

Sample: HAM-PT-09 Lab ID: 92694019003 Collected: 10/17/23 16:17 Received: 10/18/23 12:10 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|---------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Boron | 0.23 | mg/L | 0.040 | 0.012 | 1 | 10/21/23 11:13 | 11/01/23 15:44 | 7440-42-8 | |
| Iron | 0.040 | mg/L | 0.040 | 0.0075 | 1 | 10/21/23 11:13 | 11/01/23 15:44 | 7439-89-6 | |
| Molybdenum | 0.27 | mg/L | 0.010 | 0.00062 | 1 | 10/21/23 11:13 | 11/01/23 15:44 | 7439-98-7 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfate | 25.2 | mg/L | 1.0 | 0.50 | 1 | | 10/20/23 00:42 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

Sample: HAM-PT-10 **Lab ID: 92694019004** Collected: 10/17/23 14:27 Received: 10/18/23 12:10 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---|-------------|-------|--------|---------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Boron | 1.3 | mg/L | 0.040 | 0.012 | 1 | 10/21/23 11:13 | 11/01/23 15:48 | 7440-42-8 | |
| Iron | 0.84 | mg/L | 0.040 | 0.0075 | 1 | 10/21/23 11:13 | 11/01/23 15:48 | 7439-89-6 | |
| Molybdenum | 0.21 | mg/L | 0.010 | 0.00062 | 1 | 10/21/23 11:13 | 11/01/23 15:48 | 7439-98-7 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfate | 122 | mg/L | 3.0 | 1.5 | 3 | | 10/20/23 12:18 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

| Sample: HAM-AP1-EB-01 | | Lab ID: 92694019005 | | Collected: 10/17/23 15:30 | | Received: 10/18/23 12:10 | | Matrix: Water | | |
|-------------------------------------|---------|--|---------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 10/25/23 12:18 | 10/25/23 19:09 | 7439-89-6 | | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 10/25/23 12:18 | 10/25/23 19:09 | 7439-96-5 | | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 10/25/23 12:18 | 10/25/23 19:09 | 7440-09-7 | | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 10/25/23 12:18 | 10/25/23 19:09 | 7440-70-2 | | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 10/25/23 12:18 | 10/25/23 19:09 | 7439-95-4 | | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 10/25/23 12:18 | 10/27/23 18:12 | 7440-23-5 | | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 10/21/23 11:13 | 11/01/23 15:56 | 7440-36-0 | | |
| Arsenic | ND | mg/L | 0.010 | 0.00084 | 1 | 10/21/23 11:13 | 11/01/23 15:56 | 7440-38-2 | | |
| Barium | ND | mg/L | 0.0050 | 0.00047 | 1 | 10/21/23 11:13 | 11/01/23 15:56 | 7440-39-3 | | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 10/21/23 11:13 | 11/01/23 15:56 | 7440-41-7 | | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 10/21/23 11:13 | 11/01/23 15:56 | 7440-42-8 | | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 10/21/23 11:13 | 11/01/23 15:56 | 7440-43-9 | | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 10/21/23 11:13 | 11/01/23 15:56 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 10/21/23 11:13 | 11/01/23 15:56 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 10/21/23 11:13 | 11/01/23 15:56 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 10/21/23 11:13 | 11/01/23 15:56 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 10/21/23 11:13 | 11/01/23 15:56 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 10/21/23 11:13 | 11/01/23 15:56 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 10/21/23 11:13 | 11/01/23 15:56 | 7440-28-0 | | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 10/23/23 12:30 | 10/23/23 14:40 | 7439-97-6 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 10/19/23 17:07 | | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 10/20/23 21:34 | | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 10/20/23 21:34 | | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 10/20/23 21:34 | | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 10/21/23 02:10 | 18496-25-8 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 10/20/23 01:10 | 16887-00-6 | | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

Sample: HAM-AP1-EB-01 Lab ID: 92694019005 Collected: 10/17/23 15:30 Received: 10/18/23 12:10 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|----|------|------|-------|---|--|----------------|------------|--|
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 10/20/23 01:10 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 10/20/23 01:10 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

Sample: HAM-AP1-FB-01 Lab ID: 92694019006 Collected: 10/17/23 15:25 Received: 10/18/23 12:10 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 10/25/23 12:18 | 10/25/23 19:14 | 7439-89-6 | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 10/25/23 12:18 | 10/25/23 19:14 | 7439-96-5 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 10/25/23 12:18 | 10/25/23 19:14 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 10/25/23 12:18 | 10/25/23 19:14 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 10/25/23 12:18 | 10/25/23 19:14 | 7439-95-4 | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 10/25/23 12:18 | 10/27/23 18:18 | 7440-09-7 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 10/21/23 11:13 | 11/01/23 16:18 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.00084 | 1 | 10/21/23 11:13 | 11/01/23 16:18 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00047 | 1 | 10/21/23 11:13 | 11/01/23 16:18 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 10/21/23 11:13 | 11/01/23 16:18 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 10/21/23 11:13 | 11/01/23 16:18 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 10/21/23 11:13 | 11/01/23 16:18 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 10/21/23 11:13 | 11/01/23 16:18 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 10/21/23 11:13 | 11/01/23 16:18 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 10/21/23 11:13 | 11/01/23 16:18 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 10/21/23 11:13 | 11/01/23 16:18 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 10/21/23 11:13 | 11/01/23 16:18 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 10/21/23 11:13 | 11/01/23 16:18 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 10/21/23 11:13 | 11/01/23 16:18 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 10/23/23 12:30 | 10/23/23 14:43 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 10/19/23 17:07 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 10/20/23 21:39 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 10/20/23 21:39 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 10/20/23 21:39 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 10/21/23 02:10 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 10/20/23 01:24 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 Week 2
 Pace Project No.: 92694019

| Sample: HAM-AP1-FB-01 | | Lab ID: 92694019006 | | Collected: 10/17/23 15:25 | Received: 10/18/23 12:10 | Matrix: Water | | | |
|--------------------------------|---------|---|--------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 10/20/23 01:24 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 10/20/23 01:24 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

| Sample: HAM-AP1-FD-01 | | Lab ID: 92694019007 | | Collected: 10/17/23 00:00 | | Received: 10/18/23 12:10 | | Matrix: Water | |
|--|----------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 17.8 | mg/L | 0.040 | 0.025 | 1 | 10/25/23 12:18 | 10/25/23 19:19 | 7439-89-6 | |
| Manganese | 5.9 | mg/L | 0.040 | 0.011 | 1 | 10/25/23 12:18 | 10/25/23 19:19 | 7439-96-5 | |
| Calcium | 148 | mg/L | 1.0 | 0.12 | 1 | 10/25/23 12:18 | 10/25/23 19:19 | 7440-70-2 | |
| Potassium | 5.4 | mg/L | 0.50 | 0.15 | 1 | 10/25/23 12:18 | 10/27/23 18:23 | 7440-09-7 | |
| Sodium | 6.5 | mg/L | 1.0 | 0.58 | 1 | 10/25/23 12:18 | 10/27/23 18:23 | 7440-23-5 | |
| Magnesium | 17.8 | mg/L | 0.050 | 0.012 | 1 | 10/25/23 12:18 | 10/27/23 18:23 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 10/21/23 11:13 | 11/01/23 16:22 | 7440-36-0 | |
| Arsenic | 0.24 | mg/L | 0.010 | 0.00084 | 1 | 10/21/23 11:13 | 11/01/23 16:22 | 7440-38-2 | |
| Barium | 0.093 | mg/L | 0.0050 | 0.00047 | 1 | 10/21/23 11:13 | 11/01/23 16:22 | 7440-39-3 | |
| Beryllium | 0.00010J | mg/L | 0.00050 | 0.000094 | 1 | 10/21/23 11:13 | 11/03/23 18:08 | 7440-41-7 | |
| Boron | 1.1 | mg/L | 0.040 | 0.012 | 1 | 10/21/23 11:13 | 11/03/23 18:08 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 10/21/23 11:13 | 11/01/23 16:22 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 10/21/23 11:13 | 11/01/23 16:22 | 7440-47-3 | |
| Cobalt | 0.065 | mg/L | 0.0050 | 0.00032 | 1 | 10/21/23 11:13 | 11/01/23 16:22 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 10/21/23 11:13 | 11/01/23 16:22 | 7439-92-1 | |
| Lithium | 0.064 | mg/L | 0.030 | 0.0016 | 1 | 10/21/23 11:13 | 11/03/23 18:08 | 7439-93-2 | |
| Molybdenum | 0.012 | mg/L | 0.010 | 0.00062 | 1 | 10/21/23 11:13 | 11/01/23 16:22 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 10/21/23 11:13 | 11/01/23 16:22 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 10/21/23 11:13 | 11/01/23 16:22 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 10/23/23 12:30 | 10/23/23 14:45 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 666 | mg/L | 25.0 | 25.0 | 1 | | 10/19/23 17:07 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 119 | mg/L | 5.0 | 5.0 | 1 | | 10/20/23 21:43 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 10/20/23 21:43 | | |
| Alkalinity, Total as CaCO3 | 119 | mg/L | 5.0 | 5.0 | 1 | | 10/20/23 21:43 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 10/21/23 02:11 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 15.2 | mg/L | 1.0 | 0.60 | 1 | | 10/20/23 01:38 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1 Week 2
 Pace Project No.: 92694019

Sample: HAM-AP1-FD-01 **Lab ID: 92694019007** Collected: 10/17/23 00:00 Received: 10/18/23 12:10 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.30 | mg/L | 0.10 | 0.050 | 1 | | 10/20/23 01:38 | 16984-48-8 | |
| Sulfate | 304 | mg/L | 7.0 | 3.5 | 7 | | 10/20/23 12:32 | 14808-79-8 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

QC Batch: 808667 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92694019001, 92694019002, 92694019005, 92694019006, 92694019007

METHOD BLANK: 4187264 Matrix: Water
 Associated Lab Samples: 92694019001, 92694019002, 92694019005, 92694019006, 92694019007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 10/25/23 18:22 | |
| Iron | mg/L | ND | 0.040 | 0.025 | 10/25/23 18:22 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 10/25/23 18:22 | |
| Manganese | mg/L | ND | 0.040 | 0.011 | 10/25/23 18:22 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 10/25/23 18:22 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 10/25/23 18:22 | |

LABORATORY CONTROL SAMPLE: 4187265

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 1 | 0.99J | 99 | 80-120 | |
| Iron | mg/L | 1 | 1.0 | 103 | 80-120 | |
| Magnesium | mg/L | 1 | 1.1 | 112 | 80-120 | |
| Manganese | mg/L | 1 | 1.0 | 104 | 80-120 | |
| Potassium | mg/L | 1 | 1.0 | 100 | 80-120 | |
| Sodium | mg/L | 1 | 1.0 | 101 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4187984 4187985

| Parameter | Units | MS | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------------|-------------|-----------|------------|-------|-------|--------|--------------|-----|---------|------|
| | | 92694019002 | Spike Conc. | Spike Conc. | MS Result | MSD Result | % Rec | % Rec | | | | | |
| Calcium | mg/L | 88.0 | 1 | 1 | 90.7 | 89.3 | 270 | 131 | 75-125 | 2 | 20 | | |
| Iron | mg/L | 6.5 | 1 | 1 | 7.2 | 7.1 | 71 | 60 | 75-125 | 2 | 20 | | |
| Magnesium | mg/L | 10.6 | 1 | 1 | 11.5 | 11.4 | 90 | 78 | 75-125 | 1 | 20 | | |
| Manganese | mg/L | 2.9 | 1 | 1 | 3.7 | 3.7 | 82 | 77 | 75-125 | 1 | 20 | | |
| Potassium | mg/L | 4.6 | 1 | 1 | 5.4 | 5.3 | 76 | 69 | 75-125 | 1 | 20 | | |
| Sodium | mg/L | 4.8 | 1 | 1 | 5.5 | 5.5 | 76 | 72 | 75-125 | 1 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 808042 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6020 MET |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92694019002, 92694019003, 92694019004, 92694019005, 92694019006, 92694019007

METHOD BLANK: 4184097 Matrix: Water

Associated Lab Samples: 92694019002, 92694019003, 92694019004, 92694019005, 92694019006, 92694019007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00054 | 11/01/23 15:20 | |
| Arsenic | mg/L | ND | 0.010 | 0.00084 | 11/01/23 15:20 | |
| Barium | mg/L | ND | 0.0050 | 0.00047 | 11/01/23 15:20 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000094 | 11/01/23 15:20 | |
| Boron | mg/L | ND | 0.040 | 0.012 | 11/01/23 15:20 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00010 | 11/01/23 15:20 | |
| Chromium | mg/L | ND | 0.0050 | 0.0019 | 11/01/23 15:20 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00032 | 11/01/23 15:20 | |
| Iron | mg/L | ND | 0.040 | 0.0075 | 11/01/23 15:20 | |
| Lead | mg/L | ND | 0.0010 | 0.00016 | 11/01/23 15:20 | |
| Lithium | mg/L | ND | 0.030 | 0.0016 | 11/01/23 15:20 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00062 | 11/01/23 15:20 | |
| Selenium | mg/L | ND | 0.0050 | 0.00096 | 11/01/23 15:20 | |
| Thallium | mg/L | ND | 0.0010 | 0.00038 | 11/01/23 15:20 | |

LABORATORY CONTROL SAMPLE: 4184098

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.11 | 108 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.11 | 106 | 80-120 | |
| Boron | mg/L | 1 | 1.0 | 102 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Iron | mg/L | 1 | 1.0 | 103 | 80-120 | |
| Lead | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.11 | 109 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.097 | 97 | 80-120 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

| Parameter | Units | 4184099 | | 4184100 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 92694019002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Antimony | mg/L | 0.00062J | 0.1 | 0.1 | 0.10 | 0.11 | 103 | 105 | 75-125 | 2 | 20 | | |
| Arsenic | mg/L | 0.19 | 0.1 | 0.1 | 0.30 | 0.30 | 102 | 106 | 75-125 | 1 | 20 | | |
| Barium | mg/L | 0.039 | 0.1 | 0.1 | 0.15 | 0.15 | 108 | 109 | 75-125 | 1 | 20 | | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.076 | 0.078 | 76 | 78 | 75-125 | 2 | 20 | | |
| Boron | mg/L | 0.51 | 1 | 1 | 1.3 | 1.3 | 79 | 83 | 75-125 | 3 | 20 | | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.11 | 99 | 106 | 75-125 | 6 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.085 | 0.087 | 85 | 86 | 75-125 | 2 | 20 | | |
| Cobalt | mg/L | 0.018 | 0.1 | 0.1 | 0.10 | 0.11 | 86 | 87 | 75-125 | 2 | 20 | | |
| Iron | mg/L | 4.8 | 1 | 1 | 5.9 | 5.9 | 107 | 108 | 75-125 | 0 | 20 | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.098 | 0.10 | 98 | 100 | 75-125 | 2 | 20 | | |
| Lithium | mg/L | 0.022J | 0.1 | 0.1 | 0.11 | 0.11 | 83 | 85 | 75-125 | 2 | 20 | | |
| Molybdenum | mg/L | 0.020 | 0.1 | 0.1 | 0.12 | 0.12 | 101 | 103 | 75-125 | 1 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 109 | 111 | 75-125 | 2 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 103 | 75-125 | 2 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 808188 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6020 MET |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92694019001

METHOD BLANK: 4184607 Matrix: Water

Associated Lab Samples: 92694019001

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.0012 | 10/24/23 18:03 | |
| Arsenic | mg/L | ND | 0.010 | 0.0037 | 10/24/23 18:03 | |
| Barium | mg/L | ND | 0.0050 | 0.00067 | 10/24/23 18:03 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000094 | 10/24/23 18:03 | |
| Boron | mg/L | ND | 0.040 | 0.012 | 10/24/23 18:03 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00011 | 10/24/23 18:03 | |
| Chromium | mg/L | ND | 0.0050 | 0.0011 | 10/24/23 18:03 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00039 | 10/24/23 18:03 | |
| Lead | mg/L | ND | 0.0010 | 0.00012 | 10/24/23 18:03 | |
| Lithium | mg/L | ND | 0.030 | 0.0016 | 10/24/23 18:03 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00074 | 10/24/23 18:03 | |
| Selenium | mg/L | ND | 0.0050 | 0.0014 | 10/24/23 18:03 | |
| Thallium | mg/L | ND | 0.0010 | 0.00018 | 10/24/23 18:03 | |

LABORATORY CONTROL SAMPLE: 4184608

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.11 | 106 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.11 | 110 | 80-120 | |
| Boron | mg/L | 1 | 1.0 | 104 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Lead | mg/L | 0.1 | 0.11 | 105 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.11 | 107 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.10 | 102 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4184609 4184610

| Parameter | Units | 92693117001 Result | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | | Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 104 | 105 | 75-125 | 0 | 20 | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 100 | 101 | 75-125 | 1 | 20 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4184609 4184610 | | | | | | | | | | | | |
|--|-------|-----------------------|----------------|----------------|--------------|--------------|---------------|-------------|--------------|-----------------|------------|------|
| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |
| | | 92693117001 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | | |
| Barium | mg/L | ND | 0.1 | 0.1 | 0.16 | 0.16 | 109 | 111 | 75-125 | 1 | 20 | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 102 | 75-125 | 0 | 20 | |
| Boron | mg/L | ND | 1 | 1 | 0.78 | 0.79 | 77 | 77 | 75-125 | 1 | 20 | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.098 | 0.10 | 98 | 100 | 75-125 | 2 | 20 | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 103 | 75-125 | 0 | 20 | |
| Cobalt | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 101 | 103 | 75-125 | 1 | 20 | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 104 | 103 | 75-125 | 1 | 20 | |
| Lithium | mg/L | ND | 0.1 | 0.1 | 0.077 | 0.078 | 77 | 78 | 75-125 | 1 | 20 | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 108 | 108 | 75-125 | 0 | 20 | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.098 | 0.10 | 98 | 100 | 75-125 | 2 | 20 | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 107 | 106 | 75-125 | 0 | 20 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

| | | | |
|-------------------------|---|-----------------------|--|
| QC Batch: | 808146 | Analysis Method: | EPA 7470A |
| QC Batch Method: | EPA 7470A | Analysis Description: | 7470 Mercury |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |
| Associated Lab Samples: | 92694019001, 92694019002, 92694019005, 92694019006, 92694019007 | | |

METHOD BLANK: 4184430 Matrix: Water
 Associated Lab Samples: 92694019001, 92694019002, 92694019005, 92694019006, 92694019007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00020 | 0.00013 | 10/23/23 14:11 | |

LABORATORY CONTROL SAMPLE: 4184431

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0025 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4184432 4184433

| Parameter | Units | 4184432 | | 4184433 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Mercury | mg/L | ND | 0.0025 | 0.0022 | 0.0019 | 87 | 74 | 75-125 | 16 | 20 | M1 |

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QUALITY CONTROL DATA

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

QC Batch: 807658 Analysis Method: SM 2540C-2015
 QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92694019001, 92694019002, 92694019005, 92694019006, 92694019007

METHOD BLANK: 4182234 Matrix: Water
 Associated Lab Samples: 92694019001, 92694019002, 92694019005, 92694019006, 92694019007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 10/19/23 17:02 | |

LABORATORY CONTROL SAMPLE: 4182235

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 386 | 96 | 80-120 | |

SAMPLE DUPLICATE: 4182236

| Parameter | Units | 92693883001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 957 | 962 | 1 | 10 | |

SAMPLE DUPLICATE: 4182237

| Parameter | Units | 92694019001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 677 | 672 | 1 | 10 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

QC Batch: 807943 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92694019001, 92694019002, 92694019005, 92694019006, 92694019007

METHOD BLANK: 4183579 Matrix: Water
 Associated Lab Samples: 92694019001, 92694019002, 92694019005, 92694019006, 92694019007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 10/20/23 20:06 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 10/20/23 20:06 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 10/20/23 20:06 | |

LABORATORY CONTROL SAMPLE: 4183580

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 50.4 | 101 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4183581

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 50.7 | 101 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4183582 4183583

| Parameter | Units | 4183582 | | 4183583 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | <5.0 | 50 | 50 | 50.9 | 51.3 | 101 | 102 | 80-120 | 1 | 25 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4183584 4183585

| Parameter | Units | 4183584 | | 4183585 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 23.3 | 50 | 50 | 71.9 | 72.0 | 97 | 97 | 80-120 | 0 | 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

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QUALITY CONTROL DATA

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

QC Batch: 808007 Analysis Method: SM 4500-S2D-2011
 QC Batch Method: SM 4500-S2D-2011 Analysis Description: 4500S2D Sulfide Water
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92694019001, 92694019002, 92694019005, 92694019006, 92694019007

METHOD BLANK: 4184007 Matrix: Water
 Associated Lab Samples: 92694019001, 92694019002, 92694019005, 92694019006, 92694019007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide | mg/L | ND | 0.10 | 0.022 | 10/21/23 02:07 | |

LABORATORY CONTROL SAMPLE: 4184008

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide | mg/L | 0.5 | 0.53 | 106 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4184009 4184010

| Parameter | Units | 92694100001 Result | MS | MSD | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | | Spike Conc. | Spike Conc. | | | | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.52 | 0.53 | 103 | 106 | 80-120 | 2 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4184011 4184012

| Parameter | Units | 92694100002 Result | MS | MSD | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | | Spike Conc. | Spike Conc. | | | | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.53 | 0.53 | 105 | 105 | 80-120 | 0 | 10 | |

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

| | | | |
|-------------------------|---|-----------------------|--------------------------------------|
| QC Batch: | 807689 | Analysis Method: | EPA 300.0 Rev 2.1 1993 |
| QC Batch Method: | EPA 300.0 Rev 2.1 1993 | Analysis Description: | 300.0 IC Anions |
| | | Laboratory: | Pace Analytical Services - Asheville |
| Associated Lab Samples: | 92694019001, 92694019002, 92694019003, 92694019004, 92694019005, 92694019006, 92694019007 | | |

METHOD BLANK: 4182604 Matrix: Water
 Associated Lab Samples: 92694019001, 92694019002, 92694019003, 92694019004, 92694019005, 92694019006, 92694019007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 10/19/23 21:33 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 10/19/23 21:33 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 10/19/23 21:33 | |

LABORATORY CONTROL SAMPLE: 4182605

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 51.8 | 104 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.6 | 105 | 90-110 | |
| Sulfate | mg/L | 50 | 49.4 | 99 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4182606 4182607

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92693798001 Result | Spike Conc. | Spike Conc. | Conc. | | | | | | | | |
| Chloride | mg/L | 179 | 50 | 50 | 223 | 224 | 88 | 91 | 90-110 | 1 | 10 | M1 | |
| Fluoride | mg/L | 6.5 | 2.5 | 2.5 | 7.8 | 8.8 | 52 | 93 | 90-110 | 12 | 10 | M1, R1 | |
| Sulfate | mg/L | 629 | 50 | 50 | 673 | 677 | 88 | 97 | 90-110 | 1 | 10 | M1 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4182608 4182609

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92694107002 Result | Spike Conc. | Spike Conc. | Conc. | | | | | | | | |
| Chloride | mg/L | 5.3 | 50 | 50 | 54.9 | 55.9 | 99 | 101 | 90-110 | 2 | 10 | | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.5 | 2.6 | 100 | 102 | 90-110 | 2 | 10 | | |
| Sulfate | mg/L | ND | 50 | 50 | 48.9 | 49.9 | 97 | 99 | 90-110 | 2 | 10 | | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 Week 2

Pace Project No.: 92694019

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|------------------------|----------|-------------------|------------------|
| 92694019001 | HAM-PT-07 | EPA 3010A | 808667 | EPA 6010D | 808804 |
| 92694019002 | HAM-PT-08 | EPA 3010A | 808667 | EPA 6010D | 808804 |
| 92694019005 | HAM-AP1-EB-01 | EPA 3010A | 808667 | EPA 6010D | 808804 |
| 92694019006 | HAM-AP1-FB-01 | EPA 3010A | 808667 | EPA 6010D | 808804 |
| 92694019007 | HAM-AP1-FD-01 | EPA 3010A | 808667 | EPA 6010D | 808804 |
| 92694019001 | HAM-PT-07 | EPA 3005A | 808188 | EPA 6020B | 808251 |
| 92694019002 | HAM-PT-08 | EPA 3005A | 808042 | EPA 6020B | 808061 |
| 92694019003 | HAM-PT-09 | EPA 3005A | 808042 | EPA 6020B | 808061 |
| 92694019004 | HAM-PT-10 | EPA 3005A | 808042 | EPA 6020B | 808061 |
| 92694019005 | HAM-AP1-EB-01 | EPA 3005A | 808042 | EPA 6020B | 808061 |
| 92694019006 | HAM-AP1-FB-01 | EPA 3005A | 808042 | EPA 6020B | 808061 |
| 92694019007 | HAM-AP1-FD-01 | EPA 3005A | 808042 | EPA 6020B | 808061 |
| 92694019001 | HAM-PT-07 | EPA 7470A | 808146 | EPA 7470A | 808193 |
| 92694019002 | HAM-PT-08 | EPA 7470A | 808146 | EPA 7470A | 808193 |
| 92694019005 | HAM-AP1-EB-01 | EPA 7470A | 808146 | EPA 7470A | 808193 |
| 92694019006 | HAM-AP1-FB-01 | EPA 7470A | 808146 | EPA 7470A | 808193 |
| 92694019007 | HAM-AP1-FD-01 | EPA 7470A | 808146 | EPA 7470A | 808193 |
| 92694019001 | HAM-PT-07 | SM 2540C-2015 | 807658 | | |
| 92694019002 | HAM-PT-08 | SM 2540C-2015 | 807658 | | |
| 92694019005 | HAM-AP1-EB-01 | SM 2540C-2015 | 807658 | | |
| 92694019006 | HAM-AP1-FB-01 | SM 2540C-2015 | 807658 | | |
| 92694019007 | HAM-AP1-FD-01 | SM 2540C-2015 | 807658 | | |
| 92694019001 | HAM-PT-07 | SM 2320B-2011 | 807943 | | |
| 92694019002 | HAM-PT-08 | SM 2320B-2011 | 807943 | | |
| 92694019005 | HAM-AP1-EB-01 | SM 2320B-2011 | 807943 | | |
| 92694019006 | HAM-AP1-FB-01 | SM 2320B-2011 | 807943 | | |
| 92694019007 | HAM-AP1-FD-01 | SM 2320B-2011 | 807943 | | |
| 92694019001 | HAM-PT-07 | SM 4500-S2D-2011 | 808007 | | |
| 92694019002 | HAM-PT-08 | SM 4500-S2D-2011 | 808007 | | |
| 92694019005 | HAM-AP1-EB-01 | SM 4500-S2D-2011 | 808007 | | |
| 92694019006 | HAM-AP1-FB-01 | SM 4500-S2D-2011 | 808007 | | |
| 92694019007 | HAM-AP1-FD-01 | SM 4500-S2D-2011 | 808007 | | |
| 92694019001 | HAM-PT-07 | EPA 300.0 Rev 2.1 1993 | 807689 | | |
| 92694019002 | HAM-PT-08 | EPA 300.0 Rev 2.1 1993 | 807689 | | |
| 92694019003 | HAM-PT-09 | EPA 300.0 Rev 2.1 1993 | 807689 | | |
| 92694019004 | HAM-PT-10 | EPA 300.0 Rev 2.1 1993 | 807689 | | |
| 92694019005 | HAM-AP1-EB-01 | EPA 300.0 Rev 2.1 1993 | 807689 | | |
| 92694019006 | HAM-AP1-FB-01 | EPA 300.0 Rev 2.1 1993 | 807689 | | |
| 92694019007 | HAM-AP1-FD-01 | EPA 300.0 Rev 2.1 1993 | 807689 | | |

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Go Power

Project #:

[Empty box for Project #]

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents 10-18-23 JCC

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer: IR Gun ID: 730

Type of Ice: Wet Blue None

Cooler Temp: 4.8 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.8

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | Comments/Discrepancy: |
|--|-----------------------|
| Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: <u>2</u> | |
| Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

ENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



9800 Kinsey Ave., Suite 100
 Huntersville, NC 28078
 (704)875-9092

SAMPLE ACKNOWLEDGMENT

Samples Submitted By: Georgia Power- Hammond
Client Project ID: Hammond AP-1
Client PO#: GPC82474-0001

Pace Project Manager: Bonnie Vang
 Phone 704-977-0968
 bonnie.vang@pacelabs.com
Pace Analytical Project ID: 92695422
Samples Received: October 25, 2023 12:16 PM
Estimated Completion: November 08, 2023

CC: Anthony Szwast, Caroline Nelson, Christine Hug, Kip Gray, Kristen Jurinko, Laura Midkiff, Thomas Kessler, Whitney Law

| Customer Sample ID | Pace Analytical Lab ID | Matrix | Date/Time Collected | Method |
|--------------------|------------------------|--------|---------------------|---|
| HAM-PT-07 | 92695422001 | Water | 10/24/23 11:05 | 300.0 IC Anions 6020 MET ICPMS Metals Digestion Charge Sample Disposal |
| HAM-PT-08 | 92695422002 | Water | 10/24/23 14:17 | 300.0 IC Anions 6020 MET ICPMS Metals Digestion Charge Sample Disposal |
| HAM-PT-09 | 92695422003 | Water | 10/24/23 16:15 | 2320B Alkalinity 2540C Total Dissolved Solids 300.0 IC Anions 4500S2D Sulfide Water 6010D ATL ICP 6020 MET ICPMS 7470 Mercury Metals Digestion Charge Sample Disposal |
| HAM-PT-10 | 92695422004 | Water | 10/24/23 17:15 | 2320B Alkalinity 2540C Total Dissolved Solids 300.0 IC Anions 4500S2D Sulfide Water 6010D ATL ICP 6020 MET ICPMS 7470 Mercury Metals Digestion Charge Sample Disposal |
| HAM-AP1-EB-01 | 92695422005 | Water | 10/24/23 18:35 | 2320B Alkalinity 2540C Total Dissolved Solids 300.0 IC Anions 4500S2D Sulfide Water 6010D ATL ICP 6020 MET ICPMS 7470 Mercury Metals Digestion Charge Sample Disposal |
| HAM-AP1-FB-01 | 92695422006 | Water | 10/24/23 18:25 | 2320B Alkalinity 2540C Total Dissolved Solids 300.0 IC Anions 4500S2D Sulfide Water 6010D ATL ICP |

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Confidentiality Statement: The Parties agree that they will take all reasonable precautions to prevent the unauthorized disclosure of any proprietary or confidential information of each other and that they will not disclose such information except to those employees, subcontractors, or agents who have expressly agreed to maintain confidentiality.

Thank you for choosing Pace Analytical Services, LLC.



9800 Kinsey Ave., Suite 100
 Huntersville, NC 28078
 (704)875-9092

SAMPLE ACKNOWLEDGMENT

Samples Submitted By: Georgia Power- Hammond
Client Project ID: Hammond AP-1
Client PO#: GPC82474-0001

Pace Project Manager: Bonnie Vang
 Phone 704-977-0968
 bonnie.vang@pacelabs.com
Pace Analytical Project ID: 92695422
Samples Received: October 25, 2023 12:16 PM
Estimated Completion: November 08, 2023

CC: Anthony Szwast, Caroline Nelson, Christine Hug, Kip Gray, Kristen Jurinko, Laura Midkiff, Thomas Kessler, Whitney Law

| Customer Sample ID | Pace Analytical Lab ID | Matrix | Date/Time Collected | Method |
|--------------------|------------------------|--------|---------------------|---|
| HAM-PT-07 | 92695422001 | Water | 10/24/23 11:05 | 300.0 IC Anions 6020 MET ICPMS Metals Digestion Charge Sample Disposal |
| HAM-PT-08 | 92695422002 | Water | 10/24/23 14:17 | 300.0 IC Anions 6020 MET ICPMS Metals Digestion Charge Sample Disposal |
| HAM-PT-09 | 92695422003 | Water | 10/24/23 16:15 | 2320B Alkalinity 2540C Total Dissolved Solids 300.0 IC Anions 4500S2D Sulfide Water 6010D ATL ICP 6020 MET ICPMS 7470 Mercury Metals Digestion Charge Sample Disposal |
| HAM-PT-10 | 92695422004 | Water | 10/24/23 17:15 | 2320B Alkalinity 2540C Total Dissolved Solids 300.0 IC Anions 4500S2D Sulfide Water 6010D ATL ICP 6020 MET ICPMS 7470 Mercury Metals Digestion Charge Sample Disposal |
| HAM-AP1-EB-01 | 92695422005 | Water | 10/24/23 18:35 | 2320B Alkalinity 2540C Total Dissolved Solids 300.0 IC Anions 4500S2D Sulfide Water 6010D ATL ICP 6020 MET ICPMS 7470 Mercury Metals Digestion Charge Sample Disposal |
| HAM-AP1-FB-01 | 92695422006 | Water | 10/24/23 18:25 | 2320B Alkalinity 2540C Total Dissolved Solids 300.0 IC Anions 4500S2D Sulfide Water 6010D ATL ICP |

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Huntersville, NC 28078
(704)875-9092

SAMPLE ACKNOWLEDGMENT

| Customer Sample ID | Pace Analytical Lab ID | Matrix | Date/Time Collected | Method |
|--------------------|------------------------|--------|---------------------|---|
| HAM-AP1-FD-01 | 92695422007 | Water | 10/24/23 00:00 | 6020 MET ICPMS 7470 Mercury Metals Digestion Charge Sample Disposal 2320B Alkalinity 2540C Total Dissolved Solids 300.0 IC Anions 4500S2D Sulfide Water 6010D ATL ICP 6020 MET ICPMS 7470 Mercury Metals Digestion Charge Sample Disposal |

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Thank you for choosing Pace Analytical Services, LLC.



9800 Kinsey Ave., Suite 100
 Huntersville, NC 28078
 (704)875-9092

SAMPLE ACKNOWLEDGMENT

Samples Submitted By: Georgia Power- Hammond
Client Project ID: Hammond AP-1
Client PO#: GPC82474-0001

Pace Project Manager: Bonnie Vang
 Phone 704-977-0968
 bonnie.vang@pacelabs.com
Pace Analytical Project ID: 92696318
Samples Received: November 1, 2023 12:05 PM
Estimated Completion: November 15, 2023

CC: Anthony Szwast, Caroline Nelson, Christine Hug, Kip Gray, Kristen Jurinko, Laura Midkiff, Thomas Kessler, Whitney Law

| Customer Sample ID | Pace Analytical Lab ID | Matrix | Date/Time Collected | Method |
|--------------------|------------------------|--------|---------------------|---|
| HAM-PT-07 | 92696318001 | Water | 10/31/23 11:51 | 2320B Alkalinity 2540C Total Dissolved Solids 300.0 IC Anions 4500S2D Sulfide Water 6010D ATL ICP 6020 MET ICPMS 7470 Mercury Metals Digestion Charge Sample Disposal |
| HAM-PT-08 | 92696318002 | Water | 10/31/23 15:31 | 2320B Alkalinity 2540C Total Dissolved Solids 300.0 IC Anions 4500S2D Sulfide Water 6010D ATL ICP 6020 MET ICPMS 7470 Mercury Metals Digestion Charge Sample Disposal |
| HAM-PT-09 | 92696318003 | Water | 10/31/23 16:07 | 300.0 IC Anions 6020 MET ICPMS Metals Digestion Charge Sample Disposal |
| HAM-PT-10 | 92696318004 | Water | 10/31/23 13:12 | 300.0 IC Anions 6020 MET ICPMS Metals Digestion Charge Sample Disposal |
| HAM-AP1-EB-01 | 92696318005 | Water | 10/31/23 17:00 | 2320B Alkalinity 2540C Total Dissolved Solids 300.0 IC Anions 4500S2D Sulfide Water 6010D ATL ICP 6020 MET ICPMS 7470 Mercury Metals Digestion Charge Sample Disposal |
| HAM-AP1-FB-01 | 92696318006 | Water | 10/31/23 16:45 | 2320B Alkalinity 2540C Total Dissolved Solids 300.0 IC Anions 4500S2D Sulfide Water 6010D ATL ICP |

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Huntersville, NC 28078
(704)875-9092

SAMPLE ACKNOWLEDGMENT

| Customer Sample ID | Pace Analytical Lab ID | Matrix | Date/Time Collected | Method |
|--------------------|------------------------|--------|---------------------|---|
| HAM-AP1-FD-01 | 92696318007 | Water | 10/31/23 00:00 | 6020 MET ICPMS 7470 Mercury Metals Digestion Charge Sample Disposal 2320B Alkalinity 2540C Total Dissolved Solids 300.0 IC Anions 4500S2D Sulfide Water 6010D ATL ICP 6020 MET ICPMS 7470 Mercury Metals Digestion Charge Sample Disposal |

Please contact your project manager if you recognize any discrepancy in this form or have any questions about your project.

Thank you for choosing Pace Analytical Services, LLC.



December 06, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92695422

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on October 25, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

Revision 1: Amend COC.

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec
Anthony Szwast, Geosyntec Consultants



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-1

Pace Project No.: 92695422

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92695422

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------|--------|----------------|----------------|
| 92695422001 | HAM-PT-07 | Water | 10/24/23 11:05 | 10/25/23 12:16 |
| 92695422002 | HAM-PT-08 | Water | 10/24/23 14:17 | 10/25/23 12:16 |
| 92695422003 | HAM-PT-09 | Water | 10/24/23 16:15 | 10/25/23 12:16 |
| 92695422004 | HAM-PT-10 | Water | 10/24/23 17:15 | 10/25/23 12:16 |
| 92695422005 | HAM-AP1-EB-01 | Water | 10/24/23 18:35 | 10/25/23 12:16 |
| 92695422006 | HAM-AP1-FB-01 | Water | 10/24/23 18:25 | 10/25/23 12:16 |
| 92695422007 | HAM-AP1-FD-01 | Water | 10/24/23 00:00 | 10/25/23 12:16 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1

Pace Project No.: 92695422

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------|------------------------|----------|-------------------|
| 92695422001 | HAM-PT-07 | EPA 6020B | CW1 | 3 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| 92695422002 | HAM-PT-08 | EPA 6020B | CW1 | 3 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| 92695422003 | HAM-PT-09 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| 92695422004 | HAM-PT-10 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| 92695422005 | HAM-AP1-EB-01 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| 92695422006 | HAM-AP1-FB-01 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| 92695422007 | HAM-AP1-FD-01 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92695422

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|--------|-----------|------------------------|----------|-------------------|
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92695422

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|----------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92695422001 | HAM-PT-07 | | | | | |
| EPA 6020B | Arsenic | 0.31 | mg/L | 0.10 | 11/07/23 20:09 | |
| EPA 6020B | Boron | 1.1 | mg/L | 0.40 | 11/07/23 20:09 | |
| EPA 6020B | Iron | 18.5 | mg/L | 0.40 | 11/07/23 20:09 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 15.7 | mg/L | 1.0 | 10/28/23 16:53 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.38 | mg/L | 0.10 | 10/28/23 16:53 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 299 | mg/L | 7.0 | 10/29/23 00:56 | |
| 92695422002 | HAM-PT-08 | | | | | |
| EPA 6020B | Arsenic | 0.28 | mg/L | 0.10 | 11/07/23 20:13 | |
| EPA 6020B | Boron | 1.1 | mg/L | 0.40 | 11/07/23 20:13 | |
| EPA 6020B | Iron | 8.0 | mg/L | 0.40 | 11/07/23 20:13 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 17.6 | mg/L | 1.0 | 10/28/23 17:07 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.30 | mg/L | 0.10 | 10/28/23 17:07 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 238 | mg/L | 5.0 | 10/29/23 01:10 | |
| 92695422003 | HAM-PT-09 | | | | | |
| EPA 6010D | Iron | 0.40 | mg/L | 0.040 | 11/10/23 13:34 | |
| EPA 6010D | Manganese | 0.076 | mg/L | 0.040 | 11/10/23 13:34 | |
| EPA 6010D | Potassium | 3.8 | mg/L | 0.50 | 11/10/23 13:34 | |
| EPA 6010D | Sodium | 4.1 | mg/L | 1.0 | 11/10/23 13:34 | |
| EPA 6010D | Calcium | 56.2 | mg/L | 1.0 | 11/10/23 13:34 | M1 |
| EPA 6010D | Magnesium | 13.7 | mg/L | 0.050 | 11/10/23 13:34 | |
| EPA 6020B | Barium | 0.079 | mg/L | 0.0050 | 11/07/23 20:17 | |
| EPA 6020B | Boron | 0.50 | mg/L | 0.040 | 11/07/23 20:17 | |
| EPA 6020B | Cobalt | 0.00054J | mg/L | 0.0050 | 11/07/23 20:17 | |
| EPA 6020B | Molybdenum | 0.25 | mg/L | 0.010 | 11/07/23 20:17 | |
| SM 2540C-2015 | Total Dissolved Solids | 246 | mg/L | 25.0 | 10/27/23 17:56 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 115 | mg/L | 5.0 | 11/01/23 17:42 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 115 | mg/L | 5.0 | 11/01/23 17:42 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 14.2 | mg/L | 1.0 | 10/28/23 17:47 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.46 | mg/L | 0.10 | 10/28/23 17:47 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 69.3 | mg/L | 1.0 | 10/28/23 17:47 | |
| 92695422004 | HAM-PT-10 | | | | | |
| EPA 6010D | Iron | 0.91 | mg/L | 0.040 | 11/10/23 13:53 | |
| EPA 6010D | Manganese | 0.95 | mg/L | 0.040 | 11/10/23 13:53 | |
| EPA 6010D | Potassium | 7.0 | mg/L | 0.50 | 11/10/23 13:53 | |
| EPA 6010D | Sodium | 7.3 | mg/L | 1.0 | 11/10/23 13:53 | |
| EPA 6010D | Calcium | 90.6 | mg/L | 1.0 | 11/10/23 13:53 | |
| EPA 6010D | Magnesium | 12.1 | mg/L | 0.050 | 11/10/23 13:53 | |
| EPA 6020B | Arsenic | 0.00085J | mg/L | 0.010 | 11/07/23 20:21 | |
| EPA 6020B | Barium | 0.056 | mg/L | 0.0050 | 11/07/23 20:21 | |
| EPA 6020B | Boron | 1.3 | mg/L | 0.040 | 11/07/23 20:21 | |
| EPA 6020B | Cobalt | 0.0016J | mg/L | 0.0050 | 11/07/23 20:21 | |
| EPA 6020B | Lithium | 0.0016J | mg/L | 0.030 | 11/07/23 20:21 | |
| EPA 6020B | Molybdenum | 0.22 | mg/L | 0.010 | 11/07/23 20:21 | |
| SM 2540C-2015 | Total Dissolved Solids | 402 | mg/L | 25.0 | 10/27/23 17:51 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 141 | mg/L | 5.0 | 11/01/23 17:51 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 141 | mg/L | 5.0 | 11/01/23 17:51 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92695422

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|----------|-------|--------------|----------------|------------|
| 92695422004 | HAM-PT-10 | | | | | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 31.7 | mg/L | 1.0 | 10/28/23 18:27 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.34 | mg/L | 0.10 | 10/28/23 18:27 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 102 | mg/L | 2.0 | 10/29/23 01:54 | |
| 92695422007 | HAM-AP1-FD-01 | | | | | |
| EPA 6010D | Iron | 0.27 | mg/L | 0.040 | 11/10/23 14:17 | |
| EPA 6010D | Manganese | 0.076 | mg/L | 0.040 | 11/10/23 14:17 | |
| EPA 6010D | Potassium | 3.8 | mg/L | 0.50 | 11/10/23 14:17 | |
| EPA 6010D | Sodium | 4.1 | mg/L | 1.0 | 11/10/23 14:17 | |
| EPA 6010D | Calcium | 55.6 | mg/L | 1.0 | 11/10/23 14:17 | |
| EPA 6010D | Magnesium | 13.7 | mg/L | 0.050 | 11/10/23 14:17 | |
| EPA 6020B | Barium | 0.075 | mg/L | 0.0050 | 11/07/23 20:45 | |
| EPA 6020B | Boron | 0.48 | mg/L | 0.040 | 11/07/23 20:45 | |
| EPA 6020B | Cadmium | 0.00010J | mg/L | 0.00050 | 11/07/23 20:45 | |
| EPA 6020B | Cobalt | 0.00056J | mg/L | 0.0050 | 11/07/23 20:45 | |
| EPA 6020B | Molybdenum | 0.24 | mg/L | 0.010 | 11/07/23 20:45 | |
| SM 2540C-2015 | Total Dissolved Solids | 273 | mg/L | 25.0 | 10/27/23 17:57 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 113 | mg/L | 5.0 | 11/01/23 18:20 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 113 | mg/L | 5.0 | 11/01/23 18:20 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 14.0 | mg/L | 1.0 | 10/28/23 19:08 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.42 | mg/L | 0.10 | 10/28/23 19:08 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 68.3 | mg/L | 1.0 | 10/28/23 19:08 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92695422

Sample: HAM-PT-07 Lab ID: 92695422001 Collected: 10/24/23 11:05 Received: 10/25/23 12:16 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|--------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Arsenic | 0.31 | mg/L | 0.10 | 0.0084 | 10 | 10/30/23 13:17 | 11/07/23 20:09 | 7440-38-2 | |
| Boron | 1.1 | mg/L | 0.40 | 0.12 | 10 | 10/30/23 13:17 | 11/07/23 20:09 | 7440-42-8 | |
| Iron | 18.5 | mg/L | 0.40 | 0.075 | 10 | 10/30/23 13:17 | 11/07/23 20:09 | 7439-89-6 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 15.7 | mg/L | 1.0 | 0.60 | 1 | | 10/28/23 16:53 | 16887-00-6 | |
| Fluoride | 0.38 | mg/L | 0.10 | 0.050 | 1 | | 10/28/23 16:53 | 16984-48-8 | |
| Sulfate | 299 | mg/L | 7.0 | 3.5 | 7 | | 10/29/23 00:56 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92695422

Sample: HAM-PT-08 **Lab ID: 92695422002** Collected: 10/24/23 14:17 Received: 10/25/23 12:16 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|---------|-------------|------|------|--------|----|----------------|----------------|-----------|--|
| Arsenic | 0.28 | mg/L | 0.10 | 0.0084 | 10 | 10/30/23 13:17 | 11/07/23 20:13 | 7440-38-2 | |
| Boron | 1.1 | mg/L | 0.40 | 0.12 | 10 | 10/30/23 13:17 | 11/07/23 20:13 | 7440-42-8 | |
| Iron | 8.0 | mg/L | 0.40 | 0.075 | 10 | 10/30/23 13:17 | 11/07/23 20:13 | 7439-89-6 | |

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Chloride | 17.6 | mg/L | 1.0 | 0.60 | 1 | | 10/28/23 17:07 | 16887-00-6 | |
| Fluoride | 0.30 | mg/L | 0.10 | 0.050 | 1 | | 10/28/23 17:07 | 16984-48-8 | |
| Sulfate | 238 | mg/L | 5.0 | 2.5 | 5 | | 10/29/23 01:10 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92695422

| Sample: HAM-PT-09 Lab ID: 92695422003 Collected: 10/24/23 16:15 Received: 10/25/23 12:16 Matrix: Water | | | | | | | | | |
|--|----------|-------|--------------|----------|----|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.40 | mg/L | 0.040 | 0.025 | 1 | 11/03/23 16:00 | 11/10/23 13:34 | 7439-89-6 | |
| Manganese | 0.076 | mg/L | 0.040 | 0.011 | 1 | 11/03/23 16:00 | 11/10/23 13:34 | 7439-96-5 | |
| Potassium | 3.8 | mg/L | 0.50 | 0.15 | 1 | 11/03/23 16:00 | 11/10/23 13:34 | 7440-09-7 | |
| Sodium | 4.1 | mg/L | 1.0 | 0.58 | 1 | 11/03/23 16:00 | 11/10/23 13:34 | 7440-23-5 | |
| Calcium | 56.2 | mg/L | 1.0 | 0.12 | 1 | 11/03/23 16:00 | 11/10/23 13:34 | 7440-70-2 | M1 |
| Magnesium | 13.7 | mg/L | 0.050 | 0.012 | 1 | 11/03/23 16:00 | 11/10/23 13:34 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 10/30/23 13:17 | 11/07/23 20:17 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.00084 | 1 | 10/30/23 13:17 | 11/07/23 20:17 | 7440-38-2 | |
| Barium | 0.079 | mg/L | 0.0050 | 0.00047 | 1 | 10/30/23 13:17 | 11/07/23 20:17 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 10/30/23 13:17 | 11/07/23 20:17 | 7440-41-7 | |
| Boron | 0.50 | mg/L | 0.040 | 0.012 | 1 | 10/30/23 13:17 | 11/07/23 20:17 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 10/30/23 13:17 | 11/07/23 20:17 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 10/30/23 13:17 | 11/07/23 20:17 | 7440-47-3 | |
| Cobalt | 0.00054J | mg/L | 0.0050 | 0.00032 | 1 | 10/30/23 13:17 | 11/07/23 20:17 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 10/30/23 13:17 | 11/07/23 20:17 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 10/30/23 13:17 | 11/07/23 20:17 | 7439-93-2 | |
| Molybdenum | 0.25 | mg/L | 0.010 | 0.00062 | 1 | 10/30/23 13:17 | 11/07/23 20:17 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 10/30/23 13:17 | 11/07/23 20:17 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 10/30/23 13:17 | 11/07/23 20:17 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 11/06/23 11:30 | 11/06/23 13:11 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 246 | mg/L | 25.0 | 25.0 | 1 | | 10/27/23 17:56 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 115 | mg/L | 5.0 | 5.0 | 1 | | 11/01/23 17:42 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/01/23 17:42 | | |
| Alkalinity, Total as CaCO3 | 115 | mg/L | 5.0 | 5.0 | 1 | | 11/01/23 17:42 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 10/31/23 06:12 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 14.2 | mg/L | 1.0 | 0.60 | 1 | | 10/28/23 17:47 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92695422

Sample: HAM-PT-09 Lab ID: 92695422003 Collected: 10/24/23 16:15 Received: 10/25/23 12:16 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.46 | mg/L | 0.10 | 0.050 | 1 | | 10/28/23 17:47 | 16984-48-8 | |
| Sulfate | 69.3 | mg/L | 1.0 | 0.50 | 1 | | 10/28/23 17:47 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92695422

| Sample: HAM-PT-10 | | Lab ID: 92695422004 | | Collected: 10/24/23 17:15 | | Received: 10/25/23 12:16 | | Matrix: Water | | |
|-------------------------------------|----------|--|---------|---------------------------|----|--------------------------|----------------|---------------|-------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Iron | 0.91 | mg/L | 0.040 | 0.025 | 1 | 11/03/23 16:00 | 11/10/23 13:53 | 7439-89-6 | | |
| Manganese | 0.95 | mg/L | 0.040 | 0.011 | 1 | 11/03/23 16:00 | 11/10/23 13:53 | 7439-96-5 | | |
| Potassium | 7.0 | mg/L | 0.50 | 0.15 | 1 | 11/03/23 16:00 | 11/10/23 13:53 | 7440-09-7 | | |
| Sodium | 7.3 | mg/L | 1.0 | 0.58 | 1 | 11/03/23 16:00 | 11/10/23 13:53 | 7440-23-5 | | |
| Calcium | 90.6 | mg/L | 1.0 | 0.12 | 1 | 11/03/23 16:00 | 11/10/23 13:53 | 7440-70-2 | | |
| Magnesium | 12.1 | mg/L | 0.050 | 0.012 | 1 | 11/03/23 16:00 | 11/10/23 13:53 | 7439-95-4 | | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 10/30/23 13:17 | 11/07/23 20:21 | 7440-36-0 | | |
| Arsenic | 0.00085J | mg/L | 0.010 | 0.00084 | 1 | 10/30/23 13:17 | 11/07/23 20:21 | 7440-38-2 | | |
| Barium | 0.056 | mg/L | 0.0050 | 0.00047 | 1 | 10/30/23 13:17 | 11/07/23 20:21 | 7440-39-3 | | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 10/30/23 13:17 | 11/07/23 20:21 | 7440-41-7 | | |
| Boron | 1.3 | mg/L | 0.040 | 0.012 | 1 | 10/30/23 13:17 | 11/07/23 20:21 | 7440-42-8 | | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 10/30/23 13:17 | 11/07/23 20:21 | 7440-43-9 | | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 10/30/23 13:17 | 11/07/23 20:21 | 7440-47-3 | | |
| Cobalt | 0.0016J | mg/L | 0.0050 | 0.00032 | 1 | 10/30/23 13:17 | 11/07/23 20:21 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 10/30/23 13:17 | 11/07/23 20:21 | 7439-92-1 | | |
| Lithium | 0.0016J | mg/L | 0.030 | 0.0016 | 1 | 10/30/23 13:17 | 11/07/23 20:21 | 7439-93-2 | | |
| Molybdenum | 0.22 | mg/L | 0.010 | 0.00062 | 1 | 10/30/23 13:17 | 11/07/23 20:21 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 10/30/23 13:17 | 11/07/23 20:21 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 10/30/23 13:17 | 11/07/23 20:21 | 7440-28-0 | | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 11/06/23 11:30 | 11/06/23 13:13 | 7439-97-6 | M1,R1 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | 402 | mg/L | 25.0 | 25.0 | 1 | | 10/27/23 17:57 | | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 141 | mg/L | 5.0 | 5.0 | 1 | | 11/01/23 17:51 | | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/01/23 17:51 | | | |
| Alkalinity, Total as CaCO3 | 141 | mg/L | 5.0 | 5.0 | 1 | | 11/01/23 17:51 | | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 10/31/23 06:13 | 18496-25-8 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | 31.7 | mg/L | 1.0 | 0.60 | 1 | | 10/28/23 18:27 | 16887-00-6 | | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92695422

Sample: HAM-PT-10 Lab ID: 92695422004 Collected: 10/24/23 17:15 Received: 10/25/23 12:16 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Fluoride | 0.34 | mg/L | 0.10 | 0.050 | 1 | | 10/28/23 18:27 | 16984-48-8 | |
| Sulfate | 102 | mg/L | 2.0 | 1.0 | 2 | | 10/29/23 01:54 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92695422

| Sample: HAM-AP1-EB-01 | | Lab ID: 92695422005 | | Collected: 10/24/23 18:35 | | Received: 10/25/23 12:16 | | Matrix: Water | |
|-------------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 11/03/23 16:00 | 11/10/23 13:58 | 7439-89-6 | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 11/03/23 16:00 | 11/10/23 13:58 | 7439-96-5 | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 11/03/23 16:00 | 11/10/23 13:58 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 11/03/23 16:00 | 11/10/23 13:58 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 11/03/23 16:00 | 11/10/23 13:58 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 11/03/23 16:00 | 11/10/23 13:58 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 10/30/23 13:17 | 11/07/23 20:29 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.00084 | 1 | 10/30/23 13:17 | 11/07/23 20:29 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00047 | 1 | 10/30/23 13:17 | 11/07/23 20:29 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 10/30/23 13:17 | 11/07/23 20:29 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 10/30/23 13:17 | 11/07/23 20:29 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 10/30/23 13:17 | 11/07/23 20:29 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 10/30/23 13:17 | 11/07/23 20:29 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 10/30/23 13:17 | 11/07/23 20:29 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 10/30/23 13:17 | 11/07/23 20:29 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 10/30/23 13:17 | 11/07/23 20:29 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 10/30/23 13:17 | 11/07/23 20:29 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 10/30/23 13:17 | 11/07/23 20:29 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 10/30/23 13:17 | 11/07/23 20:29 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 11/06/23 11:30 | 11/06/23 13:30 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 10/27/23 17:57 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/01/23 18:02 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/01/23 18:02 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 11/01/23 18:02 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 10/31/23 06:14 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 10/28/23 15:46 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92695422

Sample: HAM-AP1-EB-01 Lab ID: 92695422005 Collected: 10/24/23 18:35 Received: 10/25/23 12:16 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----------------|-------|----|----------|----------------|------------|------|
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 10/28/23 15:46 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 10/28/23 15:46 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92695422

Sample: HAM-AP1-FB-01 Lab ID: 92695422006 Collected: 10/24/23 18:25 Received: 10/25/23 12:16 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 11/03/23 16:00 | 11/10/23 14:12 | 7439-89-6 | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 11/03/23 16:00 | 11/10/23 14:12 | 7439-96-5 | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 11/03/23 16:00 | 11/10/23 14:12 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 11/03/23 16:00 | 11/10/23 14:12 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 11/03/23 16:00 | 11/10/23 14:12 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 11/03/23 16:00 | 11/10/23 14:12 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 10/30/23 13:17 | 11/07/23 20:41 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.00084 | 1 | 10/30/23 13:17 | 11/07/23 20:41 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00047 | 1 | 10/30/23 13:17 | 11/07/23 20:41 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 10/30/23 13:17 | 11/07/23 20:41 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 10/30/23 13:17 | 11/07/23 20:41 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 10/30/23 13:17 | 11/07/23 20:41 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 10/30/23 13:17 | 11/07/23 20:41 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 10/30/23 13:17 | 11/07/23 20:41 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 10/30/23 13:17 | 11/07/23 20:41 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 10/30/23 13:17 | 11/07/23 20:41 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 10/30/23 13:17 | 11/07/23 20:41 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 10/30/23 13:17 | 11/07/23 20:41 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 10/30/23 13:17 | 11/07/23 20:41 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 11/06/23 11:30 | 11/06/23 13:32 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 10/27/23 17:57 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/01/23 18:06 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/01/23 18:06 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 11/01/23 18:06 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 10/31/23 06:14 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 10/28/23 16:00 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92695422

Sample: HAM-AP1-FB-01 Lab ID: 92695422006 Collected: 10/24/23 18:25 Received: 10/25/23 12:16 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 10/28/23 16:00 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 10/28/23 16:00 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92695422

Sample: HAM-AP1-FD-01 Lab ID: 92695422007 Collected: 10/24/23 00:00 Received: 10/25/23 12:16 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|----------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.27 | mg/L | 0.040 | 0.025 | 1 | 11/03/23 16:00 | 11/10/23 14:17 | 7439-89-6 | |
| Manganese | 0.076 | mg/L | 0.040 | 0.011 | 1 | 11/03/23 16:00 | 11/10/23 14:17 | 7439-96-5 | |
| Potassium | 3.8 | mg/L | 0.50 | 0.15 | 1 | 11/03/23 16:00 | 11/10/23 14:17 | 7440-09-7 | |
| Sodium | 4.1 | mg/L | 1.0 | 0.58 | 1 | 11/03/23 16:00 | 11/10/23 14:17 | 7440-23-5 | |
| Calcium | 55.6 | mg/L | 1.0 | 0.12 | 1 | 11/03/23 16:00 | 11/10/23 14:17 | 7440-70-2 | |
| Magnesium | 13.7 | mg/L | 0.050 | 0.012 | 1 | 11/03/23 16:00 | 11/10/23 14:17 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 10/30/23 13:17 | 11/07/23 20:45 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.00084 | 1 | 10/30/23 13:17 | 11/07/23 20:45 | 7440-38-2 | |
| Barium | 0.075 | mg/L | 0.0050 | 0.00047 | 1 | 10/30/23 13:17 | 11/07/23 20:45 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 10/30/23 13:17 | 11/07/23 20:45 | 7440-41-7 | |
| Boron | 0.48 | mg/L | 0.040 | 0.012 | 1 | 10/30/23 13:17 | 11/07/23 20:45 | 7440-42-8 | |
| Cadmium | 0.00010J | mg/L | 0.00050 | 0.00010 | 1 | 10/30/23 13:17 | 11/07/23 20:45 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 10/30/23 13:17 | 11/07/23 20:45 | 7440-47-3 | |
| Cobalt | 0.00056J | mg/L | 0.0050 | 0.00032 | 1 | 10/30/23 13:17 | 11/07/23 20:45 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 10/30/23 13:17 | 11/07/23 20:45 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 10/30/23 13:17 | 11/07/23 20:45 | 7439-93-2 | |
| Molybdenum | 0.24 | mg/L | 0.010 | 0.00062 | 1 | 10/30/23 13:17 | 11/07/23 20:45 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 10/30/23 13:17 | 11/07/23 20:45 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 10/30/23 13:17 | 11/07/23 20:45 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 11/06/23 11:30 | 11/06/23 13:35 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 273 | mg/L | 25.0 | 25.0 | 1 | | 10/27/23 17:57 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 113 | mg/L | 5.0 | 5.0 | 1 | | 11/01/23 18:20 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/01/23 18:20 | | |
| Alkalinity, Total as CaCO3 | 113 | mg/L | 5.0 | 5.0 | 1 | | 11/01/23 18:20 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 10/31/23 06:14 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 14.0 | mg/L | 1.0 | 0.60 | 1 | | 10/28/23 19:08 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92695422

Sample: HAM-AP1-FD-01 Lab ID: 92695422007 Collected: 10/24/23 00:00 Received: 10/25/23 12:16 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------------|-------|----|----------|----------------|------------|------|
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Fluoride | 0.42 | mg/L | 0.10 | 0.050 | 1 | | 10/28/23 19:08 | 16984-48-8 | |
| Sulfate | 68.3 | mg/L | 1.0 | 0.50 | 1 | | 10/28/23 19:08 | 14808-79-8 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92695422

| | | | |
|-------------------------|---|-----------------------|--|
| QC Batch: | 810854 | Analysis Method: | EPA 6010D |
| QC Batch Method: | EPA 3010A | Analysis Description: | 6010D ATL |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |
| Associated Lab Samples: | 92695422003, 92695422004, 92695422005, 92695422006, 92695422007 | | |

| | | | |
|-------------------------|---|---------|-------|
| METHOD BLANK: | 4198107 | Matrix: | Water |
| Associated Lab Samples: | 92695422003, 92695422004, 92695422005, 92695422006, 92695422007 | | |

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 11/10/23 13:22 | |
| Iron | mg/L | ND | 0.040 | 0.025 | 11/10/23 13:22 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 11/10/23 13:22 | |
| Manganese | mg/L | ND | 0.040 | 0.011 | 11/10/23 13:22 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 11/10/23 13:22 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 11/10/23 13:22 | |

| LABORATORY CONTROL SAMPLE: 4198108 | | | | | | |
|------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
| Calcium | mg/L | 1 | 1.0 | 100 | 80-120 | |
| Iron | mg/L | 1 | 1.0 | 102 | 80-120 | |
| Magnesium | mg/L | 1 | 1.1 | 108 | 80-120 | |
| Manganese | mg/L | 1 | 1.0 | 101 | 80-120 | |
| Potassium | mg/L | 1 | 1.2 | 115 | 80-120 | |
| Sodium | mg/L | 1 | 1.2 | 116 | 80-120 | |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4198109 4198110 | | | | | | | | | | | | | |
|--|-------|-------------|-------------|-------------|--------|--------|-------|-------|--------|--------------|-----|---------|------|
| Parameter | Units | MS | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
| | | 92695422003 | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec | | | | | |
| Calcium | mg/L | 56.2 | 1 | 1 | 55.9 | 57.8 | -21 | 160 | 75-125 | 3 | 20 | M1 | |
| Iron | mg/L | 0.40 | 1 | 1 | 1.3 | 1.4 | 89 | 96 | 75-125 | 6 | 20 | | |
| Magnesium | mg/L | 13.7 | 1 | 1 | 14.6 | 14.8 | 86 | 110 | 75-125 | 2 | 20 | | |
| Manganese | mg/L | 0.076 | 1 | 1 | 1.1 | 1.1 | 97 | 100 | 75-125 | 2 | 20 | | |
| Potassium | mg/L | 3.8 | 1 | 1 | 5.0 | 5.1 | 117 | 124 | 75-125 | 2 | 20 | | |
| Sodium | mg/L | 4.1 | 1 | 1 | 5.2 | 5.3 | 112 | 118 | 75-125 | 1 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92695422

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 809740 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6020 MET |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92695422001, 92695422002, 92695422003, 92695422004, 92695422005, 92695422006, 92695422007

METHOD BLANK: 4192374 Matrix: Water

Associated Lab Samples: 92695422001, 92695422002, 92695422003, 92695422004, 92695422005, 92695422006, 92695422007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00054 | 11/07/23 19:05 | |
| Arsenic | mg/L | ND | 0.010 | 0.00084 | 11/07/23 19:05 | |
| Barium | mg/L | ND | 0.0050 | 0.00047 | 11/07/23 19:05 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000094 | 11/07/23 19:05 | |
| Boron | mg/L | ND | 0.040 | 0.012 | 11/07/23 19:05 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00010 | 11/07/23 19:05 | |
| Chromium | mg/L | ND | 0.0050 | 0.0019 | 11/07/23 19:05 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00032 | 11/07/23 19:05 | |
| Iron | mg/L | ND | 0.040 | 0.0075 | 11/07/23 19:05 | |
| Lead | mg/L | ND | 0.0010 | 0.00016 | 11/07/23 19:05 | |
| Lithium | mg/L | ND | 0.030 | 0.0016 | 11/07/23 19:05 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00062 | 11/07/23 19:05 | |
| Selenium | mg/L | ND | 0.0050 | 0.00096 | 11/07/23 19:05 | |
| Thallium | mg/L | ND | 0.0010 | 0.00038 | 11/07/23 19:05 | |

LABORATORY CONTROL SAMPLE: 4192375

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Barium | mg/L | 0.1 | 0.093 | 93 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Boron | mg/L | 1 | 0.99 | 99 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.097 | 97 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.097 | 97 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.097 | 97 | 80-120 | |
| Iron | mg/L | 1 | 0.97 | 97 | 80-120 | |
| Lead | mg/L | 0.1 | 0.096 | 96 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.095 | 95 | 80-120 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92695422

| Parameter | Units | 4192376 | | 4192377 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 92695189001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 107 | 105 | 75-125 | 2 | 20 | | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 107 | 108 | 75-125 | 1 | 20 | | |
| Barium | mg/L | 0.096 | 0.1 | 0.1 | 0.19 | 0.19 | 93 | 94 | 75-125 | 1 | 20 | | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 104 | 103 | 75-125 | 1 | 20 | | |
| Boron | mg/L | 2.5 | 1 | 1 | 3.4 | 3.4 | 91 | 89 | 75-125 | 1 | 20 | | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.097 | 0.097 | 97 | 97 | 75-125 | 1 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 108 | 108 | 75-125 | 0 | 20 | | |
| Cobalt | mg/L | 0.0044J | 0.1 | 0.1 | 0.11 | 0.11 | 105 | 104 | 75-125 | 1 | 20 | | |
| Iron | mg/L | 0.10J | 1 | 1 | 1.2 | 1.1 | 105 | 104 | 75-125 | 1 | 20 | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.093 | 95 | 93 | 75-125 | 2 | 20 | | |
| Lithium | mg/L | ND | 0.1 | 0.1 | 0.11J | 0.11J | 107 | 105 | 75-125 | | 20 | | |
| Molybdenum | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 108 | 107 | 75-125 | 1 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 109 | 102 | 75-125 | 6 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.094 | 0.093 | 93 | 92 | 75-125 | 1 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92695422

| | |
|----------------------------|--|
| QC Batch: 811152 | Analysis Method: EPA 7470A |
| QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury |
| | Laboratory: Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92695422003, 92695422004, 92695422005, 92695422006, 92695422007

METHOD BLANK: 4199578 Matrix: Water
 Associated Lab Samples: 92695422003, 92695422004, 92695422005, 92695422006, 92695422007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00020 | 0.00013 | 11/06/23 13:05 | |

LABORATORY CONTROL SAMPLE: 4199579

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0025 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4199580 4199581

| Parameter | Units | 4199580 | | 4199581 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|-------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Mercury | mg/L | ND | 0.0025 | 0.0038 | 0.0025 | 152 | 100 | 75-125 | 41 | 20 | M1,R1 |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92695422

| | | | |
|------------------|---------------|-----------------------|--|
| QC Batch: | 809392 | Analysis Method: | SM 2540C-2015 |
| QC Batch Method: | SM 2540C-2015 | Analysis Description: | 2540C Total Dissolved Solids |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92695422003, 92695422004, 92695422005, 92695422006, 92695422007

METHOD BLANK: 4191113 Matrix: Water
 Associated Lab Samples: 92695422003, 92695422004, 92695422005, 92695422006, 92695422007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 10/27/23 17:54 | |

LABORATORY CONTROL SAMPLE: 4191114

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 422 | 106 | 80-120 | |

SAMPLE DUPLICATE: 4191115

| Parameter | Units | 92695061001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 122 | 103 | 17 | 10 | D6 |

SAMPLE DUPLICATE: 4191116

| Parameter | Units | 92695478001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | ND | ND | | 10 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92695422

QC Batch: 810246 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92695422003, 92695422004, 92695422005, 92695422006, 92695422007

METHOD BLANK: 4195003 Matrix: Water
 Associated Lab Samples: 92695422003, 92695422004, 92695422005, 92695422006, 92695422007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 11/01/23 15:09 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 11/01/23 15:09 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 11/01/23 15:09 | |

LABORATORY CONTROL SAMPLE: 4195004

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 50.5 | 101 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4195005

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 50.7 | 101 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4195006 4195007

| Parameter | Units | 4195006 | | 4195007 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|-----|---------|------|
| | | 92695422007 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 113 | 50 | 50 | 162 | 99 | 109 | 80-120 | 3 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4195008 4195009

| Parameter | Units | 4195008 | | 4195009 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|-----|---------|------|
| | | 92695478001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | ND | 50 | 50 | 51.8 | 99 | 100 | 80-120 | 1 | 25 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92695422

QC Batch: 809864 Analysis Method: SM 4500-S2D-2011
 QC Batch Method: SM 4500-S2D-2011 Analysis Description: 4500S2D Sulfide Water
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92695422003, 92695422004, 92695422005, 92695422006, 92695422007

METHOD BLANK: 4193045 Matrix: Water
 Associated Lab Samples: 92695422003, 92695422004, 92695422005, 92695422006, 92695422007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide | mg/L | ND | 0.10 | 0.022 | 10/31/23 06:08 | |

LABORATORY CONTROL SAMPLE: 4193046

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide | mg/L | 0.5 | 0.50 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4193047 4193048

| Parameter | Units | 92695338008 | | 4193048 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-----------------|-----------|-----------------|-------|-------|--------------|--------|---------|------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.46 | 0.49 | 92 | 97 | 80-120 | 5 | 10 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4193049 4193050

| Parameter | Units | 92695416002 | | 4193050 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-----------------|-----------|-----------------|-------|-------|--------------|--------|---------|------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.57 | 0.56 | 114 | 113 | 80-120 | 1 | 10 |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92695422

| | | | |
|------------------|------------------------|-----------------------|--------------------------------------|
| QC Batch: | 809559 | Analysis Method: | EPA 300.0 Rev 2.1 1993 |
| QC Batch Method: | EPA 300.0 Rev 2.1 1993 | Analysis Description: | 300.0 IC Anions |
| | | Laboratory: | Pace Analytical Services - Asheville |

Associated Lab Samples: 92695422001, 92695422002, 92695422003, 92695422004, 92695422005, 92695422006, 92695422007

METHOD BLANK: 4191808 Matrix: Water
 Associated Lab Samples: 92695422001, 92695422002, 92695422003, 92695422004, 92695422005, 92695422006, 92695422007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 10/28/23 14:52 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 10/28/23 14:52 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 10/28/23 14:52 | |

LABORATORY CONTROL SAMPLE: 4191809

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 52.1 | 104 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.6 | 104 | 90-110 | |
| Sulfate | mg/L | 50 | 51.6 | 103 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4191810 4191811

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|--------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92691615001 Result | Spike Conc. | Spike Conc. | Result | | | | | | | | |
| Chloride | mg/L | 158 | 50 | 50 | 202 | 202 | 89 | 89 | 90-110 | 0 | 10 | M1 | |
| Fluoride | mg/L | 18.8 | 2.5 | 2.5 | 20.9 | 20.9 | 86 | 85 | 90-110 | 0 | 10 | M1 | |
| Sulfate | mg/L | 1350 | 50 | 50 | 1390 | 1390 | 80 | 69 | 90-110 | 0 | 10 | M1 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4191812 4191813

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|--------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92695422004 Result | Spike Conc. | Spike Conc. | Result | | | | | | | | |
| Chloride | mg/L | 31.7 | 50 | 50 | 85.2 | 86.3 | 107 | 109 | 90-110 | 1 | 10 | | |
| Fluoride | mg/L | 0.34 | 2.5 | 2.5 | 3.0 | 3.0 | 105 | 108 | 90-110 | 2 | 10 | | |
| Sulfate | mg/L | 102 | 50 | 50 | 152 | 152 | 100 | 100 | 90-110 | 0 | 10 | | |

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QUALIFIERS

Project: Hammond AP-1

Pace Project No.: 92695422

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1

Pace Project No.: 92695422

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|------------------------|----------|-------------------|------------------|
| 92695422003 | HAM-PT-09 | EPA 3010A | 810854 | EPA 6010D | 810992 |
| 92695422004 | HAM-PT-10 | EPA 3010A | 810854 | EPA 6010D | 810992 |
| 92695422005 | HAM-AP1-EB-01 | EPA 3010A | 810854 | EPA 6010D | 810992 |
| 92695422006 | HAM-AP1-FB-01 | EPA 3010A | 810854 | EPA 6010D | 810992 |
| 92695422007 | HAM-AP1-FD-01 | EPA 3010A | 810854 | EPA 6010D | 810992 |
| 92695422001 | HAM-PT-07 | EPA 3005A | 809740 | EPA 6020B | 809832 |
| 92695422002 | HAM-PT-08 | EPA 3005A | 809740 | EPA 6020B | 809832 |
| 92695422003 | HAM-PT-09 | EPA 3005A | 809740 | EPA 6020B | 809832 |
| 92695422004 | HAM-PT-10 | EPA 3005A | 809740 | EPA 6020B | 809832 |
| 92695422005 | HAM-AP1-EB-01 | EPA 3005A | 809740 | EPA 6020B | 809832 |
| 92695422006 | HAM-AP1-FB-01 | EPA 3005A | 809740 | EPA 6020B | 809832 |
| 92695422007 | HAM-AP1-FD-01 | EPA 3005A | 809740 | EPA 6020B | 809832 |
| 92695422003 | HAM-PT-09 | EPA 7470A | 811152 | EPA 7470A | 811235 |
| 92695422004 | HAM-PT-10 | EPA 7470A | 811152 | EPA 7470A | 811235 |
| 92695422005 | HAM-AP1-EB-01 | EPA 7470A | 811152 | EPA 7470A | 811235 |
| 92695422006 | HAM-AP1-FB-01 | EPA 7470A | 811152 | EPA 7470A | 811235 |
| 92695422007 | HAM-AP1-FD-01 | EPA 7470A | 811152 | EPA 7470A | 811235 |
| 92695422003 | HAM-PT-09 | SM 2540C-2015 | 809392 | | |
| 92695422004 | HAM-PT-10 | SM 2540C-2015 | 809392 | | |
| 92695422005 | HAM-AP1-EB-01 | SM 2540C-2015 | 809392 | | |
| 92695422006 | HAM-AP1-FB-01 | SM 2540C-2015 | 809392 | | |
| 92695422007 | HAM-AP1-FD-01 | SM 2540C-2015 | 809392 | | |
| 92695422003 | HAM-PT-09 | SM 2320B-2011 | 810246 | | |
| 92695422004 | HAM-PT-10 | SM 2320B-2011 | 810246 | | |
| 92695422005 | HAM-AP1-EB-01 | SM 2320B-2011 | 810246 | | |
| 92695422006 | HAM-AP1-FB-01 | SM 2320B-2011 | 810246 | | |
| 92695422007 | HAM-AP1-FD-01 | SM 2320B-2011 | 810246 | | |
| 92695422003 | HAM-PT-09 | SM 4500-S2D-2011 | 809864 | | |
| 92695422004 | HAM-PT-10 | SM 4500-S2D-2011 | 809864 | | |
| 92695422005 | HAM-AP1-EB-01 | SM 4500-S2D-2011 | 809864 | | |
| 92695422006 | HAM-AP1-FB-01 | SM 4500-S2D-2011 | 809864 | | |
| 92695422007 | HAM-AP1-FD-01 | SM 4500-S2D-2011 | 809864 | | |
| 92695422001 | HAM-PT-07 | EPA 300.0 Rev 2.1 1993 | 809559 | | |
| 92695422002 | HAM-PT-08 | EPA 300.0 Rev 2.1 1993 | 809559 | | |
| 92695422003 | HAM-PT-09 | EPA 300.0 Rev 2.1 1993 | 809559 | | |
| 92695422004 | HAM-PT-10 | EPA 300.0 Rev 2.1 1993 | 809559 | | |
| 92695422005 | HAM-AP1-EB-01 | EPA 300.0 Rev 2.1 1993 | 809559 | | |
| 92695422006 | HAM-AP1-FB-01 | EPA 300.0 Rev 2.1 1993 | 809559 | | |
| 92695422007 | HAM-AP1-FD-01 | EPA 300.0 Rev 2.1 1993 | 809559 | | |

REPORT OF LABORATORY ANALYSIS

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Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Be Power

Project #:

[Empty Project # box]

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 11-25-23 JCC

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer:

HR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 1.1 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.1

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | Comments/Discrepancy: |
|--|---|-----------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: <u>W</u> | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|--|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

| | | | | | | | |
|---|--|--|--|---|--|---|--|
| Section A Required Client Information | | Section B Required Project Information | | Section C Invoice Information | | | |
| Company: GA Power | | Report To: SCS Contacts | | Attention: Southern Co | | | |
| Address: Atlanta, GA | | Copy To: Geosyntec Contacts | | Company Name: | | REGULATORY AGENCY | |
| Email To: SCS Contacts | | Purchase Order No.: GPC82474-0001 | | Address: | | <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> CCR | |
| Phone: Fax: | | Project Name: Hammond AP-1 | | Pace Quote Reference: | | Site Location: | |
| Requested Due Date/TAT: 5 day | | Project Number: | | Pace Project Manager: Bonnie Vang | | STATE: <u>GA</u> | |
| | | | | Pace Profile #: 10839 | | | |

| ITEM # | Section D Required Client Information | Valid Matrix Codes MATRIX CODE | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G-GRAB C=COMP) | COLLECTED | | | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | | Analysis Test | Y/N | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. | | | | | | | |
|--------|--|-----------------------------------|---------------------------------------|-----------------------------|------------|------|-----------|------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|----------|---------------|-----|-------------------------|----------------------------|-------|-----------------------------|-----------------------------|------------------------------|-----|----------------------|---------|
| | | | | | COMPOSITE | | LOMPOSITE | | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₃ | Methanol | | | | | Other | Chloride, Fluoride, Sulfate | Full App. III and IV metals | Major Ions (Profile 10839-2) | TDS | Arsenic, Boron, Iron | Sulfate |
| | | | | | DATE | TIME | DATE | TIME | | | | | | | | | | | | | | | | | | | | |
| 1 | HAM-PT-07 | WG | G | | 10/24/2023 | 1105 | | | 21 | 2 | 1 | 1 | | | | | | | | | | | | | N | 001 | | |
| 2 | HAM-PT-08 | WG | G | | 10/24/2023 | 1417 | | | 19 | 2 | 1 | 1 | | | | | | | | | | | | | | N | 002 | |
| 3 | HAM-PT-09 | WG | G | | 10/24/2023 | 1615 | | | 21 | 5 | 3 | 1 | | | | | | | | | | | | | | N | 003 | |
| 4 | HAM-PT-10 | WG | G | | 10/24/2023 | 1715 | | | 20 | 5 | 3 | 1 | | | | | | | | | | | | | | N | 004 | |
| 5 | HAM-AP1-EB-01 | WG | G | | 10/24/2023 | 1635 | | | 20 | 5 | 3 | 1 | | | | | | | | | | | | | | N | 005 | |
| 6 | HAM-AP1-FB-01 | WG | G | | 10/24/2023 | 1625 | | | 20 | 5 | 3 | 1 | | | | | | | | | | | | | | N | 006 | |
| 7 | HAM-AP1-FD-01 | WG | G | | 10/24/2023 | 0000 | | | 20 | 5 | 3 | 1 | | | | | | | | | | | | | | N | 007 | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|--------------------------------|-------------------------------|----------|-------|---------------------------|----------|------|-------------------|
| Task Code: HAM-CCR-CA-20231024 | Zain Webb Geosyntec | 10/25/23 | 12:16 | Kyan Williams / Pace | 10/25/23 | 1216 | |
| | Kyan Williams / Pace | 10/25/23 | 1405 | [Signature] | 10/25/23 | 1405 | |

| | | | | | |
|---|----------------------------------|------------|-----------------------|-----------------------------|----------------------|
| 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: Alex Brown / Geosyntec Consultants, Inc. | | | | | |
| SIGNATURE of SAMPLER: [Signature] | DATE Signed (MM/DD/YY): 10/24/23 | | | | |



November 14, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92696318

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on November 01, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec
Anthony Szwast, Geosyntec Consultants



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-1
Pace Project No.: 92696318

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92696318

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------|--------|----------------|----------------|
| 92696318001 | HAM-PT-07 | Water | 10/31/23 11:51 | 11/01/23 12:05 |
| 92696318002 | HAM-PT-08 | Water | 10/31/23 15:31 | 11/01/23 12:05 |
| 92696318003 | HAM-PT-09 | Water | 10/31/23 16:07 | 11/01/23 12:05 |
| 92696318004 | HAM-PT-10 | Water | 10/31/23 13:12 | 11/01/23 12:05 |
| 92696318005 | HAM-AP1-EB-01 | Water | 10/31/23 17:00 | 11/01/23 12:05 |
| 92696318006 | HAM-AP1-FB-01 | Water | 10/31/23 16:45 | 11/01/23 12:05 |
| 92696318007 | HAM-AP1-FD-01 | Water | 10/31/23 00:00 | 11/01/23 12:05 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1

Pace Project No.: 92696318

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------|------------------------|----------|-------------------|
| 92696318001 | HAM-PT-07 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92696318002 | HAM-PT-08 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92696318003 | HAM-PT-09 | EPA 6020B | CW1 | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 |
| 92696318004 | HAM-PT-10 | EPA 6020B | CW1 | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 |
| 92696318005 | HAM-AP1-EB-01 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92696318006 | HAM-AP1-FB-01 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92696318007 | HAM-AP1-FD-01 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92696318

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|--------|-----------|------------------------|----------|-------------------|
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92696318

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|----------|-------|--------------|----------------|------------|
| 92696318001 | HAM-PT-07 | | | | | |
| EPA 6010D | Iron | 20.0 | mg/L | 0.040 | 11/10/23 14:22 | |
| EPA 6010D | Manganese | 5.1 | mg/L | 0.040 | 11/10/23 14:22 | |
| EPA 6010D | Potassium | 6.9 | mg/L | 0.50 | 11/10/23 14:22 | |
| EPA 6010D | Sodium | 7.6 | mg/L | 1.0 | 11/10/23 14:22 | |
| EPA 6010D | Calcium | 144 | mg/L | 1.0 | 11/10/23 14:22 | |
| EPA 6010D | Magnesium | 17.9 | mg/L | 0.050 | 11/10/23 14:22 | |
| EPA 6020B | Arsenic | 0.34 | mg/L | 0.010 | 11/08/23 19:46 | M1 |
| EPA 6020B | Barium | 0.073 | mg/L | 0.0050 | 11/08/23 19:46 | |
| EPA 6020B | Beryllium | 0.00023J | mg/L | 0.00050 | 11/08/23 19:46 | |
| EPA 6020B | Boron | 1.1 | mg/L | 0.040 | 11/08/23 19:46 | |
| EPA 6020B | Cobalt | 0.081 | mg/L | 0.0050 | 11/08/23 19:46 | |
| EPA 6020B | Lithium | 0.065 | mg/L | 0.030 | 11/08/23 19:46 | |
| EPA 6020B | Molybdenum | 0.014 | mg/L | 0.010 | 11/08/23 19:46 | |
| SM 2540C-2015 | Total Dissolved Solids | 630 | mg/L | 25.0 | 11/02/23 18:02 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 138 | mg/L | 5.0 | 11/02/23 17:24 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 138 | mg/L | 5.0 | 11/02/23 17:24 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 16.5 | mg/L | 1.0 | 11/02/23 03:59 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.36 | mg/L | 0.10 | 11/02/23 03:59 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 291 | mg/L | 6.0 | 11/02/23 07:55 | |
| 92696318002 | HAM-PT-08 | | | | | |
| EPA 6010D | Iron | 5.8 | mg/L | 0.040 | 11/10/23 14:27 | |
| EPA 6010D | Manganese | 2.4 | mg/L | 0.040 | 11/10/23 14:27 | |
| EPA 6010D | Potassium | 6.0 | mg/L | 0.50 | 11/10/23 14:27 | |
| EPA 6010D | Sodium | 8.5 | mg/L | 1.0 | 11/10/23 14:27 | |
| EPA 6010D | Calcium | 115 | mg/L | 1.0 | 11/10/23 14:27 | |
| EPA 6010D | Magnesium | 14.7 | mg/L | 0.050 | 11/10/23 14:27 | |
| EPA 6020B | Antimony | 0.00079J | mg/L | 0.0030 | 11/08/23 20:02 | |
| EPA 6020B | Arsenic | 0.17 | mg/L | 0.010 | 11/08/23 20:02 | |
| EPA 6020B | Barium | 0.051 | mg/L | 0.0050 | 11/08/23 20:02 | |
| EPA 6020B | Beryllium | 0.00017J | mg/L | 0.00050 | 11/08/23 20:02 | |
| EPA 6020B | Boron | 1.1 | mg/L | 0.040 | 11/08/23 20:02 | |
| EPA 6020B | Cobalt | 0.026 | mg/L | 0.0050 | 11/08/23 20:02 | |
| EPA 6020B | Lead | 0.00019J | mg/L | 0.0010 | 11/08/23 20:02 | |
| EPA 6020B | Lithium | 0.013J | mg/L | 0.030 | 11/08/23 20:02 | |
| EPA 6020B | Molybdenum | 0.024 | mg/L | 0.010 | 11/08/23 20:02 | |
| SM 2540C-2015 | Total Dissolved Solids | 484 | mg/L | 25.0 | 11/02/23 18:02 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 126 | mg/L | 5.0 | 11/02/23 17:35 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 126 | mg/L | 5.0 | 11/02/23 17:35 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 21.3 | mg/L | 1.0 | 11/02/23 04:14 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.24 | mg/L | 0.10 | 11/02/23 04:14 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 210 | mg/L | 4.0 | 11/02/23 08:09 | |
| 92696318003 | HAM-PT-09 | | | | | |
| EPA 6020B | Boron | 0.71 | mg/L | 0.040 | 11/08/23 20:19 | |
| EPA 6020B | Iron | 0.067 | mg/L | 0.040 | 11/08/23 20:19 | |
| EPA 6020B | Molybdenum | 0.22 | mg/L | 0.010 | 11/08/23 20:19 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 107 | mg/L | 2.0 | 11/02/23 09:23 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92696318

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|-----------|-------|--------------|----------------|------------|
| 92696318004 | HAM-PT-10 | | | | | |
| EPA 6020B | Boron | 1.1 | mg/L | 0.040 | 11/08/23 20:23 | |
| EPA 6020B | Iron | 0.66 | mg/L | 0.040 | 11/08/23 20:23 | |
| EPA 6020B | Molybdenum | 0.19 | mg/L | 0.010 | 11/08/23 20:23 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 108 | mg/L | 2.0 | 11/02/23 09:38 | |
| 92696318005 | HAM-AP1-EB-01 | | | | | |
| EPA 6020B | Boron | 0.016J | mg/L | 0.040 | 11/08/23 20:27 | |
| 92696318007 | HAM-AP1-FD-01 | | | | | |
| EPA 6010D | Iron | 20.6 | mg/L | 0.040 | 11/10/23 14:46 | |
| EPA 6010D | Manganese | 5.4 | mg/L | 0.040 | 11/10/23 14:46 | |
| EPA 6010D | Potassium | 6.9 | mg/L | 0.50 | 11/10/23 14:46 | |
| EPA 6010D | Sodium | 7.6 | mg/L | 1.0 | 11/10/23 14:46 | |
| EPA 6010D | Calcium | 145 | mg/L | 1.0 | 11/10/23 14:46 | |
| EPA 6010D | Magnesium | 17.8 | mg/L | 0.050 | 11/10/23 14:46 | |
| EPA 6020B | Arsenic | 0.34 | mg/L | 0.010 | 11/08/23 20:35 | |
| EPA 6020B | Barium | 0.067 | mg/L | 0.0050 | 11/08/23 20:35 | |
| EPA 6020B | Beryllium | 0.000096J | mg/L | 0.00050 | 11/08/23 20:35 | |
| EPA 6020B | Boron | 1.1 | mg/L | 0.040 | 11/08/23 20:35 | |
| EPA 6020B | Cobalt | 0.081 | mg/L | 0.0050 | 11/08/23 20:35 | |
| EPA 6020B | Lithium | 0.067 | mg/L | 0.030 | 11/08/23 20:35 | |
| EPA 6020B | Molybdenum | 0.013 | mg/L | 0.010 | 11/08/23 20:35 | |
| SM 2540C-2015 | Total Dissolved Solids | 633 | mg/L | 25.0 | 11/02/23 18:06 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 139 | mg/L | 5.0 | 11/02/23 17:54 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 139 | mg/L | 5.0 | 11/02/23 17:54 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 16.5 | mg/L | 1.0 | 11/02/23 05:58 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.37 | mg/L | 0.10 | 11/02/23 05:58 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 292 | mg/L | 6.0 | 11/02/23 09:52 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92696318

| Sample: HAM-PT-07 | | Lab ID: 92696318001 | | Collected: 10/31/23 11:51 | | Received: 11/01/23 12:05 | | Matrix: Water | |
|-------------------------------------|----------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 20.0 | mg/L | 0.040 | 0.025 | 1 | 11/03/23 16:00 | 11/10/23 14:22 | 7439-89-6 | |
| Manganese | 5.1 | mg/L | 0.040 | 0.011 | 1 | 11/03/23 16:00 | 11/10/23 14:22 | 7439-96-5 | |
| Potassium | 6.9 | mg/L | 0.50 | 0.15 | 1 | 11/03/23 16:00 | 11/10/23 14:22 | 7440-09-7 | |
| Sodium | 7.6 | mg/L | 1.0 | 0.58 | 1 | 11/03/23 16:00 | 11/10/23 14:22 | 7440-23-5 | |
| Calcium | 144 | mg/L | 1.0 | 0.12 | 1 | 11/03/23 16:00 | 11/10/23 14:22 | 7440-70-2 | |
| Magnesium | 17.9 | mg/L | 0.050 | 0.012 | 1 | 11/03/23 16:00 | 11/10/23 14:22 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 11/02/23 11:18 | 11/08/23 19:46 | 7440-36-0 | |
| Arsenic | 0.34 | mg/L | 0.010 | 0.00084 | 1 | 11/02/23 11:18 | 11/08/23 19:46 | 7440-38-2 | M1 |
| Barium | 0.073 | mg/L | 0.0050 | 0.00047 | 1 | 11/02/23 11:18 | 11/08/23 19:46 | 7440-39-3 | |
| Beryllium | 0.00023J | mg/L | 0.00050 | 0.000094 | 1 | 11/02/23 11:18 | 11/08/23 19:46 | 7440-41-7 | |
| Boron | 1.1 | mg/L | 0.040 | 0.012 | 1 | 11/02/23 11:18 | 11/08/23 19:46 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 11/02/23 11:18 | 11/08/23 19:46 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 11/02/23 11:18 | 11/08/23 19:46 | 7440-47-3 | |
| Cobalt | 0.081 | mg/L | 0.0050 | 0.00032 | 1 | 11/02/23 11:18 | 11/08/23 19:46 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 11/02/23 11:18 | 11/08/23 19:46 | 7439-92-1 | |
| Lithium | 0.065 | mg/L | 0.030 | 0.0016 | 1 | 11/02/23 11:18 | 11/08/23 19:46 | 7439-93-2 | |
| Molybdenum | 0.014 | mg/L | 0.010 | 0.00062 | 1 | 11/02/23 11:18 | 11/08/23 19:46 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 11/02/23 11:18 | 11/08/23 19:46 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 11/02/23 11:18 | 11/08/23 19:46 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 11/06/23 11:30 | 11/06/23 13:37 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 630 | mg/L | 25.0 | 25.0 | 1 | | 11/02/23 18:02 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 138 | mg/L | 5.0 | 5.0 | 1 | | 11/02/23 17:24 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/02/23 17:24 | | |
| Alkalinity, Total as CaCO3 | 138 | mg/L | 5.0 | 5.0 | 1 | | 11/02/23 17:24 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 11/04/23 02:45 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 16.5 | mg/L | 1.0 | 0.60 | 1 | | 11/02/23 03:59 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1
 Pace Project No.: 92696318

Sample: HAM-PT-07 **Lab ID: 92696318001** Collected: 10/31/23 11:51 Received: 11/01/23 12:05 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.36 | mg/L | 0.10 | 0.050 | 1 | | 11/02/23 03:59 | 16984-48-8 | |
| Sulfate | 291 | mg/L | 6.0 | 3.0 | 6 | | 11/02/23 07:55 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92696318

| Sample: HAM-PT-08 | | Lab ID: 92696318002 | | Collected: 10/31/23 15:31 | | Received: 11/01/23 12:05 | | Matrix: Water | |
|-------------------------------------|----------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 5.8 | mg/L | 0.040 | 0.025 | 1 | 11/03/23 16:00 | 11/10/23 14:27 | 7439-89-6 | |
| Manganese | 2.4 | mg/L | 0.040 | 0.011 | 1 | 11/03/23 16:00 | 11/10/23 14:27 | 7439-96-5 | |
| Potassium | 6.0 | mg/L | 0.50 | 0.15 | 1 | 11/03/23 16:00 | 11/10/23 14:27 | 7440-09-7 | |
| Sodium | 8.5 | mg/L | 1.0 | 0.58 | 1 | 11/03/23 16:00 | 11/10/23 14:27 | 7440-23-5 | |
| Calcium | 115 | mg/L | 1.0 | 0.12 | 1 | 11/03/23 16:00 | 11/10/23 14:27 | 7440-70-2 | |
| Magnesium | 14.7 | mg/L | 0.050 | 0.012 | 1 | 11/03/23 16:00 | 11/10/23 14:27 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | 0.00079J | mg/L | 0.0030 | 0.00054 | 1 | 11/02/23 11:18 | 11/08/23 20:02 | 7440-36-0 | |
| Arsenic | 0.17 | mg/L | 0.010 | 0.00084 | 1 | 11/02/23 11:18 | 11/08/23 20:02 | 7440-38-2 | |
| Barium | 0.051 | mg/L | 0.0050 | 0.00047 | 1 | 11/02/23 11:18 | 11/08/23 20:02 | 7440-39-3 | |
| Beryllium | 0.00017J | mg/L | 0.00050 | 0.000094 | 1 | 11/02/23 11:18 | 11/08/23 20:02 | 7440-41-7 | |
| Boron | 1.1 | mg/L | 0.040 | 0.012 | 1 | 11/02/23 11:18 | 11/08/23 20:02 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 11/02/23 11:18 | 11/08/23 20:02 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 11/02/23 11:18 | 11/08/23 20:02 | 7440-47-3 | |
| Cobalt | 0.026 | mg/L | 0.0050 | 0.00032 | 1 | 11/02/23 11:18 | 11/08/23 20:02 | 7440-48-4 | |
| Lead | 0.00019J | mg/L | 0.0010 | 0.00016 | 1 | 11/02/23 11:18 | 11/08/23 20:02 | 7439-92-1 | |
| Lithium | 0.013J | mg/L | 0.030 | 0.0016 | 1 | 11/02/23 11:18 | 11/08/23 20:02 | 7439-93-2 | |
| Molybdenum | 0.024 | mg/L | 0.010 | 0.00062 | 1 | 11/02/23 11:18 | 11/08/23 20:02 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 11/02/23 11:18 | 11/08/23 20:02 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 11/02/23 11:18 | 11/08/23 20:02 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 11/06/23 11:30 | 11/06/23 13:40 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 484 | mg/L | 25.0 | 25.0 | 1 | | 11/02/23 18:02 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 126 | mg/L | 5.0 | 5.0 | 1 | | 11/02/23 17:35 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/02/23 17:35 | | |
| Alkalinity, Total as CaCO3 | 126 | mg/L | 5.0 | 5.0 | 1 | | 11/02/23 17:35 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 11/04/23 02:47 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 21.3 | mg/L | 1.0 | 0.60 | 1 | | 11/02/23 04:14 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92696318

Sample: HAM-PT-08 Lab ID: 92696318002 Collected: 10/31/23 15:31 Received: 11/01/23 12:05 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----------------|-------|----|----------|----------------|------------|------|
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Fluoride | 0.24 | mg/L | 0.10 | 0.050 | 1 | | 11/02/23 04:14 | 16984-48-8 | |
| Sulfate | 210 | mg/L | 4.0 | 2.0 | 4 | | 11/02/23 08:09 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92696318

| Sample: HAM-PT-09 | | Lab ID: 92696318003 | | Collected: 10/31/23 16:07 | | Received: 11/01/23 12:05 | | Matrix: Water | |
|--------------------------------|--------------|--|-----------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Boron | 0.71 | mg/L | 0.040 | 0.012 | 1 | 11/02/23 11:18 | 11/08/23 20:19 | 7440-42-8 | |
| Iron | 0.067 | mg/L | 0.040 | 0.0075 | 1 | 11/02/23 11:18 | 11/08/23 20:19 | 7439-89-6 | |
| Molybdenum | 0.22 | mg/L | 0.010 | 0.00062 | 1 | 11/02/23 11:18 | 11/08/23 20:19 | 7439-98-7 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Sulfate | 107 | mg/L | 2.0 | 1.0 | 2 | | 11/02/23 09:23 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92696318

Sample: HAM-PT-10 Lab ID: 92696318004 Collected: 10/31/23 13:12 Received: 11/01/23 12:05 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|---------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Boron | 1.1 | mg/L | 0.040 | 0.012 | 1 | 11/02/23 11:18 | 11/08/23 20:23 | 7440-42-8 | |
| Iron | 0.66 | mg/L | 0.040 | 0.0075 | 1 | 11/02/23 11:18 | 11/08/23 20:23 | 7439-89-6 | |
| Molybdenum | 0.19 | mg/L | 0.010 | 0.00062 | 1 | 11/02/23 11:18 | 11/08/23 20:23 | 7439-98-7 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfate | 108 | mg/L | 2.0 | 1.0 | 2 | | 11/02/23 09:38 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92696318

Sample: HAM-AP1-EB-01 Lab ID: 92696318005 Collected: 10/31/23 17:00 Received: 11/01/23 12:05 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 11/03/23 16:00 | 11/10/23 14:37 | 7439-89-6 | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 11/03/23 16:00 | 11/10/23 14:37 | 7439-96-5 | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 11/03/23 16:00 | 11/10/23 14:37 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 11/03/23 16:00 | 11/10/23 14:37 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 11/03/23 16:00 | 11/10/23 14:37 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 11/03/23 16:00 | 11/10/23 14:37 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 11/02/23 11:18 | 11/08/23 20:27 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.00084 | 1 | 11/02/23 11:18 | 11/08/23 20:27 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00047 | 1 | 11/02/23 11:18 | 11/08/23 20:27 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 11/02/23 11:18 | 11/08/23 20:27 | 7440-41-7 | |
| Boron | 0.016J | mg/L | 0.040 | 0.012 | 1 | 11/02/23 11:18 | 11/08/23 20:27 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 11/02/23 11:18 | 11/08/23 20:27 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 11/02/23 11:18 | 11/08/23 20:27 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 11/02/23 11:18 | 11/08/23 20:27 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 11/02/23 11:18 | 11/08/23 20:27 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 11/02/23 11:18 | 11/08/23 20:27 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 11/02/23 11:18 | 11/08/23 20:27 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 11/02/23 11:18 | 11/08/23 20:27 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 11/02/23 11:18 | 11/08/23 20:27 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 11/06/23 11:30 | 11/06/23 13:43 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 11/02/23 18:03 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/02/23 17:45 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/02/23 17:45 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 11/02/23 17:45 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 11/04/23 02:47 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 11/02/23 00:17 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92696318

Sample: HAM-AP1-EB-01 Lab ID: 92696318005 Collected: 10/31/23 17:00 Received: 11/01/23 12:05 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----------------|-------|----|----------|----------------|------------|------|
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 11/02/23 00:17 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 11/02/23 00:17 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92696318

Sample: HAM-AP1-FB-01 **Lab ID:** 92696318006 Collected: 10/31/23 16:45 Received: 11/01/23 12:05 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 11/03/23 16:00 | 11/10/23 14:42 | 7439-89-6 | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 11/03/23 16:00 | 11/10/23 14:42 | 7439-96-5 | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 11/03/23 16:00 | 11/10/23 14:42 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 11/03/23 16:00 | 11/10/23 14:42 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 11/03/23 16:00 | 11/10/23 14:42 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 11/03/23 16:00 | 11/10/23 14:42 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 11/02/23 11:18 | 11/08/23 20:31 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.00084 | 1 | 11/02/23 11:18 | 11/08/23 20:31 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00047 | 1 | 11/02/23 11:18 | 11/08/23 20:31 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 11/02/23 11:18 | 11/08/23 20:31 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 11/02/23 11:18 | 11/08/23 20:31 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 11/02/23 11:18 | 11/08/23 20:31 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 11/02/23 11:18 | 11/08/23 20:31 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 11/02/23 11:18 | 11/08/23 20:31 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 11/02/23 11:18 | 11/08/23 20:31 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 11/02/23 11:18 | 11/08/23 20:31 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 11/02/23 11:18 | 11/08/23 20:31 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 11/02/23 11:18 | 11/08/23 20:31 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 11/02/23 11:18 | 11/08/23 20:31 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 11/06/23 11:30 | 11/06/23 13:45 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 11/02/23 18:06 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/02/23 17:49 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/02/23 17:49 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 11/02/23 17:49 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 11/04/23 02:47 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 11/02/23 00:32 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1
 Pace Project No.: 92696318

| Sample: HAM-AP1-FB-01 | | Lab ID: 92696318006 | | Collected: 10/31/23 16:45 | | Received: 11/01/23 12:05 | | Matrix: Water | |
|--------------------------------|---------|---|-----------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 11/02/23 00:32 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 11/02/23 00:32 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92696318

| Sample: HAM-AP1-FD-01 | | Lab ID: 92696318007 | | Collected: 10/31/23 00:00 | | Received: 11/01/23 12:05 | | Matrix: Water | |
|-------------------------------------|-----------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 20.6 | mg/L | 0.040 | 0.025 | 1 | 11/03/23 16:00 | 11/10/23 14:46 | 7439-89-6 | |
| Manganese | 5.4 | mg/L | 0.040 | 0.011 | 1 | 11/03/23 16:00 | 11/10/23 14:46 | 7439-96-5 | |
| Potassium | 6.9 | mg/L | 0.50 | 0.15 | 1 | 11/03/23 16:00 | 11/10/23 14:46 | 7440-09-7 | |
| Sodium | 7.6 | mg/L | 1.0 | 0.58 | 1 | 11/03/23 16:00 | 11/10/23 14:46 | 7440-23-5 | |
| Calcium | 145 | mg/L | 1.0 | 0.12 | 1 | 11/03/23 16:00 | 11/10/23 14:46 | 7440-70-2 | |
| Magnesium | 17.8 | mg/L | 0.050 | 0.012 | 1 | 11/03/23 16:00 | 11/10/23 14:46 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 11/02/23 11:18 | 11/08/23 20:35 | 7440-36-0 | |
| Arsenic | 0.34 | mg/L | 0.010 | 0.00084 | 1 | 11/02/23 11:18 | 11/08/23 20:35 | 7440-38-2 | |
| Barium | 0.067 | mg/L | 0.0050 | 0.00047 | 1 | 11/02/23 11:18 | 11/08/23 20:35 | 7440-39-3 | |
| Beryllium | 0.000096J | mg/L | 0.00050 | 0.000094 | 1 | 11/02/23 11:18 | 11/08/23 20:35 | 7440-41-7 | |
| Boron | 1.1 | mg/L | 0.040 | 0.012 | 1 | 11/02/23 11:18 | 11/08/23 20:35 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 11/02/23 11:18 | 11/08/23 20:35 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 11/02/23 11:18 | 11/08/23 20:35 | 7440-47-3 | |
| Cobalt | 0.081 | mg/L | 0.0050 | 0.00032 | 1 | 11/02/23 11:18 | 11/08/23 20:35 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 11/02/23 11:18 | 11/08/23 20:35 | 7439-92-1 | |
| Lithium | 0.067 | mg/L | 0.030 | 0.0016 | 1 | 11/02/23 11:18 | 11/08/23 20:35 | 7439-93-2 | |
| Molybdenum | 0.013 | mg/L | 0.010 | 0.00062 | 1 | 11/02/23 11:18 | 11/08/23 20:35 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 11/02/23 11:18 | 11/08/23 20:35 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 11/02/23 11:18 | 11/08/23 20:35 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 11/06/23 11:30 | 11/06/23 13:48 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 633 | mg/L | 25.0 | 25.0 | 1 | | 11/02/23 18:06 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 139 | mg/L | 5.0 | 5.0 | 1 | | 11/02/23 17:54 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/02/23 17:54 | | |
| Alkalinity, Total as CaCO3 | 139 | mg/L | 5.0 | 5.0 | 1 | | 11/02/23 17:54 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 11/04/23 02:48 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 16.5 | mg/L | 1.0 | 0.60 | 1 | | 11/02/23 05:58 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92696318

Sample: HAM-AP1-FD-01 Lab ID: 92696318007 Collected: 10/31/23 00:00 Received: 11/01/23 12:05 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.37 | mg/L | 0.10 | 0.050 | 1 | | 11/02/23 05:58 | 16984-48-8 | |
| Sulfate | 292 | mg/L | 6.0 | 3.0 | 6 | | 11/02/23 09:52 | 14808-79-8 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92696318

QC Batch: 810854 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92696318001, 92696318002, 92696318005, 92696318006, 92696318007

METHOD BLANK: 4198107 Matrix: Water
 Associated Lab Samples: 92696318001, 92696318002, 92696318005, 92696318006, 92696318007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 11/10/23 13:22 | |
| Iron | mg/L | ND | 0.040 | 0.025 | 11/10/23 13:22 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 11/10/23 13:22 | |
| Manganese | mg/L | ND | 0.040 | 0.011 | 11/10/23 13:22 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 11/10/23 13:22 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 11/10/23 13:22 | |

LABORATORY CONTROL SAMPLE: 4198108

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 1 | 1.0 | 100 | 80-120 | |
| Iron | mg/L | 1 | 1.0 | 102 | 80-120 | |
| Magnesium | mg/L | 1 | 1.1 | 108 | 80-120 | |
| Manganese | mg/L | 1 | 1.0 | 101 | 80-120 | |
| Potassium | mg/L | 1 | 1.2 | 115 | 80-120 | |
| Sodium | mg/L | 1 | 1.2 | 116 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4198109 4198110

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|--------|----------|-----------|--------------|-----|---------|------|
| | | Spike Conc. | Result | Spike Conc. | Result | | | | | | |
| Calcium | mg/L | 1 | 56.2 | 1 | 55.9 | -21 | 160 | 75-125 | 3 | 20 | M1 |
| Iron | mg/L | 1 | 0.40 | 1 | 1.3 | 89 | 96 | 75-125 | 6 | 20 | |
| Magnesium | mg/L | 1 | 13.7 | 1 | 14.6 | 86 | 110 | 75-125 | 2 | 20 | |
| Manganese | mg/L | 1 | 0.076 | 1 | 1.1 | 97 | 100 | 75-125 | 2 | 20 | |
| Potassium | mg/L | 1 | 3.8 | 1 | 5.0 | 117 | 124 | 75-125 | 2 | 20 | |
| Sodium | mg/L | 1 | 4.1 | 1 | 5.2 | 112 | 118 | 75-125 | 1 | 20 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92696318

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 810547 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6020 MET |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92696318001, 92696318002, 92696318003, 92696318004, 92696318005, 92696318006, 92696318007

| | | | |
|---------------|---------|---------|-------|
| METHOD BLANK: | 4196254 | Matrix: | Water |
|---------------|---------|---------|-------|

Associated Lab Samples: 92696318001, 92696318002, 92696318003, 92696318004, 92696318005, 92696318006, 92696318007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00054 | 11/08/23 19:37 | |
| Arsenic | mg/L | ND | 0.010 | 0.00084 | 11/08/23 19:37 | |
| Barium | mg/L | ND | 0.0050 | 0.00047 | 11/08/23 19:37 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000094 | 11/08/23 19:37 | |
| Boron | mg/L | ND | 0.040 | 0.012 | 11/08/23 19:37 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00010 | 11/08/23 19:37 | |
| Chromium | mg/L | ND | 0.0050 | 0.0019 | 11/08/23 19:37 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00032 | 11/08/23 19:37 | |
| Iron | mg/L | ND | 0.040 | 0.0075 | 11/08/23 19:37 | |
| Lead | mg/L | ND | 0.0010 | 0.00016 | 11/08/23 19:37 | |
| Lithium | mg/L | ND | 0.030 | 0.0016 | 11/08/23 19:37 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00062 | 11/08/23 19:37 | |
| Selenium | mg/L | ND | 0.0050 | 0.00096 | 11/08/23 19:37 | |
| Thallium | mg/L | ND | 0.0010 | 0.00038 | 11/08/23 19:37 | |

LABORATORY CONTROL SAMPLE: 4196255

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.11 | 107 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.11 | 111 | 80-120 | |
| Barium | mg/L | 0.1 | 0.10 | 105 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.11 | 106 | 80-120 | |
| Boron | mg/L | 1 | 1.0 | 104 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.098 | 98 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.097 | 97 | 80-120 | |
| Iron | mg/L | 1 | 0.96 | 96 | 80-120 | |
| Lead | mg/L | 0.1 | 0.10 | 102 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.11 | 113 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92696318

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4196256 4196257 | | | | | | | | | | | | | |
|--|-------|-----------------------|----------------|----------------|--------------|--------------|---------------|-------------|--------------|-----------------|------------|-----|------|
| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | RPD | Qual |
| | | 92696318001 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 104 | 104 | 75-125 | 0 | 20 | | |
| Arsenic | mg/L | 0.34 | 0.1 | 0.1 | 0.46 | 0.48 | 122 | 142 | 75-125 | 4 | 20 | M1 | |
| Barium | mg/L | 0.073 | 0.1 | 0.1 | 0.17 | 0.17 | 102 | 102 | 75-125 | 0 | 20 | | |
| Beryllium | mg/L | 0.00023J | 0.1 | 0.1 | 0.089 | 0.087 | 89 | 87 | 75-125 | 2 | 20 | | |
| Boron | mg/L | 1.1 | 1 | 1 | 1.9 | 1.9 | 83 | 86 | 75-125 | 1 | 20 | | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.096 | 101 | 96 | 75-125 | 5 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.091 | 0.086 | 90 | 86 | 75-125 | 5 | 20 | | |
| Cobalt | mg/L | 0.081 | 0.1 | 0.1 | 0.17 | 0.17 | 92 | 86 | 75-125 | 4 | 20 | | |
| Iron | mg/L | 17.4 | 1 | 1 | 18.4 | 17.8 | 101 | 41 | 75-125 | 3 | 20 | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.090 | 0.088 | 90 | 88 | 75-125 | 2 | 20 | | |
| Lithium | mg/L | 0.065 | 0.1 | 0.1 | 0.15 | 0.15 | 84 | 84 | 75-125 | 0 | 20 | | |
| Molybdenum | mg/L | 0.014 | 0.1 | 0.1 | 0.11 | 0.11 | 97 | 97 | 75-125 | 0 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 106 | 109 | 75-125 | 2 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.094 | 0.092 | 94 | 91 | 75-125 | 3 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92696318

QC Batch: 811152 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92696318001, 92696318002, 92696318005, 92696318006, 92696318007

METHOD BLANK: 4199578 Matrix: Water
 Associated Lab Samples: 92696318001, 92696318002, 92696318005, 92696318006, 92696318007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00020 | 0.00013 | 11/06/23 13:05 | |

LABORATORY CONTROL SAMPLE: 4199579

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0025 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4199580 4199581

| Parameter | Units | 4199580 | | 4199581 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|-------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Mercury | mg/L | ND | 0.0025 | 0.0038 | 0.0025 | 152 | 100 | 75-125 | 41 | 20 | M1,R1 |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92696318

QC Batch: 810566 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92696318001, 92696318002, 92696318005, 92696318006, 92696318007

METHOD BLANK: 4196343 Matrix: Water
 Associated Lab Samples: 92696318001, 92696318002, 92696318005, 92696318006, 92696318007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 11/02/23 17:01 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 11/02/23 17:01 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 11/02/23 17:01 | |

LABORATORY CONTROL SAMPLE: 4196344

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.0 | 104 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4196345

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.7 | 105 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4196346 4196347

| Parameter | Units | 4196346 | | 4196347 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|----------------------------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|------|--|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 48.1 | 50 | 50 | 97.8 | 100 | 99 | 104 | 80-120 | 2 | 25 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4196348 4196349

| Parameter | Units | 4196348 | | 4196349 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|----------------------------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|------|--|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 30.1 | 50 | 50 | 80.1 | 80.3 | 100 | 100 | 80-120 | 0 | 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

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92696318

QC Batch: 811017 Analysis Method: SM 4500-S2D-2011
 QC Batch Method: SM 4500-S2D-2011 Analysis Description: 4500S2D Sulfide Water
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92696318001, 92696318002, 92696318005, 92696318006, 92696318007

METHOD BLANK: 4199225 Matrix: Water
 Associated Lab Samples: 92696318001, 92696318002, 92696318005, 92696318006, 92696318007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide | mg/L | ND | 0.10 | 0.022 | 11/04/23 02:44 | |

LABORATORY CONTROL SAMPLE: 4199226

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide | mg/L | 0.5 | 0.53 | 106 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4199227 4199228

| Parameter | Units | MS | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------------|-------------|--------|--------|-------|-------|--------|--------------|-----|---------|------|
| | | 92696318001 | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.56 | 0.56 | 112 | 112 | 80-120 | 0 | 10 | | |

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92696318

| | | | |
|------------------|------------------------|-----------------------|--------------------------------------|
| QC Batch: | 810436 | Analysis Method: | EPA 300.0 Rev 2.1 1993 |
| QC Batch Method: | EPA 300.0 Rev 2.1 1993 | Analysis Description: | 300.0 IC Anions |
| | | Laboratory: | Pace Analytical Services - Asheville |

Associated Lab Samples: 92696318001, 92696318002, 92696318003, 92696318004, 92696318005, 92696318006, 92696318007

METHOD BLANK: 4195954 Matrix: Water
 Associated Lab Samples: 92696318001, 92696318002, 92696318003, 92696318004, 92696318005, 92696318006, 92696318007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 11/01/23 23:48 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 11/01/23 23:48 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 11/01/23 23:48 | |

LABORATORY CONTROL SAMPLE: 4195955

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 51.8 | 104 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.7 | 109 | 90-110 | |
| Sulfate | mg/L | 50 | 52.2 | 104 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4195956 4195957

| Parameter | Units | 92696280001 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|--------|------------|-------|-----------|--------|--------------|-------|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | Result | MSD Result | % Rec | MSD % Rec | | | | | |
| Chloride | mg/L | | 50 | 50 | 66.9 | 68.6 | 99 | 102 | 90-110 | 2 | 10 | | |
| Fluoride | mg/L | 2.2 | 2.5 | 2.5 | 4.5 | 4.6 | 92 | 96 | 90-110 | 2 | 10 | | |
| Sulfate | mg/L | 249 | 50 | 50 | 299 | 307 | 100 | 117 | 90-110 | 3 | 10 M1 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4195958 4195959

| Parameter | Units | 92696318002 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|--------|------------|-------|-----------|--------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | Result | MSD Result | % Rec | MSD % Rec | | | | | |
| Chloride | mg/L | 21.3 | 50 | 50 | 71.8 | 73.0 | 101 | 103 | 90-110 | 2 | 10 | | |
| Fluoride | mg/L | 0.24 | 2.5 | 2.5 | 2.7 | 2.7 | 97 | 99 | 90-110 | 2 | 10 | | |
| Sulfate | mg/L | 210 | 50 | 50 | 259 | 256 | 97 | 92 | 90-110 | 1 | 10 | | |

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Hammond AP-1

Pace Project No.: 92696318

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1

Pace Project No.: 92696318

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|------------------------|----------|-------------------|------------------|
| 92696318001 | HAM-PT-07 | EPA 3010A | 810854 | EPA 6010D | 810992 |
| 92696318002 | HAM-PT-08 | EPA 3010A | 810854 | EPA 6010D | 810992 |
| 92696318005 | HAM-AP1-EB-01 | EPA 3010A | 810854 | EPA 6010D | 810992 |
| 92696318006 | HAM-AP1-FB-01 | EPA 3010A | 810854 | EPA 6010D | 810992 |
| 92696318007 | HAM-AP1-FD-01 | EPA 3010A | 810854 | EPA 6010D | 810992 |
| 92696318001 | HAM-PT-07 | EPA 3005A | 810547 | EPA 6020B | 810682 |
| 92696318002 | HAM-PT-08 | EPA 3005A | 810547 | EPA 6020B | 810682 |
| 92696318003 | HAM-PT-09 | EPA 3005A | 810547 | EPA 6020B | 810682 |
| 92696318004 | HAM-PT-10 | EPA 3005A | 810547 | EPA 6020B | 810682 |
| 92696318005 | HAM-AP1-EB-01 | EPA 3005A | 810547 | EPA 6020B | 810682 |
| 92696318006 | HAM-AP1-FB-01 | EPA 3005A | 810547 | EPA 6020B | 810682 |
| 92696318007 | HAM-AP1-FD-01 | EPA 3005A | 810547 | EPA 6020B | 810682 |
| 92696318001 | HAM-PT-07 | EPA 7470A | 811152 | EPA 7470A | 811235 |
| 92696318002 | HAM-PT-08 | EPA 7470A | 811152 | EPA 7470A | 811235 |
| 92696318005 | HAM-AP1-EB-01 | EPA 7470A | 811152 | EPA 7470A | 811235 |
| 92696318006 | HAM-AP1-FB-01 | EPA 7470A | 811152 | EPA 7470A | 811235 |
| 92696318007 | HAM-AP1-FD-01 | EPA 7470A | 811152 | EPA 7470A | 811235 |
| 92696318001 | HAM-PT-07 | SM 2540C-2015 | 810542 | | |
| 92696318002 | HAM-PT-08 | SM 2540C-2015 | 810542 | | |
| 92696318005 | HAM-AP1-EB-01 | SM 2540C-2015 | 810542 | | |
| 92696318006 | HAM-AP1-FB-01 | SM 2540C-2015 | 810542 | | |
| 92696318007 | HAM-AP1-FD-01 | SM 2540C-2015 | 810542 | | |
| 92696318001 | HAM-PT-07 | SM 2320B-2011 | 810566 | | |
| 92696318002 | HAM-PT-08 | SM 2320B-2011 | 810566 | | |
| 92696318005 | HAM-AP1-EB-01 | SM 2320B-2011 | 810566 | | |
| 92696318006 | HAM-AP1-FB-01 | SM 2320B-2011 | 810566 | | |
| 92696318007 | HAM-AP1-FD-01 | SM 2320B-2011 | 810566 | | |
| 92696318001 | HAM-PT-07 | SM 4500-S2D-2011 | 811017 | | |
| 92696318002 | HAM-PT-08 | SM 4500-S2D-2011 | 811017 | | |
| 92696318005 | HAM-AP1-EB-01 | SM 4500-S2D-2011 | 811017 | | |
| 92696318006 | HAM-AP1-FB-01 | SM 4500-S2D-2011 | 811017 | | |
| 92696318007 | HAM-AP1-FD-01 | SM 4500-S2D-2011 | 811017 | | |
| 92696318001 | HAM-PT-07 | EPA 300.0 Rev 2.1 1993 | 810436 | | |
| 92696318002 | HAM-PT-08 | EPA 300.0 Rev 2.1 1993 | 810436 | | |
| 92696318003 | HAM-PT-09 | EPA 300.0 Rev 2.1 1993 | 810436 | | |
| 92696318004 | HAM-PT-10 | EPA 300.0 Rev 2.1 1993 | 810436 | | |
| 92696318005 | HAM-AP1-EB-01 | EPA 300.0 Rev 2.1 1993 | 810436 | | |
| 92696318006 | HAM-AP1-FB-01 | EPA 300.0 Rev 2.1 1993 | 810436 | | |
| 92696318007 | HAM-AP1-FD-01 | EPA 300.0 Rev 2.1 1993 | 810436 | | |

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information
 Company: GA Power
 Address: Atlanta, GA

Section B Required Project Information
 Report To: SCS Contacts
 Copy To: Geosyntec Contacts

Section C Invoice Information
 Attention: Southern Co.
 Company Name:
 Address:
 Pace Queue Reference:
 Pace Project Manager: Bonnie Yang
 Pace Profile #: 10839

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER CCR

Site Location
 STATE: GA

| ITEM # | Section D Required Client Information | Valid Matrix Codes MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | | Analysis Test | | | | | Residual Chlorine (Y/N) | 92696318 | Pace Project No./ Lab I.D. | | | |
|--------|--|--|-----------------------------|------------|------|---------------------------|-----------------|---------------|------|-------------|--------------------------------|------------------|-----|------|---|----------|-------|-----------------------------|-----------------------------|-------------------------|----------|----------------------------|-------------------------------|-----|-------------------------|
| | | | | DATE | TIME | | | DATE | TIME | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₃ | Methanol | Other | Chloride, Fluoride, Sulfate | Full App. III and IV metals | | | | Major Ions (Profile 10839-2): | TDS | Boron, Iron, Molybdenum |
| 1 | HAM-PT-07 | WG | G | 10/31/2023 | 1151 | | 21 | 5 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | X | X | X | X | X | X | N | 001 | |
| 2 | HAM-PT-08 | WG | G | 10/31/2023 | 1531 | | 19 | 5 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | X | X | X | X | X | X | N | 002 | |
| 3 | HAM-PT-09 | WG | G | 10/31/2023 | 1607 | | 21 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | X | X | X | X | X | X | N | 003 | |
| 4 | HAM-PT-10 | WG | G | 10/31/2023 | 1312 | | 20 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | X | X | X | X | X | X | N | 004 | |
| 5 | HAM-AP1-EB-01 | WG | G | 10/31/2023 | 1700 | | 20 | 5 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | X | X | X | X | X | X | N | 005 | |
| 6 | HAM-AP1-FB-01 | WG | G | 10/31/2023 | 1645 | | 20 | 5 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | X | X | X | X | X | X | N | 006 | |
| 7 | HAM-AP1-FD-01 | WG | G | 10/31/2023 | 0000 | | 20 | 5 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | X | X | X | X | X | X | N | 007 | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|--------------------------------|-------------------------------|---------|------|---------------------------|---------|------|-------------------|
| Task Code: HAM-CCR-CA-20231031 | Zain Webb / Geosyntec | 11/1/23 | 1205 | Bryan Williams / Pace | 11/1/23 | 1206 | |
| | Bryan Williams / Pace | 11/1/23 | 1415 | Zain Webb / Geosyntec | 11/1/23 | 1417 | |

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Zain Webb, Elisabeth Russell / Geosyntec Consultants, Inc.
 SIGNATURE of SAMPLER: *Zain Webb* DATE Signed: 10/01/2023

Temp in °C _____
 Received on Ice (Y/N) _____
 Custody Sealed Cooler (Y/N) _____
 Samples Intact (Y/N) _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Project #:

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 11-1-23 JCC

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: 083 Type of Ice: Wet Blue None

Cooler Temp: 4.1 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.2

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | Comments/Discrepancy: |
|--|-----------------------|
| Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: 4 | |
| Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

Page 31 of 32



Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|
| 1 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

November 2023



November 27, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92697629

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on November 08, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec
Anthony Szwast, Geosyntec Consultants



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-1
Pace Project No.: 92697629

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92697629

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------|--------|----------------|----------------|
| 92697629001 | HAM-PT-07 | Water | 11/07/23 15:38 | 11/08/23 14:03 |
| 92697629002 | HAM-PT-08 | Water | 11/07/23 13:10 | 11/08/23 14:03 |
| 92697629003 | HAM-AP1-EB-01 | Water | 11/07/23 16:34 | 11/08/23 14:03 |
| 92697629004 | HAM-AP1-FB-01 | Water | 11/07/23 16:27 | 11/08/23 14:03 |
| 92697629005 | HAM-AP1-FD-01 | Water | 11/07/23 00:00 | 11/08/23 14:03 |

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1

Pace Project No.: 92697629

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------|------------------------|----------|-------------------|
| 92697629001 | HAM-PT-07 | EPA 6020B | CW1 | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 |
| 92697629002 | HAM-PT-08 | EPA 6020B | CW1 | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 |
| 92697629003 | HAM-AP1-EB-01 | EPA 6020B | CW1 | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 |
| 92697629004 | HAM-AP1-FB-01 | EPA 6020B | CW1 | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 |
| 92697629005 | HAM-AP1-FD-01 | EPA 6020B | CW1 | 3 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 1 |

PASI-A = Pace Analytical Services - Asheville

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92697629

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|--------|-------|--------------|----------------|------------|
| 92697629001 | HAM-PT-07 | | | | | |
| EPA 6020B | Arsenic | 0.33 | mg/L | 0.010 | 11/21/23 13:28 | |
| EPA 6020B | Boron | 1.1 | mg/L | 0.040 | 11/21/23 13:28 | |
| EPA 6020B | Iron | 4.0 | mg/L | 0.20 | 11/22/23 15:25 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 287 | mg/L | 6.0 | 11/14/23 08:59 | |
| 92697629002 | HAM-PT-08 | | | | | |
| EPA 6020B | Arsenic | 0.24 | mg/L | 0.010 | 11/21/23 13:32 | |
| EPA 6020B | Boron | 1.0 | mg/L | 0.040 | 11/21/23 13:32 | |
| EPA 6020B | Iron | 5.7 | mg/L | 0.040 | 11/21/23 13:32 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 273 | mg/L | 6.0 | 11/14/23 09:14 | |
| 92697629003 | HAM-AP1-EB-01 | | | | | |
| EPA 6020B | Boron | 0.033J | mg/L | 0.040 | 11/21/23 13:48 | |
| 92697629004 | HAM-AP1-FB-01 | | | | | |
| EPA 6020B | Boron | 0.013J | mg/L | 0.040 | 11/21/23 13:53 | |
| 92697629005 | HAM-AP1-FD-01 | | | | | |
| EPA 6020B | Arsenic | 0.26 | mg/L | 0.010 | 11/21/23 14:13 | |
| EPA 6020B | Boron | 1.1 | mg/L | 0.040 | 11/21/23 14:13 | |
| EPA 6020B | Iron | 6.0 | mg/L | 0.040 | 11/21/23 14:13 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 255 | mg/L | 5.0 | 11/15/23 04:06 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92697629

Sample: HAM-PT-07 **Lab ID: 92697629001** Collected: 11/07/23 15:38 Received: 11/08/23 14:03 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---|-------------|-------|--------|---------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Arsenic | 0.33 | mg/L | 0.010 | 0.00084 | 1 | 11/17/23 12:30 | 11/21/23 13:28 | 7440-38-2 | |
| Boron | 1.1 | mg/L | 0.040 | 0.012 | 1 | 11/17/23 12:30 | 11/21/23 13:28 | 7440-42-8 | |
| Iron | 4.0 | mg/L | 0.20 | 0.037 | 5 | 11/17/23 12:30 | 11/22/23 15:25 | 7439-89-6 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfate | 287 | mg/L | 6.0 | 3.0 | 6 | | 11/14/23 08:59 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92697629

Sample: HAM-PT-08 **Lab ID: 92697629002** Collected: 11/07/23 13:10 Received: 11/08/23 14:03 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---|-------------|-------|--------|---------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Arsenic | 0.24 | mg/L | 0.010 | 0.00084 | 1 | 11/17/23 12:30 | 11/21/23 13:32 | 7440-38-2 | |
| Boron | 1.0 | mg/L | 0.040 | 0.012 | 1 | 11/17/23 12:30 | 11/21/23 13:32 | 7440-42-8 | |
| Iron | 5.7 | mg/L | 0.040 | 0.0075 | 1 | 11/17/23 12:30 | 11/21/23 13:32 | 7439-89-6 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfate | 273 | mg/L | 6.0 | 3.0 | 6 | | 11/14/23 09:14 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92697629

Sample: HAM-AP1-EB-01 Lab ID: 92697629003 Collected: 11/07/23 16:34 Received: 11/08/23 14:03 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------------|-------|--------|---------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Arsenic | ND | mg/L | 0.010 | 0.00084 | 1 | 11/17/23 12:30 | 11/22/23 15:29 | 7440-38-2 | |
| Boron | 0.033J | mg/L | 0.040 | 0.012 | 1 | 11/17/23 12:30 | 11/21/23 13:48 | 7440-42-8 | |
| Iron | ND | mg/L | 0.040 | 0.0075 | 1 | 11/17/23 12:30 | 11/21/23 13:48 | 7439-89-6 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 11/13/23 23:47 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92697629

Sample: HAM-AP1-FB-01 Lab ID: 92697629004 Collected: 11/07/23 16:27 Received: 11/08/23 14:03 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------------|-------|--------|---------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Arsenic | ND | mg/L | 0.010 | 0.00084 | 1 | 11/17/23 12:30 | 11/22/23 15:33 | 7440-38-2 | |
| Boron | 0.013J | mg/L | 0.040 | 0.012 | 1 | 11/17/23 12:30 | 11/21/23 13:53 | 7440-42-8 | |
| Iron | ND | mg/L | 0.040 | 0.0075 | 1 | 11/17/23 12:30 | 11/21/23 13:53 | 7439-89-6 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 11/14/23 00:02 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92697629

Sample: HAM-AP1-FD-01 Lab ID: 92697629005 Collected: 11/07/23 00:00 Received: 11/08/23 14:03 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|---------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Arsenic | 0.26 | mg/L | 0.010 | 0.00084 | 1 | 11/17/23 12:30 | 11/21/23 14:13 | 7440-38-2 | |
| Boron | 1.1 | mg/L | 0.040 | 0.012 | 1 | 11/17/23 12:30 | 11/21/23 14:13 | 7440-42-8 | |
| Iron | 6.0 | mg/L | 0.040 | 0.0075 | 1 | 11/17/23 12:30 | 11/21/23 14:13 | 7439-89-6 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfate | 255 | mg/L | 5.0 | 2.5 | 5 | | 11/15/23 04:06 | 14808-79-8 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92697629

| | | | |
|-------------------------|---|-----------------------|--|
| QC Batch: | 814093 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6020 MET |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |
| Associated Lab Samples: | 92697629001, 92697629002, 92697629003, 92697629004, 92697629005 | | |

METHOD BLANK: 4214778 Matrix: Water
 Associated Lab Samples: 92697629001, 92697629002, 92697629003, 92697629004, 92697629005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Arsenic | mg/L | ND | 0.010 | 0.00084 | 11/22/23 15:17 | |
| Boron | mg/L | ND | 0.040 | 0.012 | 11/21/23 13:15 | |
| Iron | mg/L | ND | 0.040 | 0.0075 | 11/21/23 13:15 | |

LABORATORY CONTROL SAMPLE: 4214779

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic | mg/L | 0.1 | 0.10 | 100 | 80-120 | |
| Boron | mg/L | 1 | 1.1 | 108 | 80-120 | |
| Iron | mg/L | 1 | 1.0 | 105 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4214780 4214781

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|--------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92697629002 Result | Spike Conc. | Spike Conc. | Result | | | | | | | | |
| Arsenic | mg/L | 0.24 | 0.1 | 0.1 | 0.36 | 0.35 | 117 | 113 | 75-125 | 1 | 20 | | |
| Boron | mg/L | 1.0 | 1 | 1 | 2.0 | 2.0 | 98 | 96 | 75-125 | 1 | 20 | | |
| Iron | mg/L | 5.7 | 1 | 1 | 6.7 | 6.6 | 101 | 85 | 75-125 | 2 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92697629

QC Batch: 812941 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92697629001, 92697629002, 92697629003, 92697629004

METHOD BLANK: 4209281 Matrix: Water
 Associated Lab Samples: 92697629001, 92697629002, 92697629003, 92697629004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Sulfate | mg/L | ND | 1.0 | 0.50 | 11/13/23 23:18 | |

LABORATORY CONTROL SAMPLE: 4209282

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfate | mg/L | 50 | 51.3 | 103 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4209283 4209284

| Parameter | Units | 92698094008 | | 4209283 | | 4209284 | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-----------------|-----------|-----------------|-----------|-----------------|--------------|--------|---------|------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | |
| Sulfate | mg/L | ND | 50 | 50 | 54.2 | 54.7 | 108 | 109 | 90-110 | 1 | 10 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4209407 4209408

| Parameter | Units | 92697629002 | | 4209407 | | 4209408 | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-----------------|-----------|-----------------|-----------|-----------------|--------------|--------|---------|------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | |
| Sulfate | mg/L | 273 | 50 | 50 | 323 | 324 | 99 | 101 | 90-110 | 0 | 10 |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92697629

| | |
|---|--|
| QC Batch: 813004 | Analysis Method: EPA 300.0 Rev 2.1 1993 |
| QC Batch Method: EPA 300.0 Rev 2.1 1993 | Analysis Description: 300.0 IC Anions |
| | Laboratory: Pace Analytical Services - Asheville |

Associated Lab Samples: 92697629005

METHOD BLANK: 4209515 Matrix: Water

Associated Lab Samples: 92697629005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Sulfate | mg/L | ND | 1.0 | 0.50 | 11/14/23 12:38 | |

LABORATORY CONTROL SAMPLE: 4209516

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfate | mg/L | 50 | 51.7 | 103 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4209517 4209518

| Parameter | Units | 4209517 | | 4209518 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Sulfate | mg/L | 92698355001 6.9 | 50 | 50 | 56.7 | 57.9 | 100 | 102 | 90-110 | 2 | 10 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4209519 4209520

| Parameter | Units | 4209519 | | 4209520 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|---------------------|-----------------|-----------|------------|----------|-----------|--------------|--------|---------|-------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Sulfate | mg/L | 92698017008 87.3 | 50 | 50 | 129 | 129 | 83 | 83 | 90-110 | 0 | 10 M1 |

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QUALIFIERS

Project: Hammond AP-1

Pace Project No.: 92697629

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1

Pace Project No.: 92697629

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|------------------------|----------|-------------------|------------------|
| 92697629001 | HAM-PT-07 | EPA 3005A | 814093 | EPA 6020B | 814408 |
| 92697629002 | HAM-PT-08 | EPA 3005A | 814093 | EPA 6020B | 814408 |
| 92697629003 | HAM-AP1-EB-01 | EPA 3005A | 814093 | EPA 6020B | 814408 |
| 92697629004 | HAM-AP1-FB-01 | EPA 3005A | 814093 | EPA 6020B | 814408 |
| 92697629005 | HAM-AP1-FD-01 | EPA 3005A | 814093 | EPA 6020B | 814408 |
| 92697629001 | HAM-PT-07 | EPA 300.0 Rev 2.1 1993 | 812941 | | |
| 92697629002 | HAM-PT-08 | EPA 300.0 Rev 2.1 1993 | 812941 | | |
| 92697629003 | HAM-AP1-EB-01 | EPA 300.0 Rev 2.1 1993 | 812941 | | |
| 92697629004 | HAM-AP1-FB-01 | EPA 300.0 Rev 2.1 1993 | 812941 | | |
| 92697629005 | HAM-AP1-FD-01 | EPA 300.0 Rev 2.1 1993 | 813004 | | |

REPORT OF LABORATORY ANALYSIS

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DC#_ Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92697629



92697629

Courier: Commercial Fed Ex Pace UPS USPS Client Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer:

IR Gun ID: 230

Type of Ice: Wet Blue None

Date/Initials Person Examining Contents: JG 11/8/23

Biological Tissue Frozen? Yes No N/A

Cooler Temp: 2.6 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.6

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. | Comments/Discrepancy: |
|---|--|-----|-----------------------|
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. | |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 3. | |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. | |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. | |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. | |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8. | |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 9. | |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| -Includes Date/Time/ID/Analysis Matrix: WG/WQ | | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. | |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. | |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

Effective Date: 11/14/2022

WO# : 92697629

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

PM: BV

Due Date: 11/27/23

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: 92- GP-HAM

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG9A-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2SO3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|-----------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

| | | | | | |
|---|--|---|--|---|--|
| Section A Required Client Information: Company: GA Power Address: Atlanta, GA | | Section B Required Project Information: Report To: SCS Contacts Copy To: Geosyntec Contacts | | Section C Invoice Information: Attention: Southern Co Company Name: _____ Address: _____ | |
| Email To: SCS Contacts Phone: _____ Requested Due Date/TAT: 3 day | | Purchase Order No: GPC82474 0001 Project Name: Hammond AP-1 Project Number: _____ | | Pace Quote Reference Manager: Bonnie Yang Pace Profile #: 10839 | |
| REGULATORY AGENCY: NPDES UST RCRA | | GROUND WATER RCRA | | DRINKING WATER OTHER: <u>CS</u> | |
| Site Location: _____ STATE: GA | | Requested Analysis Filtered (Y/N) | | | |

| ITEM # | Section D Required Client Information | Valid Matrix Codes MATRIX CODE | COLLECTED | | DATE | TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | Analysis Test | | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|--------|--|-----------------------------------|------------|-----------|------|------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|---------------|-------|-------------------------|----------------------------|
| | | | COMPOSITE | COMPOSITE | | | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₃ | Methanol | Other | | |
| 1 | HAM-PT-07 | WG G | 11/07/2023 | 1538 | | | 2 | 1 | 1 | | | | | | X | X | | 01 |
| 2 | HAM-PT-08 | WG G | 11/07/2023 | 1310 | | | 2 | 1 | 1 | | | | | | X | X | | 02 |
| 3 | HAM-AP1-EB-01 | WG G | 11/07/2023 | 1634 | | | 2 | 1 | 1 | | | | | | X | X | | 03 |
| 4 | HAM-AP1-FB-01 | WG G | 11/07/2023 | 1627 | | | 2 | 1 | 1 | | | | | | X | X | | 04 |
| 5 | HAM-AP1-FD-01 | WG G | 11/07/2023 | 0000 | | | 2 | 1 | 1 | | | | | | X | X | | 05 |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | |
|---|--|---|--|------------------------------|--|--|--|------------------------------|--|
| ADDITIONAL COMMENTS: Task Code: HAM-COR-CA-20231107 | | RELINQUISHED BY / AFFILIATION: Zain Webb / Geosyntec Ryan Williams / Pace | | DATE: 11/08/23 TIME: 2:03 | | ACCEPTED BY / AFFILIATION: Ryan Williams / Pace | | DATE: 11/8/23 TIME: 15:10 | |
| SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: Zain Webb / Geosyntec Consultants, Inc. SIGNATURE of SAMPLER: <i>Zain Webb</i> | | | | | | | | | |
| DATE Signed (MM/DD/YY): 11-8-2023 | | | | | | | | | |
| Temp in °C | | Received on Ice (Y/N) | | Custody Sealed Cooler (Y/N) | | Samples Intact (Y/N) | | | |



December 04, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92698920

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec
Anthony Szwast, Geosyntec Consultants



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-1

Pace Project No.: 92698920

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92698920

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------|--------|----------------|----------------|
| 92698920001 | HAM-PT-09 | Water | 11/14/23 18:03 | 11/15/23 13:06 |
| 92698920002 | HAM-PT-10 | Water | 11/14/23 14:25 | 11/15/23 13:06 |
| 92698920003 | HAM-AP1-EB-01 | Water | 11/14/23 19:33 | 11/15/23 13:06 |
| 92698920004 | HAM-AP1-FB-01 | Water | 11/14/23 19:25 | 11/15/23 13:06 |
| 92698920005 | HAM-AP1-FD-01 | Water | 11/14/23 00:00 | 11/15/23 13:06 |

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1

Pace Project No.: 92698920

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------|------------------------|----------|-------------------|
| 92698920001 | HAM-PT-09 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | KDF1 | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| 92698920002 | HAM-PT-10 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | KDF1 | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| 92698920003 | HAM-AP1-EB-01 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | KDF1 | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| 92698920004 | HAM-AP1-FB-01 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | KDF1 | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |
| 92698920005 | HAM-AP1-FD-01 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | CW1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | KDF1 | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | JCM | 3 |

PASI-A = Pace Analytical Services - Asheville

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92698920

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|----------|-------|--------------|----------------|------------|
| 92698920001 | HAM-PT-09 | | | | | |
| EPA 6010D | Manganese | 0.23 | mg/L | 0.040 | 11/21/23 13:28 | |
| EPA 6010D | Potassium | 4.9 | mg/L | 0.50 | 11/21/23 13:28 | M1 |
| EPA 6010D | Sodium | 6.9 | mg/L | 1.0 | 11/21/23 13:28 | M1 |
| EPA 6010D | Calcium | 111 | mg/L | 1.0 | 11/21/23 13:28 | M1 |
| EPA 6010D | Magnesium | 18.9 | mg/L | 0.050 | 11/21/23 13:28 | M1 |
| EPA 6020B | Barium | 0.10 | mg/L | 0.0050 | 11/29/23 20:55 | |
| EPA 6020B | Boron | 1.2 | mg/L | 0.040 | 11/30/23 15:51 | |
| EPA 6020B | Cadmium | 0.00011J | mg/L | 0.00050 | 11/29/23 20:55 | |
| EPA 6020B | Cobalt | 0.0013J | mg/L | 0.0050 | 11/29/23 20:55 | |
| EPA 6020B | Molybdenum | 0.20 | mg/L | 0.010 | 11/29/23 20:55 | |
| SM 2540C-2015 | Total Dissolved Solids | 491 | mg/L | 25.0 | 11/17/23 13:32 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 133 | mg/L | 5.0 | 11/22/23 12:06 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 133 | mg/L | 5.0 | 11/22/23 12:06 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 38.5 | mg/L | 1.0 | 11/17/23 03:18 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.35 | mg/L | 0.10 | 11/17/23 03:18 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 179 | mg/L | 4.0 | 11/17/23 15:01 | |
| 92698920002 | HAM-PT-10 | | | | | |
| EPA 6010D | Iron | 0.56 | mg/L | 0.040 | 11/21/23 13:47 | |
| EPA 6010D | Manganese | 0.82 | mg/L | 0.040 | 11/21/23 13:47 | |
| EPA 6010D | Potassium | 6.6 | mg/L | 0.50 | 11/21/23 13:47 | |
| EPA 6010D | Sodium | 7.1 | mg/L | 1.0 | 11/21/23 13:47 | |
| EPA 6010D | Calcium | 119 | mg/L | 1.0 | 11/21/23 13:47 | |
| EPA 6010D | Magnesium | 15.3 | mg/L | 0.050 | 11/21/23 13:47 | |
| EPA 6020B | Barium | 0.061 | mg/L | 0.0050 | 11/29/23 21:11 | |
| EPA 6020B | Boron | 1.3 | mg/L | 0.040 | 11/30/23 16:03 | |
| EPA 6020B | Cobalt | 0.0024J | mg/L | 0.0050 | 11/29/23 21:11 | |
| EPA 6020B | Lithium | 0.0022J | mg/L | 0.030 | 11/30/23 16:03 | |
| EPA 6020B | Molybdenum | 0.19 | mg/L | 0.010 | 11/29/23 21:11 | |
| SM 2540C-2015 | Total Dissolved Solids | 516 | mg/L | 25.0 | 11/17/23 13:32 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 136 | mg/L | 5.0 | 11/22/23 12:15 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 136 | mg/L | 5.0 | 11/22/23 12:15 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 43.3 | mg/L | 1.0 | 11/17/23 04:03 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.35 | mg/L | 0.10 | 11/17/23 04:03 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 184 | mg/L | 4.0 | 11/17/23 15:46 | |
| 92698920003 | HAM-AP1-EB-01 | | | | | |
| SM 2540C-2015 | Total Dissolved Solids | 40.0 | mg/L | 25.0 | 11/17/23 13:32 | |
| 92698920005 | HAM-AP1-FD-01 | | | | | |
| EPA 6010D | Iron | 0.60 | mg/L | 0.040 | 11/21/23 14:20 | |
| EPA 6010D | Manganese | 0.84 | mg/L | 0.040 | 11/21/23 14:20 | |
| EPA 6010D | Potassium | 6.7 | mg/L | 0.50 | 11/21/23 14:20 | |
| EPA 6010D | Sodium | 7.2 | mg/L | 1.0 | 11/21/23 14:20 | |
| EPA 6010D | Calcium | 121 | mg/L | 1.0 | 11/21/23 14:20 | |
| EPA 6010D | Magnesium | 15.6 | mg/L | 0.050 | 11/21/23 14:20 | |
| EPA 6020B | Barium | 0.060 | mg/L | 0.0050 | 11/29/23 21:35 | |
| EPA 6020B | Boron | 1.2 | mg/L | 0.040 | 11/30/23 16:07 | |
| EPA 6020B | Cobalt | 0.0023J | mg/L | 0.0050 | 11/29/23 21:35 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92698920

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|---------|-------|--------------|----------------|------------|
| 92698920005 | HAM-AP1-FD-01 | | | | | |
| EPA 6020B | Lithium | 0.0021J | mg/L | 0.030 | 11/30/23 16:07 | |
| EPA 6020B | Molybdenum | 0.18 | mg/L | 0.010 | 11/29/23 21:35 | |
| SM 2540C-2015 | Total Dissolved Solids | 496 | mg/L | 25.0 | 11/17/23 13:33 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 138 | mg/L | 5.0 | 11/22/23 12:34 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 138 | mg/L | 5.0 | 11/22/23 12:34 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 43.3 | mg/L | 1.0 | 11/17/23 04:49 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.35 | mg/L | 0.10 | 11/17/23 04:49 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 182 | mg/L | 4.0 | 11/17/23 16:01 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92698920

| Sample: HAM-PT-09 | | Lab ID: 92698920001 | | Collected: 11/14/23 18:03 | | Received: 11/15/23 13:06 | | Matrix: Water | | |
|-------------------------------------|----------|--|---------|---------------------------|----|--------------------------|----------------|---------------|------|--|
| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual | |
| | | | Limit | MDL | DF | | | | | |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 11/20/23 14:55 | 11/21/23 13:28 | 7439-89-6 | | |
| Manganese | 0.23 | mg/L | 0.040 | 0.011 | 1 | 11/20/23 14:55 | 11/21/23 13:28 | 7439-96-5 | | |
| Potassium | 4.9 | mg/L | 0.50 | 0.15 | 1 | 11/20/23 14:55 | 11/21/23 13:28 | 7440-09-7 | M1 | |
| Sodium | 6.9 | mg/L | 1.0 | 0.58 | 1 | 11/20/23 14:55 | 11/21/23 13:28 | 7440-23-5 | M1 | |
| Calcium | 111 | mg/L | 1.0 | 0.12 | 1 | 11/20/23 14:55 | 11/21/23 13:28 | 7440-70-2 | M1 | |
| Magnesium | 18.9 | mg/L | 0.050 | 0.012 | 1 | 11/20/23 14:55 | 11/21/23 13:28 | 7439-95-4 | M1 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 11/28/23 10:12 | 11/29/23 20:55 | 7440-36-0 | | |
| Arsenic | ND | mg/L | 0.010 | 0.00084 | 1 | 11/28/23 10:12 | 11/29/23 20:55 | 7440-38-2 | | |
| Barium | 0.10 | mg/L | 0.0050 | 0.00047 | 1 | 11/28/23 10:12 | 11/29/23 20:55 | 7440-39-3 | | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 11/28/23 10:12 | 11/30/23 15:51 | 7440-41-7 | | |
| Boron | 1.2 | mg/L | 0.040 | 0.012 | 1 | 11/28/23 10:12 | 11/30/23 15:51 | 7440-42-8 | | |
| Cadmium | 0.00011J | mg/L | 0.00050 | 0.00010 | 1 | 11/28/23 10:12 | 11/29/23 20:55 | 7440-43-9 | | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 11/28/23 10:12 | 11/29/23 20:55 | 7440-47-3 | | |
| Cobalt | 0.0013J | mg/L | 0.0050 | 0.00032 | 1 | 11/28/23 10:12 | 11/29/23 20:55 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 11/28/23 10:12 | 11/29/23 20:55 | 7439-92-1 | | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 11/28/23 10:12 | 11/30/23 15:51 | 7439-93-2 | | |
| Molybdenum | 0.20 | mg/L | 0.010 | 0.00062 | 1 | 11/28/23 10:12 | 11/29/23 20:55 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 11/28/23 10:12 | 11/29/23 20:55 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 11/28/23 10:12 | 11/29/23 20:55 | 7440-28-0 | | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 11/30/23 10:30 | 11/30/23 13:13 | 7439-97-6 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | 491 | mg/L | 25.0 | 25.0 | 1 | | 11/17/23 13:32 | | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 133 | mg/L | 5.0 | 5.0 | 1 | | 11/22/23 12:06 | | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/22/23 12:06 | | | |
| Alkalinity, Total as CaCO3 | 133 | mg/L | 5.0 | 5.0 | 1 | | 11/22/23 12:06 | | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 11/18/23 03:24 | 18496-25-8 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | 38.5 | mg/L | 1.0 | 0.60 | 1 | | 11/17/23 03:18 | 16887-00-6 | | |

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ANALYTICAL RESULTS

Project: Hammond AP-1
 Pace Project No.: 92698920

Sample: HAM-PT-09 **Lab ID: 92698920001** Collected: 11/14/23 18:03 Received: 11/15/23 13:06 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.35 | mg/L | 0.10 | 0.050 | 1 | | 11/17/23 03:18 | 16984-48-8 | |
| Sulfate | 179 | mg/L | 4.0 | 2.0 | 4 | | 11/17/23 15:01 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92698920

| Sample: HAM-PT-10 | | Lab ID: 92698920002 | | Collected: 11/14/23 14:25 | | Received: 11/15/23 13:06 | | Matrix: Water | |
|-------------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 0.56 | mg/L | 0.040 | 0.025 | 1 | 11/20/23 14:55 | 11/21/23 13:47 | 7439-89-6 | |
| Manganese | 0.82 | mg/L | 0.040 | 0.011 | 1 | 11/20/23 14:55 | 11/21/23 13:47 | 7439-96-5 | |
| Potassium | 6.6 | mg/L | 0.50 | 0.15 | 1 | 11/20/23 14:55 | 11/21/23 13:47 | 7440-09-7 | |
| Sodium | 7.1 | mg/L | 1.0 | 0.58 | 1 | 11/20/23 14:55 | 11/21/23 13:47 | 7440-23-5 | |
| Calcium | 119 | mg/L | 1.0 | 0.12 | 1 | 11/20/23 14:55 | 11/21/23 13:47 | 7440-70-2 | |
| Magnesium | 15.3 | mg/L | 0.050 | 0.012 | 1 | 11/20/23 14:55 | 11/21/23 13:47 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 11/28/23 10:12 | 11/29/23 21:11 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.00084 | 1 | 11/28/23 10:12 | 11/29/23 21:11 | 7440-38-2 | |
| Barium | 0.061 | mg/L | 0.0050 | 0.00047 | 1 | 11/28/23 10:12 | 11/29/23 21:11 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 11/28/23 10:12 | 11/30/23 16:03 | 7440-41-7 | |
| Boron | 1.3 | mg/L | 0.040 | 0.012 | 1 | 11/28/23 10:12 | 11/30/23 16:03 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 11/28/23 10:12 | 11/29/23 21:11 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 11/28/23 10:12 | 11/29/23 21:11 | 7440-47-3 | |
| Cobalt | 0.0024J | mg/L | 0.0050 | 0.00032 | 1 | 11/28/23 10:12 | 11/29/23 21:11 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 11/28/23 10:12 | 11/29/23 21:11 | 7439-92-1 | |
| Lithium | 0.0022J | mg/L | 0.030 | 0.0016 | 1 | 11/28/23 10:12 | 11/30/23 16:03 | 7439-93-2 | |
| Molybdenum | 0.19 | mg/L | 0.010 | 0.00062 | 1 | 11/28/23 10:12 | 11/29/23 21:11 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 11/28/23 10:12 | 11/29/23 21:11 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 11/28/23 10:12 | 11/29/23 21:11 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 11/30/23 10:30 | 11/30/23 13:16 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 516 | mg/L | 25.0 | 25.0 | 1 | | 11/17/23 13:32 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 136 | mg/L | 5.0 | 5.0 | 1 | | 11/22/23 12:15 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/22/23 12:15 | | |
| Alkalinity, Total as CaCO3 | 136 | mg/L | 5.0 | 5.0 | 1 | | 11/22/23 12:15 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 11/18/23 03:24 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 43.3 | mg/L | 1.0 | 0.60 | 1 | | 11/17/23 04:03 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92698920

Sample: HAM-PT-10 Lab ID: 92698920002 Collected: 11/14/23 14:25 Received: 11/15/23 13:06 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.35 | mg/L | 0.10 | 0.050 | 1 | | 11/17/23 04:03 | 16984-48-8 | |
| Sulfate | 184 | mg/L | 4.0 | 2.0 | 4 | | 11/17/23 15:46 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92698920

Sample: HAM-AP1-EB-01 **Lab ID:** 92698920003 Collected: 11/14/23 19:33 Received: 11/15/23 13:06 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---|-------------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 11/20/23 14:55 | 11/21/23 14:11 | 7439-89-6 | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 11/20/23 14:55 | 11/21/23 14:11 | 7439-96-5 | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 11/20/23 14:55 | 11/21/23 14:11 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 11/20/23 14:55 | 11/21/23 14:11 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 11/20/23 14:55 | 11/21/23 14:11 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 11/20/23 14:55 | 11/21/23 14:11 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 11/28/23 10:12 | 11/29/23 21:19 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.00084 | 1 | 11/28/23 10:12 | 11/29/23 21:19 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00047 | 1 | 11/28/23 10:12 | 11/29/23 21:19 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 11/28/23 10:12 | 11/29/23 21:19 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 11/28/23 10:12 | 11/29/23 21:19 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 11/28/23 10:12 | 11/29/23 21:19 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 11/28/23 10:12 | 11/29/23 21:19 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 11/28/23 10:12 | 11/29/23 21:19 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 11/28/23 10:12 | 11/29/23 21:19 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 11/28/23 10:12 | 11/29/23 21:19 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 11/28/23 10:12 | 11/29/23 21:19 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 11/28/23 10:12 | 11/29/23 21:19 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 11/28/23 10:12 | 11/29/23 21:19 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 11/30/23 10:30 | 11/30/23 13:26 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 40.0 | mg/L | 25.0 | 25.0 | 1 | | 11/17/23 13:32 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/22/23 12:25 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/22/23 12:25 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 11/22/23 12:25 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 11/18/23 03:25 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 11/17/23 18:46 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92698920

Sample: HAM-AP1-EB-01 Lab ID: 92698920003 Collected: 11/14/23 19:33 Received: 11/15/23 13:06 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|----|------|------|-------|---|--|----------------|------------|--|
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 11/17/23 18:46 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 11/17/23 18:46 | 14808-79-8 | |

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**ANALYTICAL RESULTS**

Project: Hammond AP-1

Pace Project No.: 92698920

| Sample: HAM-AP1-FB-01 | | Lab ID: 92698920004 | | Collected: 11/14/23 19:25 | | Received: 11/15/23 13:06 | | Matrix: Water | |
|-------------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 11/20/23 14:55 | 11/21/23 14:16 | 7439-89-6 | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 11/20/23 14:55 | 11/21/23 14:16 | 7439-96-5 | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 11/20/23 14:55 | 11/21/23 14:16 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 11/20/23 14:55 | 11/21/23 14:16 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 11/20/23 14:55 | 11/21/23 14:16 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 11/20/23 14:55 | 11/21/23 14:16 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 11/28/23 10:12 | 11/29/23 21:23 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.00084 | 1 | 11/28/23 10:12 | 11/29/23 21:23 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00047 | 1 | 11/28/23 10:12 | 11/29/23 21:23 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 11/28/23 10:12 | 11/29/23 21:23 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 11/28/23 10:12 | 11/29/23 21:23 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 11/28/23 10:12 | 11/29/23 21:23 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 11/28/23 10:12 | 11/29/23 21:23 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 11/28/23 10:12 | 11/29/23 21:23 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 11/28/23 10:12 | 11/29/23 21:23 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 11/28/23 10:12 | 11/29/23 21:23 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 11/28/23 10:12 | 11/29/23 21:23 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 11/28/23 10:12 | 11/29/23 21:23 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 11/28/23 10:12 | 11/29/23 21:23 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 11/30/23 10:30 | 11/30/23 13:29 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 11/17/23 13:33 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/22/23 12:29 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/22/23 12:29 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 11/22/23 12:29 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 11/18/23 03:25 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 11/17/23 19:01 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1
 Pace Project No.: 92698920

Sample: HAM-AP1-FB-01 **Lab ID: 92698920004** Collected: 11/14/23 19:25 Received: 11/15/23 13:06 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
 Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|----|------|------|-------|---|--|----------------|------------|--|
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 11/17/23 19:01 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 11/17/23 19:01 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92698920

| Sample: HAM-AP1-FD-01 | | Lab ID: 92698920005 | | Collected: 11/14/23 00:00 | | Received: 11/15/23 13:06 | | Matrix: Water | |
|-------------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 0.60 | mg/L | 0.040 | 0.025 | 1 | 11/20/23 14:55 | 11/21/23 14:20 | 7439-89-6 | |
| Manganese | 0.84 | mg/L | 0.040 | 0.011 | 1 | 11/20/23 14:55 | 11/21/23 14:20 | 7439-96-5 | |
| Potassium | 6.7 | mg/L | 0.50 | 0.15 | 1 | 11/20/23 14:55 | 11/21/23 14:20 | 7440-09-7 | |
| Sodium | 7.2 | mg/L | 1.0 | 0.58 | 1 | 11/20/23 14:55 | 11/21/23 14:20 | 7440-23-5 | |
| Calcium | 121 | mg/L | 1.0 | 0.12 | 1 | 11/20/23 14:55 | 11/21/23 14:20 | 7440-70-2 | |
| Magnesium | 15.6 | mg/L | 0.050 | 0.012 | 1 | 11/20/23 14:55 | 11/21/23 14:20 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 11/28/23 10:12 | 11/29/23 21:35 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.00084 | 1 | 11/28/23 10:12 | 11/29/23 21:35 | 7440-38-2 | |
| Barium | 0.060 | mg/L | 0.0050 | 0.00047 | 1 | 11/28/23 10:12 | 11/29/23 21:35 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 11/28/23 10:12 | 11/30/23 16:07 | 7440-41-7 | |
| Boron | 1.2 | mg/L | 0.040 | 0.012 | 1 | 11/28/23 10:12 | 11/30/23 16:07 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 11/28/23 10:12 | 11/29/23 21:35 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 11/28/23 10:12 | 11/29/23 21:35 | 7440-47-3 | |
| Cobalt | 0.0023J | mg/L | 0.0050 | 0.00032 | 1 | 11/28/23 10:12 | 11/29/23 21:35 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 11/28/23 10:12 | 11/29/23 21:35 | 7439-92-1 | |
| Lithium | 0.0021J | mg/L | 0.030 | 0.0016 | 1 | 11/28/23 10:12 | 11/30/23 16:07 | 7439-93-2 | |
| Molybdenum | 0.18 | mg/L | 0.010 | 0.00062 | 1 | 11/28/23 10:12 | 11/29/23 21:35 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 11/28/23 10:12 | 11/29/23 21:35 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 11/28/23 10:12 | 11/29/23 21:35 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 11/30/23 10:30 | 11/30/23 13:31 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 496 | mg/L | 25.0 | 25.0 | 1 | | 11/17/23 13:33 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 138 | mg/L | 5.0 | 5.0 | 1 | | 11/22/23 12:34 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/22/23 12:34 | | |
| Alkalinity, Total as CaCO3 | 138 | mg/L | 5.0 | 5.0 | 1 | | 11/22/23 12:34 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 11/18/23 03:25 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 43.3 | mg/L | 1.0 | 0.60 | 1 | | 11/17/23 04:49 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92698920

Sample: HAM-AP1-FD-01 Lab ID: 92698920005 Collected: 11/14/23 00:00 Received: 11/15/23 13:06 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.35 | mg/L | 0.10 | 0.050 | 1 | | 11/17/23 04:49 | 16984-48-8 | |
| Sulfate | 182 | mg/L | 4.0 | 2.0 | 4 | | 11/17/23 16:01 | 14808-79-8 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92698920

QC Batch: 814536 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92698920001, 92698920002, 92698920003, 92698920004, 92698920005

METHOD BLANK: 4217035 Matrix: Water
 Associated Lab Samples: 92698920001, 92698920002, 92698920003, 92698920004, 92698920005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 11/21/23 13:18 | |
| Iron | mg/L | ND | 0.040 | 0.025 | 11/21/23 13:18 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 11/21/23 13:18 | |
| Manganese | mg/L | ND | 0.040 | 0.011 | 11/21/23 13:18 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 11/21/23 13:18 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 11/21/23 13:18 | |

LABORATORY CONTROL SAMPLE: 4217036

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 1 | 1.0 | 101 | 80-120 | |
| Iron | mg/L | 1 | 1.0 | 102 | 80-120 | |
| Magnesium | mg/L | 1 | 1.0 | 100 | 80-120 | |
| Manganese | mg/L | 1 | 0.98 | 98 | 80-120 | |
| Potassium | mg/L | 1 | 1.0 | 104 | 80-120 | |
| Sodium | mg/L | 1 | 0.99J | 99 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4217037 4217038

| Parameter | Units | MS | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|--------|--------|-------|-------|--------|--------------|-----|---------|------|
| | | 92698920001 Result | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec | | | | | |
| Calcium | mg/L | 111 | 1 | 1 | 115 | 112 | 428 | 172 | 75-125 | 2 | 20 | M1 | |
| Iron | mg/L | ND | 1 | 1 | 1.0 | 1.0 | 103 | 102 | 75-125 | 2 | 20 | | |
| Magnesium | mg/L | 18.9 | 1 | 1 | 20.7 | 20.2 | 180 | 129 | 75-125 | 3 | 20 | M1 | |
| Manganese | mg/L | 0.23 | 1 | 1 | 1.2 | 1.2 | 100 | 98 | 75-125 | 1 | 20 | | |
| Potassium | mg/L | 4.9 | 1 | 1 | 6.3 | 6.0 | 136 | 108 | 75-125 | 5 | 20 | M1 | |
| Sodium | mg/L | 6.9 | 1 | 1 | 8.3 | 8.0 | 134 | 108 | 75-125 | 3 | 20 | M1 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92698920

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 815690 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6020 MET |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92698920001, 92698920002, 92698920003, 92698920004, 92698920005

METHOD BLANK: 4221994 Matrix: Water

Associated Lab Samples: 92698920001, 92698920002, 92698920003, 92698920004, 92698920005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00054 | 11/29/23 20:48 | |
| Arsenic | mg/L | ND | 0.010 | 0.00084 | 11/29/23 20:48 | |
| Barium | mg/L | ND | 0.0050 | 0.00047 | 11/29/23 20:48 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000094 | 11/29/23 20:48 | |
| Boron | mg/L | ND | 0.040 | 0.012 | 11/29/23 20:48 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00010 | 11/29/23 20:48 | |
| Chromium | mg/L | ND | 0.0050 | 0.0019 | 11/29/23 20:48 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00032 | 11/29/23 20:48 | |
| Lead | mg/L | ND | 0.0010 | 0.00016 | 11/29/23 20:48 | |
| Lithium | mg/L | ND | 0.030 | 0.0016 | 11/29/23 20:48 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00062 | 11/29/23 20:48 | |
| Selenium | mg/L | ND | 0.0050 | 0.00096 | 11/29/23 20:48 | |
| Thallium | mg/L | ND | 0.0010 | 0.00038 | 11/29/23 20:48 | |

LABORATORY CONTROL SAMPLE: 4221995

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.11 | 113 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Barium | mg/L | 0.1 | 0.094 | 94 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.11 | 112 | 80-120 | |
| Boron | mg/L | 1 | 1.1 | 107 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.11 | 108 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.11 | 108 | 80-120 | |
| Lead | mg/L | 0.1 | 0.099 | 99 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.11 | 110 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.094 | 94 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4221996 4221997

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92698920001 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.1 | 0.11 | 0.11 | 111 | 115 | 75-125 | 3 | 20 | |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.1 | 0.11 | 0.11 | 105 | 106 | 75-125 | 1 | 20 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92698920

| Parameter | Units | 4221996 | | 4221997 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 92698920001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Barium | mg/L | 0.10 | 0.1 | 0.1 | 0.19 | 0.20 | 90 | 93 | 75-125 | 1 | 20 | | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.091 | 0.095 | 91 | 95 | 75-125 | 4 | 20 | | |
| Boron | mg/L | 1.2 | 1 | 1 | 2.0 | 2.0 | 87 | 88 | 75-125 | 0 | 20 | | |
| Cadmium | mg/L | 0.00011J | 0.1 | 0.1 | 0.10 | 0.10 | 100 | 103 | 75-125 | 3 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.11 | 108 | 107 | 75-125 | 1 | 20 | | |
| Cobalt | mg/L | 0.0013J | 0.1 | 0.1 | 0.11 | 0.11 | 105 | 106 | 75-125 | 0 | 20 | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.091 | 0.092 | 91 | 92 | 75-125 | 1 | 20 | | |
| Lithium | mg/L | ND | 0.1 | 0.1 | 0.099 | 0.10 | 97 | 101 | 75-125 | 4 | 20 | | |
| Molybdenum | mg/L | 0.20 | 0.1 | 0.1 | 0.29 | 0.28 | 87 | 83 | 75-125 | 2 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.11 | 105 | 106 | 75-125 | 1 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.089 | 0.091 | 89 | 91 | 75-125 | 2 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92698920

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 816279 | Analysis Method: | EPA 7470A |
| QC Batch Method: | EPA 7470A | Analysis Description: | 7470 Mercury |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92698920001, 92698920002, 92698920003, 92698920004, 92698920005

METHOD BLANK: 4225100 Matrix: Water
 Associated Lab Samples: 92698920001, 92698920002, 92698920003, 92698920004, 92698920005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00020 | 0.00013 | 11/30/23 13:08 | |

LABORATORY CONTROL SAMPLE: 4225101

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0025 | 99 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4225104 4225105

| Parameter | Units | 4225104 | | 4225105 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Mercury | mg/L | ND | 0.0025 | 0.0024 | 0.0024 | 97 | 97 | 75-125 | 1 | 20 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92698920

| | | | |
|------------------|---------------|-----------------------|--|
| QC Batch: | 814083 | Analysis Method: | SM 2540C-2015 |
| QC Batch Method: | SM 2540C-2015 | Analysis Description: | 2540C Total Dissolved Solids |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92698920001, 92698920002, 92698920003, 92698920004, 92698920005

METHOD BLANK: 4214606 Matrix: Water
 Associated Lab Samples: 92698920001, 92698920002, 92698920003, 92698920004, 92698920005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 11/17/23 13:28 | |

LABORATORY CONTROL SAMPLE: 4214607

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 436 | 109 | 80-120 | |

SAMPLE DUPLICATE: 4214608

| Parameter | Units | 92698763001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 147 | 86.0 | 52 | 10 | D6 |

SAMPLE DUPLICATE: 4214609

| Parameter | Units | 92699231001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 460 | 460 | 0 | 10 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92698920

QC Batch: 815013 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92698920001, 92698920002, 92698920003, 92698920004, 92698920005

METHOD BLANK: 4219224 Matrix: Water
 Associated Lab Samples: 92698920001, 92698920002, 92698920003, 92698920004, 92698920005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 11/22/23 10:39 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 11/22/23 10:39 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 11/22/23 10:39 | |

LABORATORY CONTROL SAMPLE: 4219225

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 51.3 | 103 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4219226

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 51.3 | 103 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4219227 4219228

| Parameter | Units | 4219227 | | 4219228 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|
| | | 92698654001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 139 | 50 | 50 | 181 | 187 | 85 | 97 | 80-120 | 3 | 25 |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92698920

QC Batch: 814252 Analysis Method: SM 4500-S2D-2011
 QC Batch Method: SM 4500-S2D-2011 Analysis Description: 4500S2D Sulfide Water
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92698920001, 92698920002, 92698920003, 92698920004, 92698920005

METHOD BLANK: 4216083 Matrix: Water
 Associated Lab Samples: 92698920001, 92698920002, 92698920003, 92698920004, 92698920005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide | mg/L | ND | 0.10 | 0.022 | 11/18/23 03:15 | |

LABORATORY CONTROL SAMPLE: 4216084

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide | mg/L | 0.5 | 0.50 | 101 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4216085 4216086

| Parameter | Units | 4216085 | | 4216086 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|
| | | 92698519001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.51 | 0.53 | 102 | 107 | 80-120 | 4 | 10 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4216087 4216088

| Parameter | Units | 4216087 | | 4216088 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|
| | | 92698654006 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.52 | 0.52 | 104 | 104 | 80-120 | 0 | 10 |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92698920

QC Batch: 813934 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92698920001, 92698920002, 92698920003, 92698920004, 92698920005

METHOD BLANK: 4214098 Matrix: Water
 Associated Lab Samples: 92698920001, 92698920002, 92698920003, 92698920004, 92698920005

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 11/17/23 18:02 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 11/17/23 18:02 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 11/17/23 18:02 | |

LABORATORY CONTROL SAMPLE: 4214099

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 52.7 | 105 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.6 | 104 | 90-110 | |
| Sulfate | mg/L | 50 | 53.1 | 106 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4214100 4214101

| Parameter | Units | 92699019011 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|-----------|------------|----------|-----------|--------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | | | | | |
| Chloride | mg/L | 1.7 | 50 | 50 | 52.0 | 53.1 | 101 | 103 | 90-110 | 2 | 10 | | |
| Fluoride | mg/L | ND | 2.5 | 2.5 | 2.4 | 2.5 | 94 | 96 | 90-110 | 3 | 10 | | |
| Sulfate | mg/L | 8.6 | 50 | 50 | 59.4 | 60.5 | 102 | 104 | 90-110 | 2 | 10 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4214102 4214103

| Parameter | Units | 92698920001 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|-----------|------------|----------|-----------|--------|--------------|-----|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | | | | | |
| Chloride | mg/L | 38.5 | 50 | 50 | 88.2 | 89.4 | 99 | 102 | 90-110 | 1 | 10 | | |
| Fluoride | mg/L | 0.35 | 2.5 | 2.5 | 2.7 | 2.8 | 96 | 98 | 90-110 | 2 | 10 | | |
| Sulfate | mg/L | 179 | 50 | 50 | 225 | 227 | 91 | 96 | 90-110 | 1 | 10 | | |

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QUALIFIERS

Project: Hammond AP-1

Pace Project No.: 92698920

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1

Pace Project No.: 92698920

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|------------------------|----------|-------------------|------------------|
| 92698920001 | HAM-PT-09 | EPA 3010A | 814536 | EPA 6010D | 814604 |
| 92698920002 | HAM-PT-10 | EPA 3010A | 814536 | EPA 6010D | 814604 |
| 92698920003 | HAM-AP1-EB-01 | EPA 3010A | 814536 | EPA 6010D | 814604 |
| 92698920004 | HAM-AP1-FB-01 | EPA 3010A | 814536 | EPA 6010D | 814604 |
| 92698920005 | HAM-AP1-FD-01 | EPA 3010A | 814536 | EPA 6010D | 814604 |
| 92698920001 | HAM-PT-09 | EPA 3005A | 815690 | EPA 6020B | 815855 |
| 92698920002 | HAM-PT-10 | EPA 3005A | 815690 | EPA 6020B | 815855 |
| 92698920003 | HAM-AP1-EB-01 | EPA 3005A | 815690 | EPA 6020B | 815855 |
| 92698920004 | HAM-AP1-FB-01 | EPA 3005A | 815690 | EPA 6020B | 815855 |
| 92698920005 | HAM-AP1-FD-01 | EPA 3005A | 815690 | EPA 6020B | 815855 |
| 92698920001 | HAM-PT-09 | EPA 7470A | 816279 | EPA 7470A | 816391 |
| 92698920002 | HAM-PT-10 | EPA 7470A | 816279 | EPA 7470A | 816391 |
| 92698920003 | HAM-AP1-EB-01 | EPA 7470A | 816279 | EPA 7470A | 816391 |
| 92698920004 | HAM-AP1-FB-01 | EPA 7470A | 816279 | EPA 7470A | 816391 |
| 92698920005 | HAM-AP1-FD-01 | EPA 7470A | 816279 | EPA 7470A | 816391 |
| 92698920001 | HAM-PT-09 | SM 2540C-2015 | 814083 | | |
| 92698920002 | HAM-PT-10 | SM 2540C-2015 | 814083 | | |
| 92698920003 | HAM-AP1-EB-01 | SM 2540C-2015 | 814083 | | |
| 92698920004 | HAM-AP1-FB-01 | SM 2540C-2015 | 814083 | | |
| 92698920005 | HAM-AP1-FD-01 | SM 2540C-2015 | 814083 | | |
| 92698920001 | HAM-PT-09 | SM 2320B-2011 | 815013 | | |
| 92698920002 | HAM-PT-10 | SM 2320B-2011 | 815013 | | |
| 92698920003 | HAM-AP1-EB-01 | SM 2320B-2011 | 815013 | | |
| 92698920004 | HAM-AP1-FB-01 | SM 2320B-2011 | 815013 | | |
| 92698920005 | HAM-AP1-FD-01 | SM 2320B-2011 | 815013 | | |
| 92698920001 | HAM-PT-09 | SM 4500-S2D-2011 | 814252 | | |
| 92698920002 | HAM-PT-10 | SM 4500-S2D-2011 | 814252 | | |
| 92698920003 | HAM-AP1-EB-01 | SM 4500-S2D-2011 | 814252 | | |
| 92698920004 | HAM-AP1-FB-01 | SM 4500-S2D-2011 | 814252 | | |
| 92698920005 | HAM-AP1-FD-01 | SM 4500-S2D-2011 | 814252 | | |
| 92698920001 | HAM-PT-09 | EPA 300.0 Rev 2.1 1993 | 813934 | | |
| 92698920002 | HAM-PT-10 | EPA 300.0 Rev 2.1 1993 | 813934 | | |
| 92698920003 | HAM-AP1-EB-01 | EPA 300.0 Rev 2.1 1993 | 813934 | | |
| 92698920004 | HAM-AP1-FB-01 | EPA 300.0 Rev 2.1 1993 | 813934 | | |
| 92698920005 | HAM-AP1-FD-01 | EPA 300.0 Rev 2.1 1993 | 813934 | | |

REPORT OF LABORATORY ANALYSIS

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DC#_ Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Project #:

WO#: 92698920



Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 11-15-23 JCC

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: 230

Type of Ice: Wet Blue None

Cooler Temp: 4.0 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.0

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

| | | Comments/Discrepancy: |
|---|--|-----------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers Intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 7. |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 8. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: | W | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO# : 92698920

PM: BV

Due Date: 12/01/23

CLIENT: 92- GP-HAM

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2SO3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | V5GU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|-----------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|--|
| 1 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



December 08, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92700191

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on November 22, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Angela Baioni for
Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec
Anthony Szwast, Geosyntec Consultants



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-1

Pace Project No.: 92700191

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92700191

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|---------------|--------|----------------|----------------|
| 92700191001 | HAM-PT-07 | Water | 11/21/23 12:20 | 11/22/23 13:20 |
| 92700191002 | HAM-PT-8 | Water | 11/21/23 14:45 | 11/22/23 13:20 |
| 92700191003 | HAM-AP1-EB-01 | Water | 11/21/23 16:03 | 11/22/23 13:20 |
| 92700191004 | HAM-AP1-FB-01 | Water | 11/21/23 16:20 | 11/22/23 13:20 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1

Pace Project No.: 92700191

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|---------------|------------------------|----------|-------------------|
| 92700191001 | HAM-PT-07 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | MT1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92700191002 | HAM-PT-8 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | MT1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92700191003 | HAM-AP1-EB-01 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | MT1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |
| 92700191004 | HAM-AP1-FB-01 | EPA 6010D | DRB | 6 |
| | | EPA 6020B | MT1 | 13 |
| | | EPA 7470A | VB | 1 |
| | | SM 2540C-2015 | DL1 | 1 |
| | | SM 2320B-2011 | SMS | 3 |
| | | SM 4500-S2D-2011 | JP1 | 1 |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 |

PASI-A = Pace Analytical Services - Asheville

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1

Pace Project No.: 92700191

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|----------|-------|--------------|----------------|------------|
| 92700191001 | HAM-PT-07 | | | | | |
| EPA 6010D | Iron | 17.7 | mg/L | 0.040 | 12/05/23 11:05 | M1 |
| EPA 6010D | Manganese | 4.5 | mg/L | 0.040 | 12/04/23 21:31 | |
| EPA 6010D | Potassium | 6.4 | mg/L | 0.50 | 12/04/23 21:31 | M1 |
| EPA 6010D | Sodium | 7.0 | mg/L | 1.0 | 12/04/23 21:31 | M1 |
| EPA 6010D | Calcium | 121 | mg/L | 1.0 | 12/04/23 21:31 | M1 |
| EPA 6010D | Magnesium | 15.1 | mg/L | 0.050 | 12/04/23 21:31 | M1 |
| EPA 6020B | Arsenic | 0.34 | mg/L | 0.010 | 12/06/23 13:41 | |
| EPA 6020B | Barium | 0.058 | mg/L | 0.0050 | 12/06/23 13:41 | |
| EPA 6020B | Beryllium | 0.00014J | mg/L | 0.00050 | 12/06/23 13:41 | |
| EPA 6020B | Boron | 1.0 | mg/L | 0.040 | 12/06/23 13:41 | |
| EPA 6020B | Cobalt | 0.085 | mg/L | 0.0050 | 12/06/23 13:41 | |
| EPA 6020B | Lithium | 0.060 | mg/L | 0.030 | 12/06/23 13:41 | |
| EPA 6020B | Molybdenum | 0.015 | mg/L | 0.010 | 12/06/23 13:41 | |
| SM 2540C-2015 | Total Dissolved Solids | 566 | mg/L | 25.0 | 11/28/23 12:19 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 138 | mg/L | 5.0 | 11/30/23 18:49 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 138 | mg/L | 5.0 | 11/30/23 18:49 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 17.6 | mg/L | 1.0 | 11/25/23 18:25 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.36 | mg/L | 0.10 | 11/25/23 18:25 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 248 | mg/L | 5.0 | 11/26/23 00:06 | M1 |
| 92700191002 | HAM-PT-8 | | | | | |
| EPA 6010D | Iron | 6.7 | mg/L | 0.040 | 12/05/23 11:20 | |
| EPA 6010D | Manganese | 3.5 | mg/L | 0.040 | 12/04/23 21:50 | |
| EPA 6010D | Potassium | 5.9 | mg/L | 0.50 | 12/04/23 21:50 | |
| EPA 6010D | Sodium | 7.0 | mg/L | 1.0 | 12/04/23 21:50 | |
| EPA 6010D | Calcium | 125 | mg/L | 1.0 | 12/04/23 21:50 | |
| EPA 6010D | Magnesium | 14.4 | mg/L | 0.050 | 12/04/23 21:50 | |
| EPA 6020B | Arsenic | 0.28 | mg/L | 0.010 | 12/06/23 13:45 | |
| EPA 6020B | Barium | 0.051 | mg/L | 0.0050 | 12/06/23 13:45 | |
| EPA 6020B | Boron | 1.1 | mg/L | 0.040 | 12/06/23 13:45 | |
| EPA 6020B | Cobalt | 0.028 | mg/L | 0.0050 | 12/06/23 13:45 | |
| EPA 6020B | Lithium | 0.026J | mg/L | 0.030 | 12/06/23 13:45 | |
| EPA 6020B | Molybdenum | 0.032 | mg/L | 0.010 | 12/06/23 13:45 | |
| SM 2540C-2015 | Total Dissolved Solids | 545 | mg/L | 25.0 | 11/28/23 12:20 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 144 | mg/L | 5.0 | 11/30/23 19:14 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 144 | mg/L | 5.0 | 11/30/23 19:14 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 18.9 | mg/L | 1.0 | 11/25/23 19:07 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.32 | mg/L | 0.10 | 11/25/23 19:07 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 247 | mg/L | 5.0 | 11/26/23 00:49 | |
| 92700191003 | HAM-AP1-EB-01 | | | | | |
| EPA 6010D | Iron | 0.062 | mg/L | 0.040 | 12/05/23 11:25 | |
| EPA 6020B | Antimony | 0.0011J | mg/L | 0.0030 | 12/06/23 14:02 | |
| EPA 6020B | Boron | 0.029J | mg/L | 0.040 | 12/06/23 14:02 | |
| SM 2540C-2015 | Total Dissolved Solids | 120 | mg/L | 25.0 | 11/28/23 12:20 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92700191

| Sample: HAM-PT-07 | | Lab ID: 92700191001 | | Collected: 11/21/23 12:20 | | Received: 11/22/23 13:20 | | Matrix: Water | |
|-------------------------------------|----------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 17.7 | mg/L | 0.040 | 0.025 | 1 | 11/29/23 13:50 | 12/05/23 11:05 | 7439-89-6 | M1 |
| Manganese | 4.5 | mg/L | 0.040 | 0.011 | 1 | 11/29/23 13:50 | 12/04/23 21:31 | 7439-96-5 | |
| Potassium | 6.4 | mg/L | 0.50 | 0.15 | 1 | 11/29/23 13:50 | 12/04/23 21:31 | 7440-09-7 | M1 |
| Sodium | 7.0 | mg/L | 1.0 | 0.58 | 1 | 11/29/23 13:50 | 12/04/23 21:31 | 7440-23-5 | M1 |
| Calcium | 121 | mg/L | 1.0 | 0.12 | 1 | 11/29/23 13:50 | 12/04/23 21:31 | 7440-70-2 | M1 |
| Magnesium | 15.1 | mg/L | 0.050 | 0.012 | 1 | 11/29/23 13:50 | 12/04/23 21:31 | 7439-95-4 | M1 |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 12/04/23 11:17 | 12/06/23 13:41 | 7440-36-0 | |
| Arsenic | 0.34 | mg/L | 0.010 | 0.00084 | 1 | 12/04/23 11:17 | 12/06/23 13:41 | 7440-38-2 | |
| Barium | 0.058 | mg/L | 0.0050 | 0.00047 | 1 | 12/04/23 11:17 | 12/06/23 13:41 | 7440-39-3 | |
| Beryllium | 0.00014J | mg/L | 0.00050 | 0.000094 | 1 | 12/04/23 11:17 | 12/06/23 13:41 | 7440-41-7 | |
| Boron | 1.0 | mg/L | 0.040 | 0.012 | 1 | 12/04/23 11:17 | 12/06/23 13:41 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 12/04/23 11:17 | 12/06/23 13:41 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 12/04/23 11:17 | 12/06/23 13:41 | 7440-47-3 | |
| Cobalt | 0.085 | mg/L | 0.0050 | 0.00032 | 1 | 12/04/23 11:17 | 12/06/23 13:41 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 12/04/23 11:17 | 12/06/23 13:41 | 7439-92-1 | |
| Lithium | 0.060 | mg/L | 0.030 | 0.0016 | 1 | 12/04/23 11:17 | 12/06/23 13:41 | 7439-93-2 | |
| Molybdenum | 0.015 | mg/L | 0.010 | 0.00062 | 1 | 12/04/23 11:17 | 12/06/23 13:41 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 12/04/23 11:17 | 12/06/23 13:41 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 12/04/23 11:17 | 12/06/23 13:41 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 12/04/23 16:00 | 12/05/23 10:17 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 566 | mg/L | 25.0 | 25.0 | 1 | | 11/28/23 12:19 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 138 | mg/L | 5.0 | 5.0 | 1 | | 11/30/23 18:49 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/30/23 18:49 | | |
| Alkalinity, Total as CaCO3 | 138 | mg/L | 5.0 | 5.0 | 1 | | 11/30/23 18:49 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 11/23/23 04:31 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 17.6 | mg/L | 1.0 | 0.60 | 1 | | 11/25/23 18:25 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92700191

Sample: HAM-PT-07 **Lab ID: 92700191001** Collected: 11/21/23 12:20 Received: 11/22/23 13:20 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|----|
| Fluoride | 0.36 | mg/L | 0.10 | 0.050 | 1 | | 11/25/23 18:25 | 16984-48-8 | |
| Sulfate | 248 | mg/L | 5.0 | 2.5 | 5 | | 11/26/23 00:06 | 14808-79-8 | M1 |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92700191

| Sample: HAM-PT-8 | | Lab ID: 92700191002 | | Collected: 11/21/23 14:45 | | Received: 11/22/23 13:20 | | Matrix: Water | |
|-------------------------------------|---------|--|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | 6.7 | mg/L | 0.040 | 0.025 | 1 | 11/29/23 13:50 | 12/05/23 11:20 | 7439-89-6 | |
| Manganese | 3.5 | mg/L | 0.040 | 0.011 | 1 | 11/29/23 13:50 | 12/04/23 21:50 | 7439-96-5 | |
| Potassium | 5.9 | mg/L | 0.50 | 0.15 | 1 | 11/29/23 13:50 | 12/04/23 21:50 | 7440-09-7 | |
| Sodium | 7.0 | mg/L | 1.0 | 0.58 | 1 | 11/29/23 13:50 | 12/04/23 21:50 | 7440-23-5 | |
| Calcium | 125 | mg/L | 1.0 | 0.12 | 1 | 11/29/23 13:50 | 12/04/23 21:50 | 7440-70-2 | |
| Magnesium | 14.4 | mg/L | 0.050 | 0.012 | 1 | 11/29/23 13:50 | 12/04/23 21:50 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 12/04/23 11:17 | 12/06/23 13:45 | 7440-36-0 | |
| Arsenic | 0.28 | mg/L | 0.010 | 0.00084 | 1 | 12/04/23 11:17 | 12/06/23 13:45 | 7440-38-2 | |
| Barium | 0.051 | mg/L | 0.0050 | 0.00047 | 1 | 12/04/23 11:17 | 12/06/23 13:45 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 12/04/23 11:17 | 12/06/23 13:45 | 7440-41-7 | |
| Boron | 1.1 | mg/L | 0.040 | 0.012 | 1 | 12/04/23 11:17 | 12/06/23 13:45 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 12/04/23 11:17 | 12/06/23 13:45 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 12/04/23 11:17 | 12/06/23 13:45 | 7440-47-3 | |
| Cobalt | 0.028 | mg/L | 0.0050 | 0.00032 | 1 | 12/04/23 11:17 | 12/06/23 13:45 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 12/04/23 11:17 | 12/06/23 13:45 | 7439-92-1 | |
| Lithium | 0.026J | mg/L | 0.030 | 0.0016 | 1 | 12/04/23 11:17 | 12/06/23 13:45 | 7439-93-2 | |
| Molybdenum | 0.032 | mg/L | 0.010 | 0.00062 | 1 | 12/04/23 11:17 | 12/06/23 13:45 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 12/04/23 11:17 | 12/06/23 13:45 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 12/04/23 11:17 | 12/06/23 13:45 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 12/04/23 16:00 | 12/05/23 10:20 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | 545 | mg/L | 25.0 | 25.0 | 1 | | 11/28/23 12:20 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 144 | mg/L | 5.0 | 5.0 | 1 | | 11/30/23 19:14 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/30/23 19:14 | | |
| Alkalinity, Total as CaCO3 | 144 | mg/L | 5.0 | 5.0 | 1 | | 11/30/23 19:14 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 11/23/23 04:31 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 18.9 | mg/L | 1.0 | 0.60 | 1 | | 11/25/23 19:07 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92700191

Sample: HAM-PT-8 Lab ID: 92700191002 Collected: 11/21/23 14:45 Received: 11/22/23 13:20 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|-----------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|-------------|------|------|-------|---|--|----------------|------------|--|
| Fluoride | 0.32 | mg/L | 0.10 | 0.050 | 1 | | 11/25/23 19:07 | 16984-48-8 | |
| Sulfate | 247 | mg/L | 5.0 | 2.5 | 5 | | 11/26/23 00:49 | 14808-79-8 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92700191

Sample: HAM-AP1-EB-01 **Lab ID: 92700191003** Collected: 11/21/23 16:03 Received: 11/22/23 13:20 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---|----------------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.062 | mg/L | 0.040 | 0.025 | 1 | 11/29/23 13:50 | 12/05/23 11:25 | 7439-89-6 | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 11/29/23 13:50 | 12/04/23 21:55 | 7439-96-5 | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 11/29/23 13:50 | 12/04/23 21:55 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 11/29/23 13:50 | 12/04/23 21:55 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 11/29/23 13:50 | 12/04/23 21:55 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 11/29/23 13:50 | 12/04/23 21:55 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | 0.0011J | mg/L | 0.0030 | 0.00054 | 1 | 12/04/23 11:17 | 12/06/23 14:02 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.00084 | 1 | 12/04/23 11:17 | 12/06/23 14:02 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00047 | 1 | 12/04/23 11:17 | 12/06/23 14:02 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 12/04/23 11:17 | 12/06/23 14:02 | 7440-41-7 | |
| Boron | 0.029J | mg/L | 0.040 | 0.012 | 1 | 12/04/23 11:17 | 12/06/23 14:02 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 12/04/23 11:17 | 12/06/23 14:02 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 12/04/23 11:17 | 12/06/23 14:02 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 12/04/23 11:17 | 12/06/23 14:02 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 12/04/23 11:17 | 12/06/23 14:02 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 12/04/23 11:17 | 12/06/23 14:02 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 12/04/23 11:17 | 12/06/23 14:02 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 12/04/23 11:17 | 12/06/23 14:02 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 12/04/23 11:17 | 12/06/23 14:02 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 12/04/23 16:00 | 12/05/23 10:23 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 120 | mg/L | 25.0 | 25.0 | 1 | | 11/28/23 12:20 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/30/23 20:03 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/30/23 20:03 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 11/30/23 20:03 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 11/23/23 04:32 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 11/25/23 13:41 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92700191

Sample: HAM-AP1-EB-01 Lab ID: 92700191003 Collected: 11/21/23 16:03 Received: 11/22/23 13:20 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

| | | | | | | | | | |
|----------|----|------|------|-------|---|--|----------------|------------|--|
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 11/25/23 13:41 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 11/25/23 13:41 | 14808-79-8 | |

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**ANALYTICAL RESULTS**

Project: Hammond AP-1

Pace Project No.: 92700191

Sample: HAM-AP1-FB-01 **Lab ID: 92700191004** Collected: 11/21/23 16:20 Received: 11/22/23 13:20 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|---------|----------|----|----------------|----------------|------------|------|
| | | | Limit | MDL | DF | | | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Manganese | ND | mg/L | 0.040 | 0.011 | 1 | 11/29/23 13:50 | 12/04/23 22:00 | 7439-96-5 | |
| Potassium | ND | mg/L | 0.50 | 0.15 | 1 | 11/29/23 13:50 | 12/04/23 22:00 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 11/29/23 13:50 | 12/04/23 22:00 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 11/29/23 13:50 | 12/04/23 22:00 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 11/29/23 13:50 | 12/04/23 22:00 | 7439-95-4 | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 11/29/23 13:50 | 12/05/23 11:30 | 7439-89-6 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00054 | 1 | 12/04/23 11:17 | 12/06/23 14:06 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.010 | 0.00084 | 1 | 12/04/23 11:17 | 12/06/23 14:06 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00047 | 1 | 12/04/23 11:17 | 12/06/23 14:06 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000094 | 1 | 12/04/23 11:17 | 12/06/23 14:06 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.012 | 1 | 12/04/23 11:17 | 12/06/23 14:06 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00010 | 1 | 12/04/23 11:17 | 12/06/23 14:06 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0019 | 1 | 12/04/23 11:17 | 12/06/23 14:06 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00032 | 1 | 12/04/23 11:17 | 12/06/23 14:06 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00016 | 1 | 12/04/23 11:17 | 12/06/23 14:06 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.0016 | 1 | 12/04/23 11:17 | 12/06/23 14:06 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00062 | 1 | 12/04/23 11:17 | 12/06/23 14:06 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.00096 | 1 | 12/04/23 11:17 | 12/06/23 14:06 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00038 | 1 | 12/04/23 11:17 | 12/06/23 14:06 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 12/04/23 16:00 | 12/05/23 10:25 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 25.0 | 25.0 | 1 | | 11/28/23 12:20 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/30/23 20:07 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 11/30/23 20:07 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 11/30/23 20:07 | | |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.022 | 1 | | 11/23/23 04:33 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 11/25/23 13:55 | 16887-00-6 | |

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ANALYTICAL RESULTS

Project: Hammond AP-1

Pace Project No.: 92700191

Sample: HAM-AP1-FB-01 Lab ID: 92700191004 Collected: 11/21/23 16:20 Received: 11/22/23 13:20 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----------------|-------|----|----------|----------------|------------|------|
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 11/25/23 13:55 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 11/25/23 13:55 | 14808-79-8 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92700191

QC Batch: 816107 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92700191001, 92700191002, 92700191003, 92700191004

METHOD BLANK: 4224079 Matrix: Water
 Associated Lab Samples: 92700191001, 92700191002, 92700191003, 92700191004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Calcium | mg/L | ND | 1.0 | 0.12 | 12/04/23 21:21 | |
| Iron | mg/L | ND | 0.040 | 0.025 | 12/05/23 10:56 | |
| Magnesium | mg/L | ND | 0.050 | 0.012 | 12/04/23 21:21 | |
| Manganese | mg/L | ND | 0.040 | 0.011 | 12/04/23 21:21 | |
| Potassium | mg/L | ND | 0.50 | 0.15 | 12/04/23 21:21 | |
| Sodium | mg/L | ND | 1.0 | 0.58 | 12/04/23 21:21 | |

LABORATORY CONTROL SAMPLE: 4224080

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Calcium | mg/L | 1 | 0.95J | 95 | 80-120 | |
| Iron | mg/L | 1 | 1.0 | 104 | 80-120 | |
| Magnesium | mg/L | 1 | 0.98 | 98 | 80-120 | |
| Manganese | mg/L | 1 | 1.0 | 100 | 80-120 | |
| Potassium | mg/L | 1 | 1.1 | 115 | 80-120 | |
| Sodium | mg/L | 1 | 1.1 | 109 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4224081 4224082

| Parameter | Units | 4224081 | | 4224082 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | |
| Calcium | mg/L | 121 | 1 | 125 | 124 | 366 | 212 | 75-125 | 1 | 20 | M1 |
| Iron | mg/L | 17.7 | 1 | 19.4 | 19.4 | 166 | 166 | 75-125 | 0 | 20 | M1 |
| Magnesium | mg/L | 15.1 | 1 | 16.4 | 16.2 | 132 | 116 | 75-125 | 1 | 20 | M1 |
| Manganese | mg/L | 4.5 | 1 | 5.5 | 5.5 | 102 | 98 | 75-125 | 1 | 20 | |
| Potassium | mg/L | 6.4 | 1 | 7.7 | 7.6 | 128 | 117 | 75-125 | 1 | 20 | M1 |
| Sodium | mg/L | 7.0 | 1 | 8.3 | 8.3 | 132 | 129 | 75-125 | 0 | 20 | M1 |

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

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92700191

| | | | |
|------------------|-----------|-----------------------|--|
| QC Batch: | 817033 | Analysis Method: | EPA 6020B |
| QC Batch Method: | EPA 3005A | Analysis Description: | 6020 MET |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92700191001, 92700191002, 92700191003, 92700191004

METHOD BLANK: 4228731 Matrix: Water

Associated Lab Samples: 92700191001, 92700191002, 92700191003, 92700191004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------|-------|--------------|-----------------|----------|----------------|------------|
| Antimony | mg/L | ND | 0.0030 | 0.00054 | 12/06/23 13:33 | |
| Arsenic | mg/L | ND | 0.010 | 0.00084 | 12/06/23 13:33 | |
| Barium | mg/L | ND | 0.0050 | 0.00047 | 12/06/23 13:33 | |
| Beryllium | mg/L | ND | 0.00050 | 0.000094 | 12/06/23 13:33 | |
| Boron | mg/L | ND | 0.040 | 0.012 | 12/06/23 13:33 | |
| Cadmium | mg/L | ND | 0.00050 | 0.00010 | 12/06/23 13:33 | |
| Chromium | mg/L | ND | 0.0050 | 0.0019 | 12/06/23 13:33 | |
| Cobalt | mg/L | ND | 0.0050 | 0.00032 | 12/06/23 13:33 | |
| Lead | mg/L | ND | 0.0010 | 0.00016 | 12/06/23 13:33 | |
| Lithium | mg/L | ND | 0.030 | 0.0016 | 12/06/23 13:33 | |
| Molybdenum | mg/L | ND | 0.010 | 0.00062 | 12/06/23 13:33 | |
| Selenium | mg/L | ND | 0.0050 | 0.00096 | 12/06/23 13:33 | |
| Thallium | mg/L | ND | 0.0010 | 0.00038 | 12/06/23 13:33 | |

LABORATORY CONTROL SAMPLE: 4228732

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------|-------|-------------|------------|-----------|--------------|------------|
| Antimony | mg/L | 0.1 | 0.10 | 105 | 80-120 | |
| Arsenic | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Barium | mg/L | 0.1 | 0.11 | 105 | 80-120 | |
| Beryllium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Boron | mg/L | 1 | 1.1 | 106 | 80-120 | |
| Cadmium | mg/L | 0.1 | 0.10 | 101 | 80-120 | |
| Chromium | mg/L | 0.1 | 0.11 | 105 | 80-120 | |
| Cobalt | mg/L | 0.1 | 0.10 | 104 | 80-120 | |
| Lead | mg/L | 0.1 | 0.10 | 103 | 80-120 | |
| Lithium | mg/L | 0.1 | 0.11 | 107 | 80-120 | |
| Molybdenum | mg/L | 0.1 | 0.11 | 106 | 80-120 | |
| Selenium | mg/L | 0.1 | 0.11 | 105 | 80-120 | |
| Thallium | mg/L | 0.1 | 0.10 | 103 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4228733 4228734

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92700191002 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.1 | 0.10 | 0.10 | 104 | 101 | 75-125 | 3 | 20 | |
| Arsenic | mg/L | 0.28 | 0.1 | 0.1 | 0.1 | 0.39 | 0.39 | 104 | 101 | 75-125 | 1 | 20 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92700191

| Parameter | Units | 4228733 | | 4228734 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 92700191002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| Barium | mg/L | 0.051 | 0.1 | 0.1 | 0.16 | 0.16 | 106 | 105 | 75-125 | 1 | 20 | | |
| Beryllium | mg/L | ND | 0.1 | 0.1 | 0.087 | 0.086 | 87 | 86 | 75-125 | 0 | 20 | | |
| Boron | mg/L | 1.1 | 1 | 1 | 1.9 | 1.9 | 85 | 82 | 75-125 | 2 | 20 | | |
| Cadmium | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.098 | 100 | 98 | 75-125 | 2 | 20 | | |
| Chromium | mg/L | ND | 0.1 | 0.1 | 0.093 | 0.090 | 92 | 90 | 75-125 | 2 | 20 | | |
| Cobalt | mg/L | 0.028 | 0.1 | 0.1 | 0.12 | 0.12 | 93 | 92 | 75-125 | 1 | 20 | | |
| Lead | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.094 | 95 | 94 | 75-125 | 2 | 20 | | |
| Lithium | mg/L | 0.026J | 0.1 | 0.1 | 0.12 | 0.12 | 91 | 91 | 75-125 | 1 | 20 | | |
| Molybdenum | mg/L | 0.032 | 0.1 | 0.1 | 0.13 | 0.13 | 101 | 98 | 75-125 | 2 | 20 | | |
| Selenium | mg/L | ND | 0.1 | 0.1 | 0.11 | 0.10 | 108 | 105 | 75-125 | 3 | 20 | | |
| Thallium | mg/L | ND | 0.1 | 0.1 | 0.095 | 0.093 | 94 | 92 | 75-125 | 2 | 20 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92700191

| | |
|----------------------------|--|
| QC Batch: 816979 | Analysis Method: EPA 7470A |
| QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury |
| | Laboratory: Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92700191001, 92700191002, 92700191003, 92700191004

METHOD BLANK: 4228480 Matrix: Water
 Associated Lab Samples: 92700191001, 92700191002, 92700191003, 92700191004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00020 | 0.00013 | 12/05/23 09:44 | |

LABORATORY CONTROL SAMPLE: 4228481

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0024 | 95 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4228482 4228483

| Parameter | Units | 4228482 | | 4228483 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|
| | | 92700193001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | |
| Mercury | mg/L | ND | 0.0025 | 0.0025 | 0.0020 | 0.0020 | 78 | 78 | 75-125 | 1 | 20 |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92700191

| | | | |
|------------------|---------------|-----------------------|--|
| QC Batch: | 815475 | Analysis Method: | SM 2540C-2015 |
| QC Batch Method: | SM 2540C-2015 | Analysis Description: | 2540C Total Dissolved Solids |
| | | Laboratory: | Pace Analytical Services - Peachtree Corners, GA |

Associated Lab Samples: 92700191001, 92700191002, 92700191003, 92700191004

METHOD BLANK: 4221243 Matrix: Water
 Associated Lab Samples: 92700191001, 92700191002, 92700191003, 92700191004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|------|----------------|------------|
| Total Dissolved Solids | mg/L | ND | 25.0 | 25.0 | 11/28/23 12:18 | |

LABORATORY CONTROL SAMPLE: 4221244

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Dissolved Solids | mg/L | 400 | 414 | 104 | 80-120 | |

SAMPLE DUPLICATE: 4221245

| Parameter | Units | 92700191001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | 566 | 566 | 0 | 10 | |

SAMPLE DUPLICATE: 4221246

| Parameter | Units | 92700193007 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------------|-------|--------------------|------------|-----|---------|------------|
| Total Dissolved Solids | mg/L | ND | ND | | 10 | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92700191

QC Batch: 816336

Analysis Method: SM 2320B-2011

QC Batch Method: SM 2320B-2011

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92700191001, 92700191002

METHOD BLANK: 4225336

Matrix: Water

Associated Lab Samples: 92700191001, 92700191002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 11/30/23 15:34 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 11/30/23 15:34 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 11/30/23 15:34 | |

LABORATORY CONTROL SAMPLE: 4225337

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 51.8 | 104 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4225338

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 50.0 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4225339 4225340

| Parameter | Units | 4225339 | | 4225340 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|----------------|-----------------|-----------|------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 138 | 50 | 50 | 193 | 194 | 110 | 112 | 80-120 | 1 | 25 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4226089 4226090

| Parameter | Units | 4226089 | | 4226090 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|----------------|-----------------|-----------|------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 82.8 | 50 | 50 | 133 | 135 | 101 | 104 | 80-120 | 1 | 25 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92700191

QC Batch: 816475

Analysis Method: SM 2320B-2011

QC Batch Method: SM 2320B-2011

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92700191003, 92700191004

METHOD BLANK: 4226050

Matrix: Water

Associated Lab Samples: 92700191003, 92700191004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 11/30/23 19:45 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 11/30/23 19:45 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 11/30/23 19:45 | |

LABORATORY CONTROL SAMPLE: 4226051

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 51.6 | 103 | 80-120 | |

LABORATORY CONTROL SAMPLE: 4226052

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.0 | 104 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4226053 4226054

| Parameter | Units | 4226053 | | 4226054 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-----------|-----------------|-----------|-----------------|----------|-----------|--------------|--------|---------|------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | ND | 50 | 50 | 51.6 | 50.8 | 102 | 100 | 80-120 | 2 | 25 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4226709 4226710

| Parameter | Units | 4226709 | | 4226710 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-----------|-----------------|-----------|-----------------|----------|-----------|--------------|--------|---------|------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | ND | 50 | 50 | 51.9 | 49.9 | 103 | 99 | 80-120 | 4 | 25 |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92700191

QC Batch: 815251 Analysis Method: SM 4500-S2D-2011
 QC Batch Method: SM 4500-S2D-2011 Analysis Description: 4500S2D Sulfide Water
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92700191001, 92700191002, 92700191003, 92700191004

METHOD BLANK: 4220627 Matrix: Water
 Associated Lab Samples: 92700191001, 92700191002, 92700191003, 92700191004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide | mg/L | ND | 0.10 | 0.022 | 11/23/23 04:26 | |

LABORATORY CONTROL SAMPLE: 4220628

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide | mg/L | 0.5 | 0.48 | 97 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4220629 4220630

| Parameter | Units | 92700186001 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------------|-------------|-------|--------|--------|-------|--------|--------------|-----|---------|------|
| | | Result | Spike Conc. | Spike Conc. | Conc. | Result | Result | % Rec | % Rec | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.51 | 0.51 | 102 | 102 | 80-120 | 0 | 10 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4220631 4220632

| Parameter | Units | 92700191003 | | MSD | | MS | | MSD | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------------|-------------|-------|--------|--------|-------|--------|--------------|-----|---------|------|
| | | Result | Spike Conc. | Spike Conc. | Conc. | Result | Result | % Rec | % Rec | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.51 | 0.53 | 103 | 107 | 80-120 | 4 | 10 | | |

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QUALITY CONTROL DATA

Project: Hammond AP-1

Pace Project No.: 92700191

QC Batch: 815300 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92700191001, 92700191002, 92700191003, 92700191004

METHOD BLANK: 4220718 Matrix: Water
 Associated Lab Samples: 92700191001, 92700191002, 92700191003, 92700191004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 11/25/23 13:12 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 11/25/23 13:12 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 11/25/23 13:12 | |

LABORATORY CONTROL SAMPLE: 4220719

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 51.8 | 104 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.6 | 105 | 90-110 | |
| Sulfate | mg/L | 50 | 52.1 | 104 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4220720 4220721

| Parameter | Units | 92700200001 | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual | |
| Chloride | mg/L | 11.1 | 50 | 50 | 58.4 | 61.3 | 95 | 100 | 90-110 | 5 | 10 | | |
| Fluoride | mg/L | 0.10 | 2.5 | 2.5 | 2.6 | 2.7 | 99 | 102 | 90-110 | 4 | 10 | | |
| Sulfate | mg/L | 31.1 | 50 | 50 | 80.8 | 83.7 | 99 | 105 | 90-110 | 4 | 10 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4220722 4220723

| Parameter | Units | 92700191001 | | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-------|---------|------|
| | | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual | |
| Chloride | mg/L | 17.6 | 50 | 50 | 68.6 | 68.9 | 102 | 103 | 90-110 | 0 | 10 | | |
| Fluoride | mg/L | 0.36 | 2.5 | 2.5 | 2.8 | 2.9 | 99 | 100 | 90-110 | 0 | 10 | | |
| Sulfate | mg/L | 248 | 50 | 50 | 290 | 290 | 84 | 84 | 90-110 | 0 | 10 M1 | | |

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QUALIFIERS

Project: Hammond AP-1

Pace Project No.: 92700191

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1

Pace Project No.: 92700191

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|---------------|------------------------|----------|-------------------|------------------|
| 92700191001 | HAM-PT-07 | EPA 3010A | 816107 | EPA 6010D | 816179 |
| 92700191002 | HAM-PT-8 | EPA 3010A | 816107 | EPA 6010D | 816179 |
| 92700191003 | HAM-AP1-EB-01 | EPA 3010A | 816107 | EPA 6010D | 816179 |
| 92700191004 | HAM-AP1-FB-01 | EPA 3010A | 816107 | EPA 6010D | 816179 |
| 92700191001 | HAM-PT-07 | EPA 3005A | 817033 | EPA 6020B | 817133 |
| 92700191002 | HAM-PT-8 | EPA 3005A | 817033 | EPA 6020B | 817133 |
| 92700191003 | HAM-AP1-EB-01 | EPA 3005A | 817033 | EPA 6020B | 817133 |
| 92700191004 | HAM-AP1-FB-01 | EPA 3005A | 817033 | EPA 6020B | 817133 |
| 92700191001 | HAM-PT-07 | EPA 7470A | 816979 | EPA 7470A | 817223 |
| 92700191002 | HAM-PT-8 | EPA 7470A | 816979 | EPA 7470A | 817223 |
| 92700191003 | HAM-AP1-EB-01 | EPA 7470A | 816979 | EPA 7470A | 817223 |
| 92700191004 | HAM-AP1-FB-01 | EPA 7470A | 816979 | EPA 7470A | 817223 |
| 92700191001 | HAM-PT-07 | SM 2540C-2015 | 815475 | | |
| 92700191002 | HAM-PT-8 | SM 2540C-2015 | 815475 | | |
| 92700191003 | HAM-AP1-EB-01 | SM 2540C-2015 | 815475 | | |
| 92700191004 | HAM-AP1-FB-01 | SM 2540C-2015 | 815475 | | |
| 92700191001 | HAM-PT-07 | SM 2320B-2011 | 816336 | | |
| 92700191002 | HAM-PT-8 | SM 2320B-2011 | 816336 | | |
| 92700191003 | HAM-AP1-EB-01 | SM 2320B-2011 | 816475 | | |
| 92700191004 | HAM-AP1-FB-01 | SM 2320B-2011 | 816475 | | |
| 92700191001 | HAM-PT-07 | SM 4500-S2D-2011 | 815251 | | |
| 92700191002 | HAM-PT-8 | SM 4500-S2D-2011 | 815251 | | |
| 92700191003 | HAM-AP1-EB-01 | SM 4500-S2D-2011 | 815251 | | |
| 92700191004 | HAM-AP1-FB-01 | SM 4500-S2D-2011 | 815251 | | |
| 92700191001 | HAM-PT-07 | EPA 300.0 Rev 2.1 1993 | 815300 | | |
| 92700191002 | HAM-PT-8 | EPA 300.0 Rev 2.1 1993 | 815300 | | |
| 92700191003 | HAM-AP1-EB-01 | EPA 300.0 Rev 2.1 1993 | 815300 | | |
| 92700191004 | HAM-AP1-FB-01 | EPA 300.0 Rev 2.1 1993 | 815300 | | |

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Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022


Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt Client Name: Gr Power Project #: **WO#: 92700191**

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

WO#: 92700191



92700191

Date/Initials Person Examining Contents: 11-23 JCU

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: IR Gun ID: 330 Type of Ice: Wet Blue None

Cooler Temp: 3.3 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.3

USDA Regulated Soil (N/A, water sample) Yes No

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Biological Tissue Frozen? Yes No N/A

Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun

| | | | Comments/Discrepancy: |
|--|--|--|-----------------------|
| Chain of Custody Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 1. |
| Samples Arrived within Hold Time? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 2. |
| Short Hold Time Analysis (<72 hr.)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 3. |
| Rush Turn Around Time Requested? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | | 4. |
| Sufficient Volume? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 5. |
| Correct Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 6. |
| -Pace Containers Used? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | |
| Containers Intact? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 7. |
| Dissolved analysis: Samples Field Filtered? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | 8. |
| Sample Labels Match COC? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | 9. |
| -Includes Date/Time/ID/Analysis Matrix: <u>W</u> | | | |
| Headspace in VOA Vials (>5-6mm)? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | 10. |
| Trip Blank Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | 11. |
| Trip Blank Custody Seals Present? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | |

COMMENTS/SAMPLE DISCREPANCY _____ Field Data Required? Yes No

CLIENT NOTIFICATION/RESOLUTION _____ Lot ID of split containers: _____

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_ Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92700191

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project

PM: BV

Due Date: 12/08/23

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: 92- GP-HAM

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic Zn Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGJU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-40 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | KP7U-50 mL Plastic Unpreserved (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | V5GU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|--------------------------------------|--|---|---|---|---|--------------------------------------|--|--|--|
| 1 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

| Sample ID | Type of Preservative | pH upon receipt | Date preservation adjusted | Time preservation adjusted | Amount of Preservative added | Lot # |
|-----------|----------------------|-----------------|----------------------------|----------------------------|------------------------------|-------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document

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

| | | | | | |
|--|-----------------------------------|---|-----------------------------------|--|--|
| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
| Company: GA Power | Report To: SCS Contacts | Attention: Southern Co. | Company Name: Southern Co. | Address: | REGULATORY AGENCY |
| Address: Atlanta, GA | Copy To: Geosyntec Contacts | Address: | Address: | Address: | NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> |
| Email To: SCS Contacts | Purchase Order No.: GPC82474-0001 | Page Quote Reference: | Page Quote Reference: | Page Quote Reference: | UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER <input type="checkbox"/> |
| Phone: | Project Name: Hammond AP-1 | Page Project Manager: | Page Project Manager: | Page Project Manager: | Site Location: <input type="checkbox"/> |
| Requested Due Date/TAT: 5 day | Project Number: | Page Profile # 10839 | Requested Analysis Filtered (Y/N) | STATE: GA | |

| ITEM # | Section D Required Client Information | Valid Matrix Codes MATRIX CODE | COLLECTED | | SAMPLE TEMP AT COLLECTION | | Preservatives | | Analysis Test | | Residual Chlorine (Y/N) | Pace Project No./ Lab ID. | | | | | | | | | | | |
|--------|--|-----------------------------------|-----------|------------|---------------------------|------|-----------------|-------------|--------------------------------|------------------|-------------------------|---------------------------|-----|------|---|----------|-------|---|---|---|---|---|-----|
| | | | COMPOSITE | COMPOSITE | DATE | TIME | # OF CONTAINERS | Unpreserved | H ₂ SO ₄ | HNO ₃ | | | HCl | NaOH | Na ₂ S ₂ O ₃ | Methanol | Other | Y | N | Y | N | Y | N |
| 1 | HAM-PT-07 | WG | G | 11/21/2023 | 12:20 | 19 | 5 | 3 | 1 | 1 | 1 | X | X | X | X | N | N | N | N | N | N | N | 051 |
| 2 | HAM-PT-8 | WG | G | 11/21/2023 | 14:45 | 19 | 5 | 3 | 1 | 1 | 1 | X | X | X | X | N | N | N | N | N | N | N | 052 |
| 3 | HAM-API-EB-01 | WG | G | 11/21/2023 | 16:03 | 19 | 5 | 3 | 1 | 1 | 1 | X | X | X | X | N | N | N | N | N | N | N | 053 |
| 4 | HAM-API-FB-01 | WG | G | 11/21/2023 | 16:20 | 19 | 5 | 3 | 1 | 1 | 1 | X | X | X | X | N | N | N | N | N | N | N | 054 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | |
|--------------------------------|--|----------|------|---------------------------|--|----------|------|-----------------------------|--|
| REQUISITIONED BY / AFFILIATION | | DATE | TIME | ACCEPTED BY / AFFILIATION | | DATE | TIME | SAMPLE CONDITIONS | |
| Elisabeth Russell / Geosyntec | | 11/21/23 | 1425 | / SCS | | 11/23/23 | 1426 | Temp in °C | |
| Elisabeth Russell / Geosyntec | | 11/21/23 | 1520 | / Pace Analytical | | 11/23/23 | 1526 | Received on ice (Y/N) | |
| Elisabeth Russell / Geosyntec | | 11/21/23 | 1420 | / Pace Analytical | | 11/23/23 | 1426 | Custody Sealed Cooler (Y/N) | |
| Elisabeth Russell / Geosyntec | | 11/21/23 | 1420 | / Pace Analytical | | 11/23/23 | 1426 | Samples Intact (Y/N) | |

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07 15-Feb-2007

Pilot Study Field Sampling Forms

July 2023

Low-Flow Test Report:

Test Date / Time: 7/13/2023 3:37:26 PM

Project: GW6581

Operator Name: Alana Neely

| | | |
|---|---|--|
| Location Name: PT-07 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 38.6 ft Total Depth: 48.6 ft Initial Depth to Water: 25.3 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 43.6 ft Estimated Total Volume Pumped: 9 L Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 400 Serial Number: 884187 |
|---|---|--|

Test Notes:

Five bottles: Full App III and IV and Geochem

Weather Conditions:

73-91 deg F sunny

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 7/13/2023 3:37 PM | 00:00 | 6.80 pH | 28.25 °C | 1,056.0 µS/cm | 1.39 mg/L | 21.70 NTU | -108.6 mV | 25.30 ft | 200.00 ml/min |
| 7/13/2023 3:42 PM | 05:00 | 6.81 pH | 26.88 °C | 1,079.0 µS/cm | 0.68 mg/L | 21.30 NTU | -111.1 mV | 25.30 ft | 200.00 ml/min |
| 7/13/2023 3:47 PM | 10:00 | 6.82 pH | 26.52 °C | 1,072.1 µS/cm | 0.49 mg/L | 18.70 NTU | -127.0 mV | 25.30 ft | 200.00 ml/min |
| 7/13/2023 3:52 PM | 15:00 | 6.80 pH | 27.35 °C | 1,080.9 µS/cm | 0.48 mg/L | 16.00 NTU | -128.2 mV | 25.30 ft | 200.00 ml/min |
| 7/13/2023 3:57 PM | 20:00 | 6.77 pH | 27.44 °C | 979.74 µS/cm | 0.41 mg/L | 9.81 NTU | -113.5 mV | 25.30 ft | 200.00 ml/min |
| 7/13/2023 4:02 PM | 25:00 | 6.76 pH | 27.85 °C | 1,068.5 µS/cm | 0.35 mg/L | 9.08 NTU | -126.8 mV | 25.30 ft | 200.00 ml/min |
| 7/13/2023 4:07 PM | 30:00 | 6.76 pH | 27.68 °C | 1,061.0 µS/cm | 0.32 mg/L | 6.69 NTU | -111.9 mV | 25.30 ft | 200.00 ml/min |
| 7/13/2023 4:12 PM | 35:00 | 6.75 pH | 27.81 °C | 1,069.4 µS/cm | 0.29 mg/L | 6.01 NTU | -125.6 mV | 25.30 ft | 200.00 ml/min |
| 7/13/2023 4:17 PM | 40:00 | 6.76 pH | 27.26 °C | 1,064.5 µS/cm | 0.30 mg/L | 4.91 NTU | -111.0 mV | 25.30 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-07 | Grab. |

HAM-AP1-FD-01

Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/13/2023 5:11:34 PM

Project: GW6581

Operator Name: Alana Neely

| | | |
|---|---|--|
| Location Name: PT-08 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33 ft Total Depth: 43 ft Initial Depth to Water: 22.2 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 8 L Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.1 ft | Instrument Used: Aqua TROLL 400 Serial Number: 884187 |
|---|---|--|

Test Notes:

Five bottles: Full App III and IV and Geochem

Weather Conditions:

73-91 deg F sunny

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 7/13/2023 5:11 PM | 00:00 | 6.70 pH | 26.09 °C | 930.24 µS/cm | 0.88 mg/L | 20.20 NTU | -77.5 mV | 22.30 ft | 200.00 ml/min |
| 7/13/2023 5:16 PM | 05:00 | 6.68 pH | 24.72 °C | 960.77 µS/cm | 1.07 mg/L | 19.70 NTU | -81.4 mV | 22.30 ft | 200.00 ml/min |
| 7/13/2023 5:21 PM | 10:00 | 6.67 pH | 24.21 °C | 962.53 µS/cm | 0.13 mg/L | 24.30 NTU | -101.1 mV | 22.30 ft | 200.00 ml/min |
| 7/13/2023 5:26 PM | 15:00 | 6.66 pH | 24.14 °C | 972.51 µS/cm | 0.11 mg/L | 22.50 NTU | -107.9 mV | 22.30 ft | 200.00 ml/min |
| 7/13/2023 5:31 PM | 20:00 | 6.67 pH | 24.49 °C | 1,002.9 µS/cm | 0.10 mg/L | 8.59 NTU | -124.8 mV | 22.30 ft | 200.00 ml/min |
| 7/13/2023 5:36 PM | 25:00 | 6.68 pH | 24.12 °C | 999.67 µS/cm | 0.08 mg/L | 6.25 NTU | -115.1 mV | 22.30 ft | 200.00 ml/min |
| 7/13/2023 5:41 PM | 30:00 | 6.66 pH | 24.79 °C | 1,007.2 µS/cm | 0.09 mg/L | 7.11 NTU | -116.7 mV | 22.30 ft | 200.00 ml/min |
| 7/13/2023 5:46 PM | 35:00 | 6.66 pH | 24.53 °C | 1,007.1 µS/cm | 0.09 mg/L | 4.41 NTU | -124.9 mV | 22.30 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-08 | Grab. |

Low-Flow Test Report:

Test Date / Time: 7/13/2023 11:06:04 AM

Project: GW6581

Operator Name: Alana Neely

| | | |
|---|---|--|
| Location Name: PT-09 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18.5 ft Total Depth: 28.5 ft Initial Depth to Water: 14 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 23.5 ft Estimated Total Volume Pumped: 25.25 L Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.1 ft | Instrument Used: Aqua TROLL 400 Serial Number: 884187 |
|---|---|--|

Test Notes:

Five bottles: Full App III and IV and Geochem

Weather Conditions:

73-91 deg F sunny

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 7/13/2023 11:06 AM | 00:00 | 6.47 pH | 23.91 °C | 730.32 µS/cm | 0.18 mg/L | 3.55 NTU | 32.8 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:07 AM | 01:07 | 6.52 pH | 23.22 °C | 743.74 µS/cm | 0.15 mg/L | - | 11.4 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:12 AM | 06:07 | 6.56 pH | 22.23 °C | 753.03 µS/cm | 0.09 mg/L | 2.51 NTU | 6.0 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:17 AM | 11:07 | 6.57 pH | 22.47 °C | 754.10 µS/cm | 0.06 mg/L | 2.49 NTU | 3.4 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:22 AM | 16:07 | 6.57 pH | 22.10 °C | 764.27 µS/cm | 0.05 mg/L | 4.55 NTU | -9.5 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:27 AM | 21:07 | 6.58 pH | 22.12 °C | 768.51 µS/cm | 0.04 mg/L | 3.98 NTU | -12.2 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:32 AM | 26:08 | 6.42 pH | 22.27 °C | 729.76 µS/cm | 0.04 mg/L | 4.56 NTU | 4.1 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:37 AM | 31:08 | 6.57 pH | 22.45 °C | 763.33 µS/cm | 0.03 mg/L | 10.50 NTU | 3.6 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:42 AM | 36:08 | 6.56 pH | 22.99 °C | 768.69 µS/cm | 0.03 mg/L | 16.20 NTU | -19.3 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:47 AM | 41:08 | 6.45 pH | 23.29 °C | 723.65 µS/cm | 0.03 mg/L | 16.60 NTU | 6.2 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:52 AM | 46:08 | 6.54 pH | 23.37 °C | 768.73 µS/cm | 0.04 mg/L | 16.00 NTU | 14.3 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 11:57 AM | 51:08 | 6.56 pH | 23.35 °C | 767.51 µS/cm | 0.03 mg/L | 18.00 NTU | 12.2 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 12:02 PM | 56:08 | 6.56 pH | 23.59 °C | 770.87 µS/cm | 0.02 mg/L | 16.30 NTU | 3.5 mV | 14.10 ft | 250.00 ml/min |

| | | | | | | | | | |
|-----------------------|----------|---------|----------|--------------|-----------|-----------|---------|----------|---------------|
| 7/13/2023 12:07 PM | 01:01:08 | 6.56 pH | 23.26 °C | 771.12 µS/cm | 0.02 mg/L | 20.10 NTU | 5.6 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 12:12 PM | 01:06:08 | 6.56 pH | 23.45 °C | 773.37 µS/cm | 0.02 mg/L | 16.70 NTU | 7.1 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 12:17 PM | 01:11:08 | 6.56 pH | 23.36 °C | 775.77 µS/cm | 0.02 mg/L | 13.30 NTU | 9.8 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 12:22 PM | 01:16:08 | 6.57 pH | 24.10 °C | 773.97 µS/cm | 0.02 mg/L | 11.81 NTU | 14.8 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 12:26 PM | 01:20:29 | 6.57 pH | 23.62 °C | 771.90 µS/cm | 0.02 mg/L | 10.18 NTU | 15.0 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 12:31 PM | 01:25:29 | 6.57 pH | 23.66 °C | 776.24 µS/cm | 0.02 mg/L | 9.43 NTU | 18.2 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 12:36 PM | 01:30:29 | 6.57 pH | 24.30 °C | 779.12 µS/cm | 0.02 mg/L | 7.91 NTU | 16.2 mV | 14.10 ft | 250.00 ml/min |
| 7/13/2023 12:41 PM | 01:35:29 | 6.57 pH | 24.48 °C | 779.77 µS/cm | 0.02 mg/L | 4.95 NTU | 18.4 mV | 14.10 ft | 250.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-09 | Grab. |

Low-Flow Test Report:

Test Date / Time: 7/13/2023 1:16:15 PM

Project: GW6581

Operator Name: Alana Neely

| | | |
|---|--|--|
| Location Name: PT-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18 ft Total Depth: 28 ft Initial Depth to Water: 14 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 23 ft Estimated Total Volume Pumped: 12 L Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.3 ft | Instrument Used: Aqua TROLL 400 Serial Number: 884187 |
|---|--|--|

Test Notes:

Five bottles: Full App III and IV and Geochem

Weather Conditions:

73-91 deg F; sunny

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 7/13/2023 1:16 PM | 00:00 | 7.05 pH | 24.25 °C | 808.38 µS/cm | 0.31 mg/L | 11.60 NTU | -135.4 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 1:21 PM | 04:45 | 7.04 pH | 22.90 °C | 832.12 µS/cm | 0.49 mg/L | 20.60 NTU | -134.8 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 1:25 PM | 09:02 | 7.05 pH | 22.36 °C | 827.40 µS/cm | 0.12 mg/L | 18.10 NTU | -142.1 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 1:30 PM | 14:02 | 7.04 pH | 21.87 °C | 835.53 µS/cm | 0.10 mg/L | 13.20 NTU | -136.6 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 1:35 PM | 19:02 | 7.03 pH | 22.00 °C | 831.33 µS/cm | 0.08 mg/L | 12.47 NTU | -182.4 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 1:40 PM | 24:02 | 7.03 pH | 22.23 °C | 834.62 µS/cm | 0.06 mg/L | 10.64 NTU | -179.2 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 1:45 PM | 29:02 | 7.02 pH | 21.83 °C | 837.40 µS/cm | 0.05 mg/L | 9.54 NTU | -126.6 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 1:50 PM | 34:02 | 7.02 pH | 22.13 °C | 840.48 µS/cm | 0.05 mg/L | 8.72 NTU | -173.7 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 1:55 PM | 39:02 | 7.02 pH | 21.98 °C | 834.18 µS/cm | 0.04 mg/L | 7.59 NTU | -122.1 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 2:00 PM | 44:02 | 7.01 pH | 21.89 °C | 840.03 µS/cm | 0.04 mg/L | 6.56 NTU | -118.7 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 2:05 PM | 49:02 | 7.01 pH | 22.10 °C | 840.92 µS/cm | 0.03 mg/L | 5.64 NTU | -163.8 mV | 14.30 ft | 200.00 ml/min |
| 7/13/2023 2:10 PM | 54:02 | 7.01 pH | 21.95 °C | 842.15 µS/cm | 0.03 mg/L | 4.94 NTU | -161.5 mV | 14.30 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-10 | Grab. |

August 2023

Low-Flow Test Report:

Test Date / Time: 8/9/2023 5:24:44 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|---|--|--|
| Location Name: PT-07 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 38.6 ft Total Depth: 47.94 ft Initial Depth to Water: 25.05 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 43.8 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.05 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|---|--|--|

Test Notes:

Five bottles: Baseline Sampling and Major Ions

Weather Conditions:

Cloudy, 80 Degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/9/2023 5:24 PM | 00:00 | 6.69 pH | 22.70 °C | 979.72 µS/cm | 0.65 mg/L | 6.30 NTU | -88.9 mV | 25.10 ft | 200.00 ml/min |
| 8/9/2023 5:29 PM | 05:00 | 6.73 pH | 21.85 °C | 986.58 µS/cm | 0.43 mg/L | 4.87 NTU | -89.0 mV | 25.10 ft | 200.00 ml/min |
| 8/9/2023 5:34 PM | 10:00 | 6.76 pH | 21.55 °C | 992.34 µS/cm | 0.48 mg/L | 4.83 NTU | -89.8 mV | 25.10 ft | 200.00 ml/min |
| 8/9/2023 5:39 PM | 15:00 | 6.78 pH | 21.44 °C | 993.38 µS/cm | 0.33 mg/L | 5.08 NTU | -107.7 mV | 25.10 ft | 200.00 ml/min |
| 8/9/2023 5:44 PM | 20:00 | 6.79 pH | 21.42 °C | 1,008.3 µS/cm | 0.41 mg/L | 1.91 NTU | -90.6 mV | 25.10 ft | 200.00 ml/min |
| 8/9/2023 5:49 PM | 25:00 | 6.80 pH | 21.36 °C | 1,010.3 µS/cm | 0.30 mg/L | 0.80 NTU | -90.8 mV | 25.10 ft | 200.00 ml/min |
| 8/9/2023 5:54 PM | 30:00 | 6.82 pH | 21.19 °C | 1,012.4 µS/cm | 0.40 mg/L | 0.18 NTU | -90.9 mV | 25.10 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-07 | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/9/2023 10:03:54 AM

Project: GP-Plant Hammond

Operator Name: Elisabeth McDonnell

| | | |
|---|---|--|
| Location Name: PT-08 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 28.8 ft Total Depth: 42.0 ft Initial Depth to Water: 23.6 ft | Pump Type: Bladder pump Tubing Type: Peri Pump Intake From TOC: 37.3 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.04 m | Instrument Used: Aqua TROLL 400 Serial Number: 989630 |
|---|---|--|

Test Notes:

Five bottles: Baseline Sampling and Major Ions

Weather Conditions:

Cloudy, 80 Degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/9/2023 10:03 AM | 00:00 | 6.80 pH | 20.72 °C | 943.04 µS/cm | 2.15 mg/L | 15.50 NTU | -57.8 mV | 23.64 ft | 160.00 ml/min |
| 8/9/2023 10:08 AM | 05:00 | 6.81 pH | 20.71 °C | 915.43 µS/cm | 1.51 mg/L | 10.90 NTU | -60.5 mV | 23.63 ft | 160.00 ml/min |
| 8/9/2023 10:13 AM | 10:00 | 6.81 pH | 20.73 °C | 905.45 µS/cm | 1.62 mg/L | 7.91 NTU | -61.7 mV | 23.65 ft | 160.00 ml/min |
| 8/9/2023 10:18 AM | 15:00 | 6.82 pH | 20.59 °C | 908.95 µS/cm | 2.77 mg/L | 4.08 NTU | -82.5 mV | 23.64 ft | 160.00 ml/min |
| 8/9/2023 10:23 AM | 20:00 | 6.82 pH | 20.63 °C | 911.77 µS/cm | 1.38 mg/L | 4.45 NTU | -84.8 mV | 23.64 ft | 160.00 ml/min |
| 8/9/2023 10:28 AM | 25:00 | 6.82 pH | 20.57 °C | 907.31 µS/cm | 1.20 mg/L | 4.04 NTU | -64.7 mV | 23.63 ft | 160.00 ml/min |
| 8/9/2023 10:33 AM | 30:00 | 6.83 pH | 20.52 °C | 905.19 µS/cm | 0.97 mg/L | 2.96 NTU | -85.5 mV | 23.63 ft | 160.00 ml/min |
| 8/9/2023 10:38 AM | 35:00 | 6.83 pH | 20.58 °C | 911.05 µS/cm | 0.84 mg/L | 3.40 NTU | -64.5 mV | 23.63 ft | 160.00 ml/min |
| 8/9/2023 10:43 AM | 40:00 | 6.82 pH | 20.60 °C | 909.15 µS/cm | 0.94 mg/L | 3.98 NTU | -84.4 mV | 23.64 ft | 160.00 ml/min |

Samples

| Sample ID: | Description: |
|---------------|--------------|
| HAM-PT-08 | Grab. |
| HAM-AP1-FD-06 | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/9/2023 1:27:10 PM

Project: GP-Plant Hammond

Operator Name: Elisabeth McDonnell

| | | |
|---|--|--|
| Location Name: PT-09 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 28.8 ft Total Depth: 30.75 ft Initial Depth to Water: 14.99 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 26 ft Estimated Total Volume Pumped: 1.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 m | Instrument Used: Aqua TROLL 400 Serial Number: 989630 |
|---|--|--|

Test Notes:

Five bottles: Baseline Sampling and Major Ions

Weather Conditions:

Cloudy, 80 Degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/9/2023 1:27 PM | 00:00 | 6.76 pH | 21.93 °C | 745.27 µS/cm | 4.47 mg/L | 2.02 NTU | 56.2 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 1:32 PM | 05:00 | 6.81 pH | 21.68 °C | 771.52 µS/cm | 3.35 mg/L | 1.11 NTU | 52.3 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 1:37 PM | 10:00 | 6.85 pH | 21.44 °C | 786.50 µS/cm | 2.58 mg/L | 1.46 NTU | 28.7 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 1:42 PM | 15:00 | 6.86 pH | 21.30 °C | 797.33 µS/cm | 6.17 mg/L | 2.12 NTU | 16.0 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 1:47 PM | 20:00 | 6.87 pH | 21.28 °C | 797.79 µS/cm | 2.58 mg/L | 2.86 NTU | 19.9 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 1:52 PM | 25:00 | 6.88 pH | 21.32 °C | 806.94 µS/cm | 3.88 mg/L | 3.70 NTU | 15.9 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 1:57 PM | 30:00 | 6.88 pH | 21.25 °C | 797.98 µS/cm | 0.84 mg/L | 3.86 NTU | 11.7 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 2:02 PM | 35:00 | 6.88 pH | 21.20 °C | 794.19 µS/cm | 0.80 mg/L | 3.31 NTU | 10.9 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 2:07 PM | 40:00 | 6.88 pH | 21.03 °C | 791.25 µS/cm | 1.44 mg/L | 2.06 NTU | 10.4 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 2:12 PM | 45:00 | 6.89 pH | 20.96 °C | 770.10 µS/cm | 0.72 mg/L | 1.72 NTU | 9.1 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 2:17 PM | 50:00 | 6.88 pH | 20.97 °C | 792.63 µS/cm | 0.55 mg/L | 0.98 NTU | 9.9 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 2:22 PM | 55:00 | 6.89 pH | 21.06 °C | 791.96 µS/cm | 1.03 mg/L | 1.51 NTU | 1.0 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 2:27 PM | 01:00:00 | 6.89 pH | 21.29 °C | 791.26 µS/cm | 0.63 mg/L | 0.62 NTU | 12.2 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 2:32 PM | 01:05:00 | 6.89 pH | 21.71 °C | 825.29 µS/cm | 0.44 mg/L | 0.44 NTU | 14.1 mV | 14.99 ft | 200.00 ml/min |
| 8/9/2023 2:37 PM | 01:10:00 | 6.89 pH | 21.59 °C | 826.86 µS/cm | 0.58 mg/L | 0.56 NTU | 14.4 mV | 14.99 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-09 | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/9/2023 12:22:52 PM

Project: GP-Plant Hammond

Operator Name: Elisabeth McDonnell

| | | |
|---|---|--|
| Location Name: PT-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 20 ft Total Depth: 31.75 ft Initial Depth to Water: 15.05 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 25 ft Estimated Total Volume Pumped: 5.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.13 m | Instrument Used: Aqua TROLL 400 Serial Number: 989630 |
|---|---|--|

Test Notes:

Five bottles: Baseline Sampling and Major Ions

Weather Conditions:

Cloudy, 80 Degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/9/2023 12:22 PM | 00:00 | 7.14 pH | 22.18 °C | 811.17 µS/cm | 1.15 mg/L | 24.10 NTU | -75.4 mV | 15.18 ft | 160.00 ml/min |
| 8/9/2023 12:27 PM | 05:00 | 7.15 pH | 22.04 °C | 798.04 µS/cm | 0.38 mg/L | 16.60 NTU | -75.5 mV | 15.18 ft | 160.00 ml/min |
| 8/9/2023 12:32 PM | 10:00 | 7.16 pH | 21.96 °C | 800.28 µS/cm | 0.37 mg/L | 11.80 NTU | -99.1 mV | 15.18 ft | 160.00 ml/min |
| 8/9/2023 12:37 PM | 15:00 | 7.16 pH | 22.00 °C | 793.73 µS/cm | 0.33 mg/L | 4.09 NTU | -78.0 mV | 15.18 ft | 160.00 ml/min |
| 8/9/2023 12:42 PM | 20:00 | 7.17 pH | 21.46 °C | 790.02 µS/cm | 0.24 mg/L | 4.11 NTU | -101.9 mV | 15.18 ft | 160.00 ml/min |
| 8/9/2023 12:47 PM | 25:00 | 7.18 pH | 21.86 °C | 782.36 µS/cm | 0.16 mg/L | 2.36 NTU | -81.4 mV | 15.18 ft | 160.00 ml/min |
| 8/9/2023 12:52 PM | 30:00 | 7.18 pH | 21.79 °C | 770.46 µS/cm | 0.12 mg/L | 4.55 NTU | -80.9 mV | 15.18 ft | 160.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-10 | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/9/2023 3:28:27 PM

Project: GP-Plant Hammond

Operator Name: Elisabeth McDonnell

| | | |
|--|---|--|
| Location Name: MW-53 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 26.6 ft Total Depth: 36.35 ft Initial Depth to Water: 16.0 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 31.6 ft Estimated Total Volume Pumped: 15 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.08 ft | Instrument Used: Aqua TROLL 400 Serial Number: 989630 |
|--|---|--|

Test Notes:

One bottle: Boron and Molybdenum

Weather Conditions:

Sunny, 72 Degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/9/2023 3:28 PM | 00:00 | 6.58 pH | 21.50 °C | 811.88 µS/cm | 1.19 mg/L | 4.93 NTU | 46.9 mV | 16.07 ft | 200.00 ml/min |
| 8/9/2023 3:33 PM | 05:00 | 6.63 pH | 21.32 °C | 834.15 µS/cm | 0.84 mg/L | 3.37 NTU | 46.6 mV | 16.08 ft | 200.00 ml/min |
| 8/9/2023 3:38 PM | 10:00 | 6.63 pH | 21.42 °C | 836.69 µS/cm | 1.03 mg/L | 1.67 NTU | 47.1 mV | 16.06 ft | 200.00 ml/min |
| 8/9/2023 3:43 PM | 15:00 | 6.64 pH | 21.24 °C | 839.10 µS/cm | 0.93 mg/L | 1.01 NTU | 58.2 mV | 16.07 ft | 200.00 ml/min |
| 8/9/2023 3:48 PM | 20:00 | 6.63 pH | 21.28 °C | 836.21 µS/cm | 0.84 mg/L | 0.45 NTU | 47.3 mV | 16.07 ft | 200.00 ml/min |
| 8/9/2023 3:53 PM | 25:00 | 6.63 pH | 20.90 °C | 837.24 µS/cm | 0.54 mg/L | 0.78 NTU | 59.3 mV | 16.07 ft | 200.00 ml/min |
| 8/9/2023 3:58 PM | 30:00 | 6.63 pH | 21.19 °C | 835.68 µS/cm | 1.45 mg/L | 0.29 NTU | 60.3 mV | 16.08 ft | 200.00 ml/min |
| 8/9/2023 4:03 PM | 35:00 | 6.64 pH | 21.06 °C | 833.61 µS/cm | 0.78 mg/L | 0.04 NTU | 60.1 mV | 16.08 ft | 200.00 ml/min |
| 8/9/2023 4:08 PM | 40:00 | 6.63 pH | 21.03 °C | 828.43 µS/cm | 1.29 mg/L | 0.00 NTU | 60.7 mV | 16.08 ft | 200.00 ml/min |
| 8/9/2023 4:13 PM | 45:00 | 6.63 pH | 20.94 °C | 827.95 µS/cm | 0.65 mg/L | 0.04 NTU | 60.6 mV | 16.08 ft | 200.00 ml/min |
| 8/9/2023 4:18 PM | 50:00 | 6.63 pH | 20.17 °C | 756.61 µS/cm | 2.48 mg/L | 0.00 NTU | 49.0 mV | 16.07 ft | 200.00 ml/min |
| 8/9/2023 4:23 PM | 55:00 | 6.65 pH | 19.90 °C | 754.42 µS/cm | 1.81 mg/L | 0.00 NTU | 48.3 mV | 16.08 ft | 200.00 ml/min |
| 8/9/2023 4:28 PM | 01:00:00 | 6.63 pH | 19.72 °C | 846.76 µS/cm | 0.35 mg/L | 0.00 NTU | 59.5 mV | 16.08 ft | 200.00 ml/min |
| 8/9/2023 4:33 PM | 01:05:00 | 6.63 pH | 19.64 °C | 847.37 µS/cm | 0.29 mg/L | 0.01 NTU | 47.3 mV | 16.07 ft | 200.00 ml/min |
| 8/9/2023 4:38 PM | 01:10:00 | 6.63 pH | 19.60 °C | 848.27 µS/cm | 0.24 mg/L | | 57.3 mV | 16.08 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-MW-53 | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/9/2023 3:26:03 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|---|--|--|
| Location Name: MW-54 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 28.3 ft Total Depth: 38.30 ft Initial Depth to Water: 24.15 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 33.3 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.1ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|---|--|--|

Test Notes:

One bottle: Boron and Arsenic

Weather Conditions:

Sunny, 85 Degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/9/2023 3:26 PM | 00:00 | 5.01 pH | 26.69 °C | 329.38 µS/cm | 1.73 mg/L | 5.12 NTU | 171.8 mV | 24.25 ft | 100.00 ml/min |
| 8/9/2023 3:31 PM | 05:00 | 4.98 pH | 25.95 °C | 330.64 µS/cm | 1.70 mg/L | 6.87 NTU | 149.1 mV | 24.25 ft | 100.00 ml/min |
| 8/9/2023 3:36 PM | 10:00 | 4.99 pH | 25.33 °C | 330.08 µS/cm | 1.65 mg/L | 6.29 NTU | 185.3 mV | 24.25 ft | 100.00 ml/min |
| 8/9/2023 3:41 PM | 15:00 | 5.02 pH | 24.97 °C | 332.29 µS/cm | 1.57 mg/L | 5.76 NTU | 180.6 mV | 24.25 ft | 100.00 ml/min |
| 8/9/2023 3:46 PM | 20:00 | 5.03 pH | 24.61 °C | 330.02 µS/cm | 1.53 mg/L | 6.69 NTU | 176.5 mV | 24.25 ft | 100.00 ml/min |
| 8/9/2023 3:51 PM | 25:00 | 5.10 pH | 23.90 °C | 331.08 µS/cm | 1.45 mg/L | 4.98 NTU | 172.1 mV | 24.25 ft | 100.00 ml/min |
| 8/9/2023 3:56 PM | 30:00 | 5.18 pH | 23.88 °C | 334.85 µS/cm | 1.41 mg/L | 4.23 NTU | 132.1 mV | 24.25 ft | 100.00 ml/min |
| 8/9/2023 4:01 PM | 35:00 | 5.31 pH | 23.56 °C | 342.94 µS/cm | 1.32 mg/L | 4.00 NTU | 158.5 mV | 24.25 ft | 100.00 ml/min |
| 8/9/2023 4:06 PM | 40:00 | 5.50 pH | 23.74 °C | 361.26 µS/cm | 1.20 mg/L | 3.98 NTU | 152.1 mV | 24.25 ft | 100.00 ml/min |
| 8/9/2023 4:11 PM | 45:00 | 5.67 pH | 23.43 °C | 382.99 µS/cm | 1.07 mg/L | 3.50 NTU | 112.1 mV | 24.25 ft | 100.00 ml/min |
| 8/9/2023 4:16 PM | 50:00 | 5.80 pH | 23.60 °C | 406.33 µS/cm | 0.95 mg/L | 3.57 NTU | 136.0 mV | 24.25 ft | 100.00 ml/min |
| 8/9/2023 4:21 PM | 55:00 | 5.89 pH | 23.28 °C | 422.58 µS/cm | 0.86 mg/L | 1.33 NTU | 132.8 mV | 24.25 ft | 100.00 ml/min |
| 8/9/2023 4:26 PM | 01:00:00 | 5.98 pH | 23.21 °C | 439.54 µS/cm | 0.78 mg/L | 1.25 NTU | 99.6 mV | 24.25 ft | 100.00 ml/min |

| | | | | | | | | | |
|------------------|----------|---------|----------|--------------|-----------|----------|----------|----------|---------------|
| 8/9/2023 4:31 PM | 01:05:00 | 6.04 pH | 23.07 °C | 456.26 µS/cm | 0.73 mg/L | 1.31 NTU | 124.2 mV | 24.25 ft | 100.00 ml/min |
| 8/9/2023 4:36 PM | 01:10:00 | 6.10 pH | 23.02 °C | 466.92 µS/cm | 0.68 mg/L | 1.12 NTU | 95.3 mV | 24.25 ft | 100.00 ml/min |
| 8/9/2023 4:41 PM | 01:15:00 | 6.15 pH | 22.89 °C | 476.56 µS/cm | 0.63 mg/L | 0.86 NTU | 118.0 mV | 24.25 ft | 100.00 ml/min |
| 8/9/2023 4:46 PM | 01:20:00 | 6.18 pH | 22.86 °C | 488.16 µS/cm | 0.60 mg/L | 0.36 NTU | 117.5 mV | 24.25 ft | 100.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-MW-54 | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/30/2023 10:28:30 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|---|--|--|
| Location Name: PT-09 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 20.75 ft Total Depth: 30.75 ft Initial Depth to Water: 15.2 ft | Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 26 ft Estimated Total Volume Pumped: 20 L Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.05 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883561 |
|---|--|--|

Test Notes:

One bottle, Molybdenum.

Weather Conditions:

Cloudy, 75 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|------------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/30/2023 10:28 AM | 00:00 | 7.10 pH | 21.38 °C | 793.73 µS/cm | 0.29 mg/L | | -17.9 mV | 15.43 ft | 200.00 ml/min |
| 8/30/2023 10:33 AM | 05:00 | 7.37 pH | 20.77 °C | 791.57 µS/cm | 0.47 mg/L | 106.10 NTU | -57.9 mV | 15.43 ft | 200.00 ml/min |
| 8/30/2023 10:38 AM | 10:00 | 7.70 pH | 20.66 °C | 801.96 µS/cm | 0.81 mg/L | 100.50 NTU | -58.3 mV | 15.25 ft | 200.00 ml/min |
| 8/30/2023 10:43 AM | 15:00 | 7.95 pH | 20.66 °C | 805.08 µS/cm | 0.69 mg/L | 103.10 NTU | -86.4 mV | 15.25 ft | 200.00 ml/min |
| 8/30/2023 10:48 AM | 20:00 | 8.20 pH | 20.57 °C | 828.44 µS/cm | 0.24 mg/L | 50.90 NTU | -163.5 mV | 15.25 ft | 200.00 ml/min |
| 8/30/2023 10:53 AM | 25:00 | 8.42 pH | 20.50 °C | 827.43 µS/cm | 0.15 mg/L | 41.70 NTU | -116.6 mV | 15.25 ft | 200.00 ml/min |
| 8/30/2023 10:58 AM | 30:00 | 8.57 pH | 20.45 °C | 827.24 µS/cm | 0.13 mg/L | 36.30 NTU | -112.2 mV | 15.25 ft | 200.00 ml/min |
| 8/30/2023 11:03 AM | 35:00 | 8.67 pH | 20.48 °C | 827.07 µS/cm | 0.13 mg/L | 29.60 NTU | -123.4 mV | 15.25 ft | 200.00 ml/min |
| 8/30/2023 11:08 AM | 40:00 | 8.74 pH | 20.47 °C | 818.91 µS/cm | 0.28 mg/L | 25.70 NTU | -112.5 mV | 15.25 ft | 200.00 ml/min |
| 8/30/2023 11:13 AM | 45:00 | 8.80 pH | 20.51 °C | 828.84 µS/cm | 0.43 mg/L | 23.10 NTU | -129.4 mV | 15.25 ft | 200.00 ml/min |
| 8/30/2023 11:18 AM | 50:00 | 8.83 pH | 20.52 °C | 828.02 µS/cm | 0.45 mg/L | 20.20 NTU | -128.4 mV | 15.25 ft | 200.00 ml/min |
| 8/30/2023 11:23 AM | 55:00 | 8.85 pH | 20.59 °C | 830.92 µS/cm | 0.40 mg/L | 18.90 NTU | -125.5 mV | 15.25 ft | 200.00 ml/min |
| 8/30/2023 11:28 AM | 01:00:00 | 8.87 pH | 20.62 °C | 830.18 µS/cm | 0.36 mg/L | 14.60 NTU | -89.4 mV | 15.25 ft | 200.00 ml/min |

| | | | | | | | | | |
|-----------------------|----------|---------|----------|--------------|-----------|-----------|-----------|----------|---------------|
| 8/30/2023 11:33 AM | 01:05:00 | 8.88 pH | 20.66 °C | 828.01 µS/cm | 0.33 mg/L | 12.10 NTU | -121.5 mV | 15.25 ft | 200.00 ml/min |
| 8/30/2023 11:38 AM | 01:10:00 | 8.89 pH | 20.61 °C | 832.73 µS/cm | 0.55 mg/L | 11.70 NTU | -185.0 mV | 15.25 ft | 200.00 ml/min |
| 8/30/2023 11:43 AM | 01:15:00 | 8.90 pH | 20.70 °C | 832.29 µS/cm | 0.52 mg/L | 9.95 NTU | -119.7 mV | 15.25 ft | 200.00 ml/min |
| 8/30/2023 11:48 AM | 01:20:00 | 8.92 pH | 20.80 °C | 824.85 µS/cm | 0.47 mg/L | 9.24 NTU | -180.2 mV | 15.25 ft | 200.00 ml/min |
| 8/30/2023 11:53 AM | 01:25:00 | 8.92 pH | 20.68 °C | 825.93 µS/cm | 0.39 mg/L | 9.00 NTU | -108.5 mV | 15.25 ft | 200.00 ml/min |
| 8/30/2023 11:58 AM | 01:30:00 | 8.94 pH | 20.68 °C | 831.57 µS/cm | 0.29 mg/L | 6.83 NTU | -110.8 mV | 15.25 ft | 200.00 ml/min |
| 8/30/2023 12:03 PM | 01:35:00 | 8.94 pH | 21.02 °C | 829.44 µS/cm | 0.23 mg/L | 4.27 NTU | -111.8 mV | 15.25 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-09 | Grab |

Low-Flow Test Report:

Test Date / Time: 8/30/2023 12:34:29 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|--|--|--|
| Location Name: PT-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 21.75 ft Total Depth: 31.75 ft Initial Depth to Water: 15.35 ft | Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 26.75 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.15 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883561 |
|--|--|--|

Test Notes:

One bottle, Molybdenum.

Weather Conditions:

Cloudy, 78 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/30/2023 12:34 PM | 00:00 | 9.06 pH | 23.12 °C | 792.49 µS/cm | 0.38 mg/L | 42.20 NTU | -184.4 mV | 15.50 ft | 200.00 ml/min |
| 8/30/2023 12:39 PM | 05:00 | 9.10 pH | 21.49 °C | 808.79 µS/cm | 0.23 mg/L | 17.20 NTU | -258.0 mV | 15.50 ft | 200.00 ml/min |
| 8/30/2023 12:44 PM | 10:00 | 9.11 pH | 21.16 °C | 808.42 µS/cm | 0.21 mg/L | 12.70 NTU | -258.0 mV | 15.50 ft | 200.00 ml/min |
| 8/30/2023 12:49 PM | 15:00 | 9.14 pH | 21.11 °C | 813.95 µS/cm | 0.19 mg/L | 10.60 NTU | -184.9 mV | 15.50 ft | 200.00 ml/min |
| 8/30/2023 12:54 PM | 20:00 | 9.17 pH | 21.02 °C | 812.82 µS/cm | 0.24 mg/L | 5.31 NTU | -241.9 mV | 15.50 ft | 200.00 ml/min |
| 8/30/2023 12:59 PM | 25:00 | 9.21 pH | 20.92 °C | 812.87 µS/cm | 0.32 mg/L | 4.03 NTU | -249.2 mV | 15.50 ft | 200.00 ml/min |
| 8/30/2023 1:04 PM | 30:00 | 9.22 pH | 20.98 °C | 814.73 µS/cm | 0.27 mg/L | 4.00 NTU | -251.4 mV | 15.50 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-10 | Grab |

October 2023

Low-Flow Test Report:

Test Date / Time: 10/3/2023 5:45:55 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|--|--|--|
| Location Name: PT-09 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 20.75 ft Total Depth: 30.75 ft Initial Depth to Water: 15.62 ft | Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 25.75 ft Estimated Total Volume Pumped: 23 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.05 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|--|--|--|

Test Notes:

Two bottles: Metals and Sulfate.

Weather Conditions:

Clear, 80 degrees F.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|------------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 10/3/2023 5:45 PM | 00:00 | 7.39 pH | 26.19 °C | 289.91 µS/cm | 3.88 mg/L | 718.00 NTU | 49.3 mV | 15.67 ft | 200.00 ml/min |
| 10/3/2023 5:50 PM | 05:00 | 7.25 pH | 22.78 °C | 298.26 µS/cm | 3.95 mg/L | 821.00 NTU | 52.3 mV | 15.67 ft | 200.00 ml/min |
| 10/3/2023 5:55 PM | 10:00 | 7.20 pH | 22.47 °C | 305.88 µS/cm | 3.56 mg/L | 701.00 NTU | 53.2 mV | 15.67 ft | 200.00 ml/min |
| 10/3/2023 6:00 PM | 15:00 | 7.19 pH | 22.42 °C | 303.80 µS/cm | 3.50 mg/L | 533.00 NTU | 62.6 mV | 15.67 ft | 200.00 ml/min |
| 10/3/2023 6:05 PM | 20:00 | 7.17 pH | 22.38 °C | 306.38 µS/cm | 3.38 mg/L | 392.00 NTU | 59.2 mV | 15.67 ft | 200.00 ml/min |
| 10/3/2023 6:10 PM | 25:00 | 7.17 pH | 22.35 °C | 305.16 µS/cm | 3.32 mg/L | 213.00 NTU | 58.1 mV | 15.67 ft | 200.00 ml/min |
| 10/3/2023 6:15 PM | 30:00 | 7.17 pH | 22.40 °C | 303.00 µS/cm | 3.32 mg/L | 159.90 NTU | 59.0 mV | 15.67 ft | 200.00 ml/min |
| 10/3/2023 6:20 PM | 35:00 | 7.17 pH | 22.31 °C | 302.87 µS/cm | 3.35 mg/L | 105.00 NTU | 50.4 mV | 15.67 ft | 200.00 ml/min |
| 10/3/2023 6:25 PM | 40:00 | 7.17 pH | 22.28 °C | 302.31 µS/cm | 3.35 mg/L | 86.60 NTU | 59.9 mV | 15.67 ft | 200.00 ml/min |
| 10/3/2023 6:30 PM | 45:00 | 7.17 pH | 22.24 °C | 302.35 µS/cm | 3.36 mg/L | 67.10 NTU | 60.5 mV | 15.67 ft | 200.00 ml/min |
| 10/3/2023 6:35 PM | 50:00 | 7.17 pH | 22.15 °C | 303.05 µS/cm | 3.40 mg/L | 49.50 NTU | 60.4 mV | 15.67 ft | 200.00 ml/min |
| 10/3/2023 6:40 PM | 55:00 | 7.17 pH | 22.11 °C | 302.74 µS/cm | 3.43 mg/L | 42.50 NTU | 50.5 mV | 15.67 ft | 200.00 ml/min |
| 10/3/2023 6:45 PM | 01:00:00 | 7.16 pH | 21.86 °C | 303.94 µS/cm | 3.46 mg/L | 32.90 NTU | 59.2 mV | 15.67 ft | 200.00 ml/min |

| | | | | | | | | | |
|----------------------|----------|---------|----------|--------------|-----------|-----------|---------|----------|---------------|
| 10/3/2023 6:50 PM | 01:05:00 | 7.16 pH | 21.79 °C | 304.33 µS/cm | 3.48 mg/L | 29.00 NTU | 49.2 mV | 15.67 ft | 200.00 ml/min |
| 10/3/2023 6:55 PM | 01:10:00 | 7.17 pH | 21.64 °C | 306.27 µS/cm | 3.50 mg/L | 24.70 NTU | 56.1 mV | 15.67 ft | 200.00 ml/min |
| 10/3/2023 7:00 PM | 01:15:00 | 7.17 pH | 21.52 °C | 307.84 µS/cm | 3.52 mg/L | 18.20 NTU | 55.6 mV | 15.67 ft | 200.00 ml/min |
| 10/3/2023 7:05 PM | 01:20:00 | 7.16 pH | 21.43 °C | 308.59 µS/cm | 3.54 mg/L | 16.50 NTU | 54.7 mV | 15.67 ft | 200.00 ml/min |
| 10/3/2023 7:10 PM | 01:25:00 | 7.17 pH | 21.42 °C | 310.99 µS/cm | 3.56 mg/L | 14.40 NTU | 53.6 mV | 15.67 ft | 200.00 ml/min |
| 10/3/2023 7:15 PM | 01:30:00 | 7.17 pH | 21.35 °C | 313.41 µS/cm | 3.56 mg/L | 12.20 NTU | 52.9 mV | 15.67 ft | 200.00 ml/min |
| 10/3/2023 7:20 PM | 01:35:00 | 7.17 pH | 21.23 °C | 313.61 µS/cm | 3.57 mg/L | 12.30 NTU | 45.4 mV | 15.67 ft | 200.00 ml/min |
| 10/3/2023 7:25 PM | 01:40:00 | 7.17 pH | 21.15 °C | 315.90 µS/cm | 3.59 mg/L | 11.00 NTU | 52.0 mV | 15.67 ft | 200.00 ml/min |
| 10/3/2023 7:30 PM | 01:45:00 | 7.17 pH | 21.06 °C | 317.09 µS/cm | 3.59 mg/L | 9.44 NTU | 51.8 mV | 15.67 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-09 | Grab. |



GROUNDWATER SAMPLING LOG SHEET

| | | |
|---|--|---|
| Client: <u>SCS</u> | Project No.: <u>GW6581</u> | Sampling Date: <u>10/03/2023</u> |
| Site: <u>Plant Hammond</u> | Location: <u>Plant Hammond</u> | Sampler's Name: <u>M. Sadasivan</u> |
| Well ID: <u>PT-10</u> | Pump Type/Model: <u>Pehi/Alaris</u> | Sample Collection Time: <u>1133</u> |
| Total Depth (ft): <u>27</u> | Tubing Material: <u>Polyethylene</u> | Sample Purge Rate (mL/min): <u>200</u> |
| Depth to Water (ft): <u>15.54</u> | Pump Intake/Tubing Depth (ft): <u>23</u> | Sample ID: <u>HAM-PT-10</u> |
| Well Diameter (in): <u>2</u> | Start/Stop Purge Time: <u>0945/1135</u> | Laboratory Analyses: <u>Fe, Mo, SO4</u> |
| Well Volume (gal) = 0.041d ² h: <u>1.879</u> | Purge Rate (mL/min): <u>200</u> | |
| Well Volume (L) = gal * 3.785: <u>7.11</u> | Total Purge Volume (L): <u>20</u> | |

d = well diameter (inches); h = length of water column (feet)

| | | |
|--|--|----------------------------|
| Well Type: Flush <input checked="" type="checkbox"/> <u>Stick Up</u> | Purge Method: <u>Low-Flow</u> Well Volume Other: _____ | QA/QC Collected? <u>No</u> |
| Well Lock: <input checked="" type="checkbox"/> Yes No | Sampling Method: <u>Pump Discharge</u> Other: _____ | QA/QC ID: <u>N/A</u> |
| Well Cap Condition: <input checked="" type="checkbox"/> Good Replace | All sample containers requiring chemical preservation properly preserved prior to demob from well? <input checked="" type="checkbox"/> Yes No | |
| Well Tag Present: <input checked="" type="checkbox"/> Yes No | | |

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|------|---------|---------------------|----------|-----------|------------|------------------|---------------|---------------------|-------------------|---|
| 0948 | | | | | | | | | | start purge |
| 0953 | 6.95 | 891.02 | -0.1 | 0.66 | 16.55 | - | 15.59 | 200 | 1 | |
| 0958 | 7.01 | 897.36 | -9.6 | 1.52 | 16.41 | - | 15.60 | 200 | 2 | |
| 1003 | 7.04 | 897.88 | -14.6 | 1.17 | 16.44 | - | 15.60 | 200 | 3 | |
| 1008 | 7.04 | 896.52 | -22.3 | 0.36 | 16.28 | - | 15.61 | 200 | 4 | |
| 1013 | 7.05 | 903.87 | -26.8 | 0.84 | 16.37 | - | 15.61 | 200 | 5 | |
| 1018 | 7.06 | 897.58 | -27.4 | 0.69 | 16.66 | - | 15.61 | 200 | 6 | |
| 1023 | 7.07 | 892.84 | -25.8 | 1.67 | 16.68 | - | 15.62 | 200 | 7 | |
| 1028 | 7.07 | 905.39 | -23.4 | 1.13 | 16.56 | - | 15.62 | 200 | 8 | |
| 1033 | 7.07 | 906.06 | -22.8 | 0.28 | 16.68 | - | 15.61 | 200 | 9 | |
| 1038 | 7.07 | 904.34 | -18.8 | 1.88 | 16.75 | - | 15.62 | 200 | 10 | |
| 1043 | 7.07 | 899.04 | -24.8 | 1.21 | 16.96 | - | 15.62 | 200 | 11 | |
| 1048 | 7.08 | 888.76 | -14.5 | 0.62 | 16.97 | - | 15.62 | 200 | 12 | |
| 1053 | 7.07 | 902.95 | -20.5 | 0.80 | 16.98 | - | 15.61 | 200 | 13 | |
| 1058 | 7.08 | 905.31 | -21.8 | 0.51 | 17.08 | - | 15.62 | 200 | 14 | |
| 1103 | 7.09 | 898.26 | -22.6 | 2.74 | 17.18 | - | 15.62 | 200 | 15 | |
| 1108 | 7.08 | 895.97 | -22.9 | 1.50 | 17.23 | - | 15.63 | 200 | 16 | |
| 1113 | 7.08 | 890.67 | -22.1 | 0.35 | 17.24 | - | 15.63 | 200 | 17 | |
| 1118 | 7.08 | 892.50 | -26.7 | 0.72 | 17.21 | - | 15.63 | 200 | 18 | |

| | | | | | | |
|-----------------------------|------------|--------|--|---------------------|----------|-------------------|
| Stabilizing Criteria | +/- 0.1 SU | +/- 5% | 0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater) | < 10 NTUs or +/- 5% | < 0.3 ft | > 100 mL < 250 mL |
|-----------------------------|------------|--------|--|---------------------|----------|-------------------|

GROUNDWATER SAMPLING LOG SHEET

| | | |
|---|--|---|
| Client: <u>SCS</u> | Project No.: <u>GW 6581</u> | Sampling Date: <u>10/03/2023</u> |
| Site: <u>Plant Hammond</u> | Location: <u>Plant Hammond</u> | Sampler's Name: <u>M. Sadhasivan</u> |
| Well ID: <u>PT-10</u> | Pump Type/Model: <u>Peri/Aleois</u> | Sample Collection Time: <u>1133</u> |
| Total Depth (ft): <u>27</u> | Tubing Material: <u>Polyethylene</u> | Sample Purge Rate (mL/min): <u>200</u> |
| Depth to Water (ft): <u>15.54</u> | Pump Intake/Tubing Depth (ft): <u>23</u> | Sample ID: <u>HAM-PT-10</u> |
| Well Diameter (in): <u>2</u> | Start/Stop Purge Time: <u>0945/1135</u> | Laboratory Analyses: <u>Fe, Mn, SO4</u> |
| Well Volume (gal) = 0.041d ² h: <u>1.879</u> | Purge Rate (mL/min): <u>200</u> | |
| Well Volume (L) = gal * 3.785: <u>7.11</u> | Total Purge Volume (L): <u>20</u> | |

d = well diameter (inches); h = length of water column (feet)

| | | |
|---|--|----------------------------|
| Well Type: Flush <input checked="" type="radio"/> Stick Up | Purge Method: <input checked="" type="radio"/> Low-Flow Well Volume Other: _____ | QA/QC Collected? <u>No</u> |
| Well Lock: <input checked="" type="radio"/> Yes No | Sampling Method: <input checked="" type="radio"/> Pump Discharge Other: _____ | QA/QC I.D. <u>N/A</u> |
| Well Cap Condition: <input checked="" type="radio"/> Good Replace | All sample containers requiring chemical preservation properly preserved prior to demob from well? <input checked="" type="radio"/> Yes No | |
| Well Tag Present: <input checked="" type="radio"/> Yes No | | |

| Time | pH (SU) | Spec. Cond. (µS/cm) | ORP (mV) | DO (mg/L) | Temp. (°C) | Turbidity (NTUs) | DTW (ft btoc) | Purge Rate (mL/min) | Purged Volume (L) | Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.) |
|-----------------------------|------------|---------------------|----------|--|------------|---------------------|---------------|---------------------|-------------------|---|
| 1123 | 7.08 | 882.2 | -27.0 | 0.68 | 17.29 | — | 15.64 | 200 | 19 | |
| 1128 | 7.07 | 884.18 | -24.8 | 0.55 | 17.50 | — | 15.64 | 200 | 20 | |
| 1133 | | | | | | | | | | collect samples |
| AUG | | | | | | | | | | |
| Stabilizing Criteria | +/- 0.1 SU | +/- 5% | | 0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater) | | < 10 NTUs or +/- 5% | < 0.3 ft | > 100 mL < 250 mL | | |

Low-Flow Test Report:

Test Date / Time: 10/10/2023 9:30:09 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|---|---|--|
| Location Name: PT-09 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 20.75 ft Total Depth: 30.75 ft Initial Depth to Water: 15.7 ft | Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 25.75 ft Estimated Total Volume Pumped: 25 Liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.02 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883561 |
|---|---|--|

Test Notes:

Five bottles: App. III and IV (No RADs) and Major Ions.

Weather Conditions:

Clear, 53 degrees F.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|---------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 10/10/2023 9:30 AM | 00:00 | 7.45 pH | 20.08 °C | 310.99 µS/cm | 0.60 mg/L | 12.34 NTU | 72.8 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 9:35 AM | 05:00 | 7.79 pH | 20.36 °C | 306.26 µS/cm | 0.54 mg/L | 12.31 NTU | 53.3 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 9:40 AM | 10:00 | 8.19 pH | 20.56 °C | 306.54 µS/cm | 0.49 mg/L | 10.47 NTU | 39.1 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 9:45 AM | 15:00 | 8.49 pH | 20.75 °C | 314.81 µS/cm | 0.91 mg/L | 8.49 NTU | 27.3 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 9:50 AM | 20:00 | 8.71 pH | 20.83 °C | 317.90 µS/cm | 1.42 mg/L | 7.66 NTU | 6.4 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 9:55 AM | 25:00 | 8.83 pH | 20.97 °C | 321.93 µS/cm | 0.95 mg/L | 8.27 NTU | 0.6 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 10:00 AM | 30:00 | 8.90 pH | 21.03 °C | 324.49 µS/cm | 1.02 mg/L | 9.08 NTU | 13.8 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 10:05 AM | 35:00 | 8.99 pH | 21.07 °C | 327.62 µS/cm | 1.13 mg/L | 11.35 NTU | 14.0 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 10:10 AM | 40:00 | 9.06 pH | 21.20 °C | 329.54 µS/cm | 1.45 mg/L | 12.65 NTU | -7.8 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 10:15 AM | 45:00 | 9.11 pH | 21.24 °C | 331.60 µS/cm | 1.73 mg/L | 12.91 NTU | -9.5 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 10:20 AM | 50:00 | 9.15 pH | 21.29 °C | 335.83 µS/cm | 1.48 mg/L | 14.13 NTU | -9.9 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 10:25 AM | 55:00 | 9.19 pH | 21.42 °C | 335.28 µS/cm | 1.98 mg/L | 15.00 NTU | -10.8 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 10:30 AM | 01:00:00 | 9.21 pH | 21.44 °C | 339.33 µS/cm | 2.29 mg/L | 13.08 NTU | 6.9 mV | 15.72 ft | 200.00 ml/min |

| | | | | | | | | | |
|------------------------|----------|---------|----------|--------------|-----------|-----------|----------|----------|---------------|
| 10/10/2023 10:35 AM | 01:05:00 | 9.22 pH | 21.46 °C | 339.66 µS/cm | 2.21 mg/L | 12.51 NTU | 5.7 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 10:40 AM | 01:10:00 | 9.24 pH | 21.60 °C | 339.63 µS/cm | 2.29 mg/L | 12.48 NTU | 7.3 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 10:45 AM | 01:15:00 | 9.27 pH | 21.68 °C | 339.45 µS/cm | 2.11 mg/L | 11.66 NTU | 6.3 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 10:50 AM | 01:20:00 | 9.28 pH | 21.75 °C | 342.25 µS/cm | 2.12 mg/L | 10.11 NTU | -13.5 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 10:55 AM | 01:25:00 | 9.31 pH | 21.82 °C | 341.54 µS/cm | 1.75 mg/L | 8.84 NTU | -16.5 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 11:00 AM | 01:30:00 | 9.35 pH | 21.82 °C | 341.34 µS/cm | 1.53 mg/L | 8.21 NTU | -14.4 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 11:05 AM | 01:35:00 | 9.32 pH | 21.91 °C | 342.29 µS/cm | 1.57 mg/L | 7.93 NTU | -20.1 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 11:10 AM | 01:40:00 | 9.34 pH | 22.00 °C | 344.15 µS/cm | 1.52 mg/L | 7.37 NTU | -22.9 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 11:15 AM | 01:45:00 | 9.36 pH | 22.00 °C | 343.81 µS/cm | 1.55 mg/L | 7.10 NTU | -2.7 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 11:20 AM | 01:50:00 | 9.36 pH | 22.05 °C | 345.97 µS/cm | 2.80 mg/L | 6.17 NTU | -25.4 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 11:25 AM | 01:55:00 | 9.41 pH | 22.09 °C | 345.31 µS/cm | 2.92 mg/L | 5.18 NTU | -4.7 mV | 15.72 ft | 200.00 ml/min |
| 10/10/2023 11:30 AM | 02:00:00 | 9.40 pH | 22.18 °C | 345.12 µS/cm | 2.79 mg/L | 4.93 NTU | -5.3 mV | 15.72 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|---------------|--------------|
| HAM-PT-09 | Grab. |
| HAM-AP1-FD-01 | Grab. |

Low-Flow Test Report:

Test Date / Time: 10/10/2023 12:59:17 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|--|--|--|
| Location Name: PT-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 21.75 ft Total Depth: 31.75 ft Initial Depth to Water: 15.02 ft | Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 26.75 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.82 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883561 |
|--|--|--|

Test Notes:

Five bottles: App. III and IV (No RADs) and Major Ions.

Weather Conditions:

Clear, 75 degrees F.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|---------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 10/10/2023 12:59 PM | 00:00 | 9.38 pH | 22.18 °C | 934.65 µS/cm | 0.46 mg/L | 7.91 NTU | -87.4 mV | 15.84 ft | 200.00 ml/min |
| 10/10/2023 1:04 PM | 05:00 | 9.58 pH | 21.64 °C | 929.08 µS/cm | 0.39 mg/L | 8.08 NTU | -243.5 mV | 15.84 ft | 200.00 ml/min |
| 10/10/2023 1:09 PM | 10:00 | 9.64 pH | 21.55 °C | 917.34 µS/cm | 0.40 mg/L | 6.83 NTU | -269.7 mV | 15.84 ft | 200.00 ml/min |
| 10/10/2023 1:14 PM | 15:00 | 9.67 pH | 21.44 °C | 913.20 µS/cm | 0.38 mg/L | 4.59 NTU | -281.6 mV | 15.84 ft | 200.00 ml/min |
| 10/10/2023 1:19 PM | 20:00 | 9.66 pH | 21.47 °C | 910.32 µS/cm | 0.38 mg/L | 3.99 NTU | -283.9 mV | 15.84 ft | 200.00 ml/min |
| 10/10/2023 1:24 PM | 25:00 | 9.70 pH | 21.46 °C | 904.79 µS/cm | 0.38 mg/L | 3.27 NTU | -281.4 mV | 15.84 ft | 200.00 ml/min |
| 10/10/2023 1:29 PM | 30:00 | 9.72 pH | 21.48 °C | 898.80 µS/cm | 0.39 mg/L | 2.95 NTU | -278.6 mV | 15.84 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-10 | Grab. |

Low-Flow Test Report:

Test Date / Time: 10/17/2023 1:03:55 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|--|---|--|
| Location Name: PT-07 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.94 ft Total Depth: 47.94 ft Initial Depth to Water: 26.12 ft | Pump Type: Bladder Tubing Type: Polyethylene Pump Intake From TOC: 43.94 ft Estimated Total Volume Pumped: 5.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: -0.02 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|--|---|--|

Test Notes:

Five bottles: App. III and IV (No RADs) and Major Ions.

Weather Conditions:

Clear, 60 degrees F.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 10/17/2023 1:03 PM | 00:00 | 6.83 pH | 22.34 °C | 795.52 µS/cm | 1.70 mg/L | 44.20 NTU | -83.4 mV | 26.10 ft | 100.00 ml/min |
| 10/17/2023 1:08 PM | 05:00 | 6.86 pH | 21.02 °C | 829.95 µS/cm | 1.03 mg/L | 14.70 NTU | -101.4 mV | 26.10 ft | 100.00 ml/min |
| 10/17/2023 1:13 PM | 10:00 | 6.88 pH | 20.97 °C | 833.43 µS/cm | 0.65 mg/L | 9.15 NTU | -90.8 mV | 26.10 ft | 100.00 ml/min |
| 10/17/2023 1:18 PM | 15:00 | 6.88 pH | 20.92 °C | 834.91 µS/cm | 0.73 mg/L | 8.78 NTU | -91.6 mV | 26.10 ft | 100.00 ml/min |
| 10/17/2023 1:23 PM | 20:00 | 6.89 pH | 20.84 °C | 835.65 µS/cm | 0.34 mg/L | 6.94 NTU | -91.9 mV | 26.10 ft | 100.00 ml/min |
| 10/17/2023 1:28 PM | 25:00 | 6.88 pH | 20.84 °C | 833.85 µS/cm | 0.55 mg/L | 5.61 NTU | -92.3 mV | 26.10 ft | 100.00 ml/min |
| 10/17/2023 1:33 PM | 30:00 | 6.89 pH | 20.85 °C | 834.74 µS/cm | 0.52 mg/L | 4.95 NTU | -92.8 mV | 26.10 ft | 100.00 ml/min |
| 10/17/2023 1:38 PM | 35:00 | 6.88 pH | 20.72 °C | 836.23 µS/cm | 0.27 mg/L | 4.56 NTU | -93.1 mV | 26.10 ft | 100.00 ml/min |
| 10/17/2023 1:43 PM | 40:00 | 6.88 pH | 20.75 °C | 835.78 µS/cm | 0.21 mg/L | 3.99 NTU | -104.7 mV | 26.10 ft | 100.00 ml/min |
| 10/17/2023 1:48 PM | 45:00 | 6.89 pH | 20.71 °C | 835.69 µS/cm | 0.27 mg/L | 3.22 NTU | -104.4 mV | 26.10 ft | 100.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

| | |
|---------------|-------|
| HAM-PT-07 | Grab. |
| HAM-AP1-FD-01 | Grab. |

Low-Flow Test Report:

Test Date / Time: 10/17/2023 10:20:57 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|--|---|--|
| Location Name: PT-08 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.2 ft Total Depth: 40.2 ft Initial Depth to Water: 25.48 ft | Pump Type: Bladder Tubing Type: Polyethylene Intake From TOC: 35.2 ft Estimated Total Volume Pumped: 10.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.02 ft | Instrument Used: Aqua TROLL 400 Serial Number: 850724 |
|--|---|--|

Test Notes:

Five bottles: App. III and IV (No RADs) and Major Ions.

Weather Conditions:

Clear, 50 degrees F.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|------------------------|--------------|---------|-------------|-----------------------|-------------------|------------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 10/17/2023 10:20 AM | 00:00 | 6.71 pH | 18.74 °C | 469.88 µS/cm | 1.34 mg/L | 87.00 NTU | -35.1 mV | 25.50 ft | 100.00 ml/min |
| 10/17/2023 10:25 AM | 05:00 | 6.74 pH | 18.86 °C | 493.27 µS/cm | 1.13 mg/L | 115.00 NTU | -39.7 mV | 25.50 ft | 100.00 ml/min |
| 10/17/2023 10:30 AM | 10:00 | 6.75 pH | 18.81 °C | 491.50 µS/cm | 0.92 mg/L | 64.10 NTU | -52.2 mV | 25.50 ft | 100.00 ml/min |
| 10/17/2023 10:35 AM | 15:00 | 6.76 pH | 18.88 °C | 489.84 µS/cm | 0.86 mg/L | 55.30 NTU | -54.0 mV | 25.50 ft | 100.00 ml/min |
| 10/17/2023 10:40 AM | 20:00 | 6.76 pH | 18.91 °C | 488.18 µS/cm | 0.72 mg/L | 19.70 NTU | -54.8 mV | 25.50 ft | 100.00 ml/min |
| 10/17/2023 10:45 AM | 25:00 | 6.76 pH | 18.96 °C | 493.83 µS/cm | 0.66 mg/L | 14.10 NTU | -55.7 mV | 25.50 ft | 100.00 ml/min |
| 10/17/2023 10:50 AM | 30:00 | 6.76 pH | 19.05 °C | 498.76 µS/cm | 0.58 mg/L | 10.10 NTU | -56.6 mV | 25.50 ft | 100.00 ml/min |
| 10/17/2023 10:55 AM | 35:00 | 6.77 pH | 18.96 °C | 504.04 µS/cm | 0.50 mg/L | 12.27 NTU | -57.6 mV | 25.50 ft | 100.00 ml/min |
| 10/17/2023 11:00 AM | 40:00 | 6.77 pH | 19.03 °C | 505.50 µS/cm | 0.45 mg/L | 10.00 NTU | -45.4 mV | 25.50 ft | 100.00 ml/min |
| 10/17/2023 11:05 AM | 45:00 | 6.77 pH | 18.96 °C | 502.24 µS/cm | 0.40 mg/L | 8.98 NTU | -58.1 mV | 25.50 ft | 100.00 ml/min |
| 10/17/2023 11:10 AM | 50:00 | 6.78 pH | 19.04 °C | 502.18 µS/cm | 0.37 mg/L | 8.72 NTU | -58.8 mV | 25.50 ft | 100.00 ml/min |
| 10/17/2023 11:15 AM | 55:00 | 6.78 pH | 19.00 °C | 505.52 µS/cm | 0.34 mg/L | 7.68 NTU | -45.8 mV | 25.50 ft | 100.00 ml/min |
| 10/17/2023 11:20 AM | 01:00:00 | 6.78 pH | 19.03 °C | 504.39 µS/cm | 0.32 mg/L | 7.41 NTU | -59.4 mV | 25.50 ft | 100.00 ml/min |

| | | | | | | | | | |
|------------------------|----------|---------|----------|--------------|-----------|----------|----------|----------|---------------|
| 10/17/2023 11:25 AM | 01:05:00 | 6.78 pH | 19.05 °C | 508.37 µS/cm | 0.30 mg/L | 7.29 NTU | -47.1 mV | 25.50 ft | 100.00 ml/min |
| 10/17/2023 11:30 AM | 01:10:00 | 6.78 pH | 19.09 °C | 513.15 µS/cm | 0.26 mg/L | 6.62 NTU | -60.2 mV | 25.50 ft | 100.00 ml/min |
| 10/17/2023 11:35 AM | 01:15:00 | 6.78 pH | 19.03 °C | 510.42 µS/cm | 0.23 mg/L | 5.99 NTU | -47.7 mV | 25.50 ft | 100.00 ml/min |
| 10/17/2023 11:40 AM | 01:20:00 | 6.79 pH | 19.11 °C | 508.65 µS/cm | 0.21 mg/L | 5.51 NTU | -62.0 mV | 25.50 ft | 100.00 ml/min |
| 10/17/2023 11:45 AM | 01:25:00 | 6.79 pH | 19.16 °C | 505.76 µS/cm | 0.20 mg/L | 5.98 NTU | -61.6 mV | 25.50 ft | 100.00 ml/min |
| 10/17/2023 11:50 AM | 01:30:00 | 6.79 pH | 19.19 °C | 504.51 µS/cm | 0.19 mg/L | 5.44 NTU | -62.1 mV | 25.50 ft | 100.00 ml/min |
| 10/17/2023 11:55 AM | 01:35:00 | 6.79 pH | 19.23 °C | 504.35 µS/cm | 0.17 mg/L | 5.25 NTU | -62.1 mV | 25.50 ft | 100.00 ml/min |
| 10/17/2023 12:00 PM | 01:40:00 | 6.79 pH | 19.28 °C | 504.85 µS/cm | 0.17 mg/L | 4.97 NTU | -62.5 mV | 25.50 ft | 100.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-08 | Grab. |

Low-Flow Test Report:

Test Date / Time: 10/17/2023 3:12:42 PM

Project: GP-Plant Hammond

Operator Name: Zain Webb

| | | |
|---|--|--|
| Location Name: PT-09 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 20.75 ft Total Depth: 30.75 ft Initial Depth to Water: 15.8 ft | Pump Type: Peri Tubing Type: Polyethylene Pump Intake From TOC: 25.75 ft Estimated Total Volume Pumped: 13 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.01 ft | Instrument Used: Aqua TROLL 400 Serial Number: 884189 |
|---|--|--|

Test Notes:

Two bottles: Metals and Sulfate.

Weather Conditions:

Clear, 65 degrees F.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 5 | |
| 10/17/2023 3:12 PM | 00:00 | 7.65 pH | 21.88 °C | 275.86 µS/cm | 5.71 mg/L | 30.90 NTU | 27.9 mV | 15.81 ft | 200.00 ml/min |
| 10/17/2023 3:17 PM | 05:00 | 7.66 pH | 21.51 °C | 277.73 µS/cm | 5.72 mg/L | 27.70 NTU | 25.6 mV | 15.81 ft | 200.00 ml/min |
| 10/17/2023 3:22 PM | 10:00 | 7.67 pH | 21.60 °C | 275.43 µS/cm | 5.74 mg/L | 21.70 NTU | 26.2 mV | 15.81 ft | 200.00 ml/min |
| 10/17/2023 3:27 PM | 15:00 | 7.70 pH | 21.54 °C | 274.39 µS/cm | 5.81 mg/L | 18.40 NTU | 31.2 mV | 15.81 ft | 200.00 ml/min |
| 10/17/2023 3:32 PM | 20:00 | 7.72 pH | 21.51 °C | 268.18 µS/cm | 5.88 mg/L | 19.30 NTU | 27.3 mV | 15.81 ft | 200.00 ml/min |
| 10/17/2023 3:37 PM | 25:00 | 7.74 pH | 21.47 °C | 266.38 µS/cm | 5.89 mg/L | 14.30 NTU | 27.8 mV | 15.81 ft | 200.00 ml/min |
| 10/17/2023 3:42 PM | 30:00 | 7.76 pH | 21.46 °C | 263.26 µS/cm | 5.96 mg/L | 11.50 NTU | 28.1 mV | 15.81 ft | 200.00 ml/min |
| 10/17/2023 3:47 PM | 35:00 | 7.77 pH | 21.43 °C | 260.16 µS/cm | 5.99 mg/L | 9.82 NTU | 28.9 mV | 15.81 ft | 200.00 ml/min |
| 10/17/2023 3:52 PM | 40:00 | 7.78 pH | 21.42 °C | 258.52 µS/cm | 6.03 mg/L | 10.57 NTU | 29.5 mV | 15.81 ft | 200.00 ml/min |
| 10/17/2023 3:57 PM | 45:01 | 7.79 pH | 21.38 °C | 254.76 µS/cm | 6.07 mg/L | 8.86 NTU | 32.1 mV | 15.81 ft | 200.00 ml/min |
| 10/17/2023 4:02 PM | 50:01 | 7.79 pH | 21.40 °C | 255.22 µS/cm | 6.07 mg/L | 5.76 NTU | 37.8 mV | 15.81 ft | 200.00 ml/min |
| 10/17/2023 4:07 PM | 55:01 | 7.80 pH | 21.44 °C | 254.09 µS/cm | 6.07 mg/L | 5.49 NTU | 32.2 mV | 15.81 ft | 200.00 ml/min |
| 10/17/2023 4:12 PM | 01:00:01 | 7.80 pH | 21.47 °C | 252.68 µS/cm | 6.07 mg/L | 4.32 NTU | 32.2 mV | 15.81 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-09 | Grab. |

Low-Flow Test Report:

Test Date / Time: 10/17/2023 1:45:53 PM

Project: GP-Plant Hammond

Operator Name: Zain Webb

| | | |
|--|---|--|
| Location Name: PT-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 21.75 ft Total Depth: 31.75 ft Initial Depth to Water: 15.88 ft | Pump Type: Peri Tubing Type: Polyethylene Pump Intake From TOC: 26.75 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.04 ft | Instrument Used: Aqua TROLL 400 Serial Number: 884189 |
|--|---|--|

Test Notes:

Two bottles: Metals and Sulfate.

Weather Conditions:

Clear, 65 degrees F.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 5 | |
| 10/17/2023 1:46 PM | 00:53 | 7.03 pH | 20.60 °C | 622.14 µS/cm | 0.26 mg/L | 19.70 NTU | -53.6 mV | 15.92 ft | 200.00 ml/min |
| 10/17/2023 1:51 PM | 05:53 | 7.06 pH | 20.48 °C | 609.72 µS/cm | 0.26 mg/L | 17.10 NTU | -47.1 mV | 15.92 ft | 200.00 ml/min |
| 10/17/2023 1:56 PM | 10:53 | 7.06 pH | 20.35 °C | 600.37 µS/cm | 0.24 mg/L | 12.80 NTU | -48.6 mV | 15.92 ft | 200.00 ml/min |
| 10/17/2023 2:01 PM | 15:53 | 7.08 pH | 20.31 °C | 593.29 µS/cm | 0.24 mg/L | 9.79 NTU | -49.4 mV | 15.92 ft | 200.00 ml/min |
| 10/17/2023 2:06 PM | 20:53 | 7.08 pH | 20.33 °C | 592.50 µS/cm | 0.24 mg/L | 7.82 NTU | -49.7 mV | 15.92 ft | 200.00 ml/min |
| 10/17/2023 2:11 PM | 25:53 | 7.10 pH | 20.31 °C | 580.80 µS/cm | 0.26 mg/L | 5.41 NTU | -50.6 mV | 15.92 ft | 200.00 ml/min |
| 10/17/2023 2:16 PM | 30:53 | 7.09 pH | 20.40 °C | 576.76 µS/cm | 0.25 mg/L | 5.21 NTU | -50.3 mV | 15.92 ft | 200.00 ml/min |
| 10/17/2023 2:21 PM | 35:53 | 7.11 pH | 20.31 °C | 568.18 µS/cm | 0.29 mg/L | 4.42 NTU | -50.3 mV | 15.92 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-10 | Grab. |

Low-Flow Test Report:

Test Date / Time: 10/24/2023 10:31:09 AM

Project: GP-Plant Hammond

Operator Name: A. Brown

| | | |
|--|---|--|
| Location Name: HAM-PT-07 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.40 ft Total Depth: 47.40 ft Initial Depth to Water: 26.40 ft | Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 42.50 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 400 Serial Number: 952637 |
|--|---|--|

Test Notes:

Two bottles: Metals and Sulfate.

Weather Conditions:

Sunny, 60 degrees F.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|------------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 10/24/2023 10:31 AM | 00:00 | 6.81 pH | 21.28 °C | 801.80 µS/cm | 1.69 mg/L | -- | -71.1 mV | 26.40 ft | 200.00 ml/min |
| 10/24/2023 10:36 AM | 05:00 | 6.76 pH | 19.74 °C | 856.54 µS/cm | 0.49 mg/L | 12.93 NTU | -87.1 mV | 26.40 ft | 200.00 ml/min |
| 10/24/2023 10:41 AM | 10:00 | 6.77 pH | 19.74 °C | 855.52 µS/cm | 0.41 mg/L | 8.44 NTU | -93.4 mV | 26.40 ft | 200.00 ml/min |
| 10/24/2023 10:46 AM | 15:00 | 6.79 pH | 19.72 °C | 852.43 µS/cm | 0.36 mg/L | 6.59 NTU | -92.6 mV | 26.40 ft | 200.00 ml/min |
| 10/24/2023 10:51 AM | 20:00 | 6.80 pH | 19.77 °C | 855.16 µS/cm | 0.32 mg/L | 4.57 NTU | -99.7 mV | 26.40 ft | 200.00 ml/min |
| 10/24/2023 10:56 AM | 25:00 | 6.82 pH | 19.76 °C | 856.03 µS/cm | 0.29 mg/L | 3.47 NTU | -102.0 mV | 26.40 ft | 200.00 ml/min |
| 10/24/2023 11:01 AM | 30:00 | 6.83 pH | 19.83 °C | 857.51 µS/cm | 0.27 mg/L | 2.78 NTU | -103.8 mV | 26.40 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-07 | Grab. |

Low-Flow Test Report:

Test Date / Time: 10/24/2023 12:07:30 PM

Project: GP-Plant Hammond

Operator Name: A. Brown

| | | |
|--|---|--|
| Location Name: HAM-PT-08 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 31.63 ft Total Depth: 41.63 ft Initial Depth to Water: 25.70 ft | Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 36.60 ft Estimated Total Volume Pumped: 25.4 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.01 ft | Instrument Used: Aqua TROLL 400 Serial Number: 952637 |
|--|---|--|

Test Notes:

Two bottles: Metals and Sulfate.

Weather Conditions:

Sunny, 60 degrees F.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|------------------------|--------------|---------|-------------|-----------------------|-------------------|------------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 10/24/2023 12:07 PM | 00:00 | 6.82 pH | 22.58 °C | 636.21 µS/cm | 1.23 mg/L | -- | -38.7 mV | 25.70 ft | 200.00 ml/min |
| 10/24/2023 12:12 PM | 05:00 | 6.75 pH | 20.83 °C | 1.93 µS/cm | 5.48 mg/L | 113.00 NTU | -6.8 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 12:18 PM | 10:47 | 6.75 pH | 20.52 °C | 732.77 µS/cm | 0.36 mg/L | 77.30 NTU | -52.9 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 12:23 PM | 15:47 | 6.75 pH | 20.39 °C | 730.60 µS/cm | 0.31 mg/L | 50.60 NTU | -57.4 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 12:28 PM | 20:47 | 6.75 pH | 20.30 °C | 733.95 µS/cm | 0.29 mg/L | 38.10 NTU | -63.6 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 12:33 PM | 25:47 | 6.75 pH | 20.26 °C | 739.50 µS/cm | 0.21 mg/L | 30.00 NTU | -65.9 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 12:38 PM | 30:47 | 6.75 pH | 20.32 °C | 738.62 µS/cm | 0.18 mg/L | 21.20 NTU | -67.8 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 12:43 PM | 35:47 | 6.75 pH | 20.35 °C | 741.30 µS/cm | 0.16 mg/L | 17.40 NTU | -69.5 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 12:48 PM | 40:47 | 6.75 pH | 20.30 °C | 738.81 µS/cm | 0.16 mg/L | 16.40 NTU | -67.3 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 12:53 PM | 45:47 | 6.75 pH | 20.25 °C | 739.90 µS/cm | 0.15 mg/L | 13.10 NTU | -64.9 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 12:58 PM | 50:47 | 6.76 pH | 20.22 °C | 739.03 µS/cm | 0.15 mg/L | 11.70 NTU | -70.7 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 1:03 PM | 55:47 | 6.75 pH | 20.21 °C | 737.28 µS/cm | 0.16 mg/L | 14.15 NTU | -71.3 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 1:08 PM | 01:00:47 | 6.75 pH | 20.75 °C | 743.94 µS/cm | 0.18 mg/L | 12.57 NTU | -73.0 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 1:13 PM | 01:05:47 | 6.76 pH | 20.80 °C | 743.51 µS/cm | 0.16 mg/L | 10.65 NTU | -68.8 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 1:14 PM | 01:06:56 | 6.76 pH | 20.79 °C | 741.17 µS/cm | 0.15 mg/L | 9.94 NTU | -68.2 mV | 25.71 ft | 200.00 ml/min |

| | | | | | | | | | |
|-----------------------|----------|---------|----------|--------------|-----------|----------|----------|----------|---------------|
| 10/24/2023 1:19 PM | 01:11:56 | 6.75 pH | 20.84 °C | 740.63 µS/cm | 0.12 mg/L | 8.69 NTU | -68.7 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 1:24 PM | 01:16:56 | 6.75 pH | 20.78 °C | 739.31 µS/cm | 0.11 mg/L | 8.52 NTU | -73.8 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 1:29 PM | 01:21:56 | 6.75 pH | 20.79 °C | 738.65 µS/cm | 0.12 mg/L | 8.69 NTU | -74.9 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 1:34 PM | 01:26:56 | 6.75 pH | 20.79 °C | 738.55 µS/cm | 0.12 mg/L | 8.38 NTU | -75.3 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 1:39 PM | 01:31:56 | 6.75 pH | 21.10 °C | 740.35 µS/cm | 0.63 mg/L | 7.43 NTU | -64.9 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 1:44 PM | 01:36:56 | 6.75 pH | 21.08 °C | 740.78 µS/cm | 0.50 mg/L | 7.03 NTU | -67.7 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 1:49 PM | 01:41:56 | 6.75 pH | 21.19 °C | 740.38 µS/cm | 0.45 mg/L | 6.18 NTU | -73.9 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 1:54 PM | 01:46:56 | 6.75 pH | 21.04 °C | 740.30 µS/cm | 0.44 mg/L | 5.53 NTU | -69.8 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 1:59 PM | 01:51:56 | 6.75 pH | 20.84 °C | 739.10 µS/cm | 0.39 mg/L | 5.59 NTU | -69.6 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 2:04 PM | 01:56:56 | 6.75 pH | 21.15 °C | 738.29 µS/cm | 0.29 mg/L | 5.23 NTU | -75.1 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 2:09 PM | 02:01:56 | 6.75 pH | 21.12 °C | 738.78 µS/cm | 0.25 mg/L | 5.45 NTU | -76.1 mV | 25.71 ft | 200.00 ml/min |
| 10/24/2023 2:14 PM | 02:06:56 | 6.75 pH | 20.57 °C | 736.95 µS/cm | 0.23 mg/L | 4.87 NTU | -75.7 mV | 25.71 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-08 | Grab. |

Low-Flow Test Report:

Test Date / Time: 10/24/2023 3:16:47 PM

Project: GP-Plant Hammond

Operator Name: A. Brown

| | | |
|--|--|--|
| Location Name: HAM-PT-09 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 20.75 ft Total Depth: 30.75 ft Initial Depth to Water: 16.04 ft | Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 25.70 ft Estimated Total Volume Pumped: 11 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 400 Serial Number: 952637 |
|--|--|--|

Test Notes:

Five bottles: App. III and IV (No RADs) and Major Ions.

Weather Conditions:

Sunny, 60 degrees F.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 10/24/2023 3:16 PM | 00:00 | 7.28 pH | 22.29 °C | 317.17 µS/cm | 1.60 mg/L | -- | 43.8 mV | 16.04 ft | 200.00 ml/min |
| 10/24/2023 3:21 PM | 05:00 | 7.27 pH | 21.55 °C | 315.61 µS/cm | 1.61 mg/L | 18.30 NTU | 42.2 mV | 16.04 ft | 200.00 ml/min |
| 10/24/2023 3:26 PM | 10:00 | 7.27 pH | 21.45 °C | 308.88 µS/cm | 2.05 mg/L | 14.40 NTU | 40.3 mV | 16.04 ft | 200.00 ml/min |
| 10/24/2023 3:31 PM | 15:00 | 7.27 pH | 21.41 °C | 309.04 µS/cm | 2.31 mg/L | 11.51 NTU | 42.2 mV | 16.04 ft | 200.00 ml/min |
| 10/24/2023 3:36 PM | 20:00 | 7.27 pH | 21.33 °C | 313.55 µS/cm | 2.35 mg/L | 8.75 NTU | 42.2 mV | 16.04 ft | 200.00 ml/min |
| 10/24/2023 3:41 PM | 25:00 | 7.26 pH | 21.37 °C | 321.83 µS/cm | 2.31 mg/L | 8.25 NTU | 41.8 mV | 16.04 ft | 200.00 ml/min |
| 10/24/2023 3:46 PM | 30:00 | 7.25 pH | 21.30 °C | 335.62 µS/cm | 2.27 mg/L | 8.89 NTU | 42.8 mV | 16.04 ft | 200.00 ml/min |
| 10/24/2023 3:51 PM | 35:00 | 7.26 pH | 21.28 °C | 342.05 µS/cm | 2.24 mg/L | 5.78 NTU | 42.7 mV | 16.04 ft | 200.00 ml/min |
| 10/24/2023 3:56 PM | 40:00 | 7.26 pH | 21.37 °C | 347.91 µS/cm | 2.16 mg/L | 5.82 NTU | 41.4 mV | 16.04 ft | 200.00 ml/min |
| 10/24/2023 4:01 PM | 45:00 | 7.25 pH | 21.33 °C | 354.96 µS/cm | 2.12 mg/L | 5.76 NTU | 42.7 mV | 16.04 ft | 200.00 ml/min |
| 10/24/2023 4:06 PM | 50:00 | 7.25 pH | 21.28 °C | 362.29 µS/cm | 2.07 mg/L | 5.31 NTU | 42.8 mV | 16.04 ft | 200.00 ml/min |
| 10/24/2023 4:11 PM | 55:00 | 7.25 pH | 21.31 °C | 367.85 µS/cm | 1.99 mg/L | 4.91 NTU | 42.7 mV | 16.04 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
|------------|--------------|

| | |
|---------------|-------|
| HAM-PT-09 | Grab. |
| HAM-AP1-FD-01 | Grab. |

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/24/2023 4:39:31 PM

Project: GP-Plant Hammond

Operator Name: A. Brown

| | | |
|--|---|--|
| Location Name: HAM-PT-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 21.75 ft Total Depth: 31.75 ft Initial Depth to Water: 16.14 ft | Pump Type: QED Bladder Tubing Type: LDPE Pump Intake From TOC: 26.70 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 400 Serial Number: 952637 |
|--|---|--|

Test Notes:

Five bottles: App. III and IV (No RADs) and Major Ions.

Weather Conditions:

Sunny, 60 degrees F.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 10/24/2023 4:39 PM | 00:00 | 7.15 pH | 24.64 °C | 625.15 µS/cm | 0.47 mg/L | -- | -38.5 mV | 16.14 ft | 200.00 ml/min |
| 10/24/2023 4:44 PM | 05:00 | 7.08 pH | 21.72 °C | 613.97 µS/cm | 0.24 mg/L | 5.51 NTU | -66.4 mV | 16.14 ft | 200.00 ml/min |
| 10/24/2023 4:49 PM | 10:00 | 7.10 pH | 21.37 °C | 595.45 µS/cm | 0.18 mg/L | 3.34 NTU | -73.7 mV | 16.14 ft | 200.00 ml/min |
| 10/24/2023 4:54 PM | 15:00 | 7.11 pH | 21.33 °C | 573.80 µS/cm | 0.14 mg/L | 2.69 NTU | -70.6 mV | 16.14 ft | 200.00 ml/min |
| 10/24/2023 4:59 PM | 20:00 | 7.11 pH | 21.30 °C | 566.65 µS/cm | 0.14 mg/L | 2.31 NTU | -72.4 mV | 16.14 ft | 200.00 ml/min |
| 10/24/2023 5:04 PM | 25:00 | 7.12 pH | 21.21 °C | 556.62 µS/cm | 0.13 mg/L | 1.84 NTU | -79.5 mV | 16.14 ft | 200.00 ml/min |
| 10/24/2023 5:09 PM | 30:00 | 7.13 pH | 21.19 °C | 548.18 µS/cm | 0.13 mg/L | 1.43 NTU | -80.6 mV | 16.14 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-10 | Grab. |

Low-Flow Test Report:

Test Date / Time: 10/31/2023 11:00:14 AM

Project: GP-Plant Hammond

Operator Name: Zain Webb

| | | |
|--|--|--|
| Location Name: PT-07 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.94 ft Total Depth: 47.94 ft Initial Depth to Water: 26.64 ft | Pump Type: Bladder Pump Tubing Type: Polyethylene Pump Intake From TOC: 42.94 ft Estimated Total Volume Pumped: 5.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.08 ft | Instrument Used: Aqua TROLL 400 Serial Number: 843593 |
|--|--|--|

Test Notes:

Weather Conditions:

Cloudy, 50 degrees F.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|---------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 10/31/2023 11:00 AM | 00:00 | 6.73 pH | 18.73 °C | 802.89 µS/cm | 0.91 mg/L | 15.50 NTU | -92.8 mV | 26.80 ft | 100.00 ml/min |
| 10/31/2023 11:05 AM | 05:00 | 6.74 pH | 18.79 °C | 803.46 µS/cm | 0.64 mg/L | 14.10 NTU | -91.9 mV | 26.81 ft | 100.00 ml/min |
| 10/31/2023 11:10 AM | 10:00 | 6.71 pH | 18.84 °C | 803.38 µS/cm | 1.34 mg/L | 12.30 NTU | -74.3 mV | 26.72 ft | 100.00 ml/min |
| 10/31/2023 11:15 AM | 15:00 | 6.71 pH | 18.83 °C | 802.27 µS/cm | 1.24 mg/L | 11.60 NTU | -88.6 mV | 26.72 ft | 100.00 ml/min |
| 10/31/2023 11:17 AM | 17:00 | 6.72 pH | 18.83 °C | 642.00 µS/cm | 1.65 mg/L | 9.46 NTU | -78.4 mV | 26.72 ft | 100.00 ml/min |
| 10/31/2023 11:22 AM | 22:00 | 6.76 pH | 18.91 °C | 792.13 µS/cm | 1.00 mg/L | 8.79 NTU | -96.5 mV | 26.72 ft | 100.00 ml/min |
| 10/31/2023 11:27 AM | 27:00 | 6.76 pH | 18.86 °C | 797.11 µS/cm | 0.77 mg/L | 8.08 NTU | -98.2 mV | 26.72 ft | 100.00 ml/min |
| 10/31/2023 11:32 AM | 32:00 | 6.76 pH | 19.29 °C | 801.91 µS/cm | 1.10 mg/L | 6.33 NTU | -84.4 mV | 26.72 ft | 100.00 ml/min |
| 10/31/2023 11:37 AM | 37:00 | 6.75 pH | 19.28 °C | 799.91 µS/cm | 0.69 mg/L | 4.65 NTU | -86.6 mV | 26.72 ft | 100.00 ml/min |
| 10/31/2023 11:42 AM | 42:00 | 6.75 pH | 19.41 °C | 795.92 µS/cm | 0.60 mg/L | 3.28 NTU | -82.8 mV | 26.72 ft | 100.00 ml/min |
| 10/31/2023 11:47 AM | 47:00 | 6.75 pH | 19.32 °C | 793.71 µS/cm | 0.70 mg/L | 4.39 NTU | -84.0 mV | 26.72 ft | 100.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| PT-07 | Grab. |

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/31/2023 2:21:02 PM

Project: GP-Plant Hammond

Operator Name: Zain Webb

| | | |
|--|---|--|
| Location Name: PT-08 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.00 ft Total Depth: 42.00 ft Initial Depth to Water: 25.91 ft | Pump Type: Bladder Pump Tubing Type: Polyethylene Intake From TOC: 37.00 ft Estimated Total Volume Pumped: 7.50 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.03 ft | Instrument Used: Aqua TROLL 400 Serial Number: 843593 |
|--|---|--|

Test Notes:

Weather Conditions:

Clear, 60 degrees F.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 10/31/2023 2:21 PM | 00:00 | 6.64 pH | 19.21 °C | 723.66 µS/cm | 1.39 mg/L | 16.00 NTU | -56.9 mV | 25.94 ft | 100.00 ml/min |
| 10/31/2023 2:26 PM | 05:00 | 6.57 pH | 19.26 °C | 721.57 µS/cm | 1.42 mg/L | 11.50 NTU | -53.8 mV | 25.94 ft | 100.00 ml/min |
| 10/31/2023 2:31 PM | 10:00 | 6.57 pH | 19.28 °C | 727.58 µS/cm | 1.31 mg/L | 11.90 NTU | -52.3 mV | 25.94 ft | 100.00 ml/min |
| 10/31/2023 2:36 PM | 15:00 | 6.56 pH | 19.19 °C | 729.03 µS/cm | 1.32 mg/L | 9.11 NTU | -54.6 mV | 25.94 ft | 100.00 ml/min |
| 10/31/2023 2:41 PM | 20:00 | 6.56 pH | 19.25 °C | 731.47 µS/cm | 1.06 mg/L | 7.89 NTU | -53.7 mV | 25.94 ft | 100.00 ml/min |
| 10/31/2023 2:46 PM | 25:00 | 6.56 pH | 19.28 °C | 729.17 µS/cm | 1.13 mg/L | 7.62 NTU | -50.3 mV | 25.94 ft | 100.00 ml/min |
| 10/31/2023 2:51 PM | 30:00 | 6.55 pH | 19.19 °C | 733.05 µS/cm | 0.92 mg/L | 6.38 NTU | -52.6 mV | 25.94 ft | 100.00 ml/min |
| 10/31/2023 2:56 PM | 35:00 | 6.55 pH | 19.22 °C | 732.30 µS/cm | 0.94 mg/L | 6.36 NTU | -52.0 mV | 25.94 ft | 100.00 ml/min |
| 10/31/2023 3:01 PM | 40:00 | 6.55 pH | 19.23 °C | 731.61 µS/cm | 0.99 mg/L | 6.29 NTU | -51.7 mV | 25.94 ft | 100.00 ml/min |
| 10/31/2023 3:06 PM | 45:00 | 6.55 pH | 19.24 °C | 734.08 µS/cm | 1.02 mg/L | 5.25 NTU | -51.0 mV | 25.94 ft | 100.00 ml/min |
| 10/31/2023 3:11 PM | 50:00 | 6.55 pH | 19.23 °C | 743.59 µS/cm | 0.73 mg/L | 3.71 NTU | -52.3 mV | 25.94 ft | 100.00 ml/min |
| 10/31/2023 3:16 PM | 55:00 | 6.54 pH | 19.24 °C | 739.22 µS/cm | 1.74 mg/L | 4.75 NTU | -46.8 mV | 25.94 ft | 100.00 ml/min |
| 10/31/2023 3:21 PM | 01:00:00 | 6.54 pH | 19.33 °C | 740.51 µS/cm | 1.39 mg/L | 4.65 NTU | -46.7 mV | 25.94 ft | 100.00 ml/min |

| | | | | | | | | | |
|-----------------------|----------|---------|----------|--------------|-----------|----------|----------|----------|---------------|
| 10/31/2023 3:26 PM | 01:05:00 | 6.54 pH | 19.22 °C | 747.41 µS/cm | 1.31 mg/L | 4.57 NTU | -46.3 mV | 25.94 ft | 100.00 ml/min |
|-----------------------|----------|---------|----------|--------------|-----------|----------|----------|----------|---------------|

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-08 | Grab. |

Low-Flow Test Report:

Test Date / Time: 10/31/2023 2:20:09 PM

Project: GP-Plant Hammond

Operator Name: Elisabeth Russell

| | | |
|---|---|--|
| Location Name: PT-09 Well Diameter: 2 in Screen Length: 10 ft Top of Screen: 17.45 ft Total Depth: 27.45 ft Initial Depth to Water: 16.15 ft | Pump Type: Peri Tubing Type: Polyethylene Pump Intake From TOC: 22.45 ft Estimated Total Volume Pumped: 21.35 liter Flow Cell Volume: 90 ml Final Flow Rate: 175 ml/min Final Draw Down: 0.02 ft | Instrument Used: Aqua TROLL 400 Serial Number: 980712 |
|---|---|--|

Test Notes:

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 10/31/2023 2:20 PM | 00:00 | 7.42 pH | 23.02 °C | 449.80 µS/cm | 0.96 mg/L | 15.20 NTU | -8.0 mV | 16.16 ft | 175.00 ml/min |
| 10/31/2023 2:25 PM | 05:00 | 7.09 pH | 20.29 °C | 468.07 µS/cm | 0.45 mg/L | 16.00 NTU | 12.4 mV | 16.15 ft | 175.00 ml/min |
| 10/31/2023 2:30 PM | 10:00 | 7.09 pH | 20.20 °C | 467.68 µS/cm | 0.32 mg/L | 14.60 NTU | 19.6 mV | 16.16 ft | 175.00 ml/min |
| 10/31/2023 2:35 PM | 15:00 | 7.06 pH | 20.03 °C | 469.57 µS/cm | 0.30 mg/L | 15.50 NTU | 24.0 mV | 16.16 ft | 175.00 ml/min |
| 10/31/2023 2:40 PM | 20:00 | 7.06 pH | 19.92 °C | 471.21 µS/cm | 0.31 mg/L | 14.90 NTU | 25.6 mV | 16.16 ft | 175.00 ml/min |
| 10/31/2023 2:45 PM | 25:00 | 7.05 pH | 20.40 °C | 471.34 µS/cm | 0.32 mg/L | 15.00 NTU | 23.6 mV | 16.17 ft | 175.00 ml/min |
| 10/31/2023 2:50 PM | 30:00 | 7.04 pH | 20.08 °C | 475.26 µS/cm | 0.42 mg/L | 14.40 NTU | 29.3 mV | 16.17 ft | 175.00 ml/min |
| 10/31/2023 2:52 PM | 32:04 | 7.05 pH | 20.10 °C | 479.57 µS/cm | 0.32 mg/L | 14.10 NTU | 25.7 mV | 16.17 ft | 175.00 ml/min |
| 10/31/2023 2:57 PM | 37:04 | 7.05 pH | 20.10 °C | 480.27 µS/cm | 0.32 mg/L | 14.40 NTU | 28.4 mV | 16.17 ft | 175.00 ml/min |
| 10/31/2023 3:02 PM | 42:04 | 7.05 pH | 20.03 °C | 485.61 µS/cm | 0.31 mg/L | 13.40 NTU | 28.3 mV | 16.17 ft | 175.00 ml/min |
| 10/31/2023 3:07 PM | 47:04 | 7.05 pH | 20.13 °C | 492.34 µS/cm | 0.42 mg/L | 12.10 NTU | 28.1 mV | 16.17 ft | 175.00 ml/min |
| 10/31/2023 3:12 PM | 52:04 | 7.04 pH | 20.15 °C | 493.33 µS/cm | 0.46 mg/L | 10.40 NTU | 28.2 mV | 16.17 ft | 175.00 ml/min |
| 10/31/2023 3:17 PM | 57:04 | 7.04 pH | 20.21 °C | 504.28 µS/cm | 0.37 mg/L | 10.30 NTU | 27.4 mV | 16.17 ft | 175.00 ml/min |
| 10/31/2023 3:22 PM | 01:02:04 | 7.04 pH | 20.08 °C | 511.01 µS/cm | 0.33 mg/L | 9.06 NTU | 26.4 mV | 16.17 ft | 175.00 ml/min |
| 10/31/2023 3:27 PM | 01:07:04 | 7.04 pH | 20.07 °C | 514.05 µS/cm | 0.31 mg/L | 8.15 NTU | 21.9 mV | 16.17 ft | 175.00 ml/min |
| 10/31/2023 3:32 PM | 01:12:04 | 7.04 pH | 20.12 °C | 518.52 µS/cm | 0.32 mg/L | 7.33 NTU | 24.1 mV | 16.17 ft | 175.00 ml/min |

| | | | | | | | | | |
|-----------------------|----------|---------|----------|--------------|-----------|----------|---------|----------|---------------|
| 10/31/2023 3:37 PM | 01:17:04 | 7.04 pH | 20.11 °C | 517.70 µS/cm | 0.32 mg/L | 6.61 NTU | 23.5 mV | 16.17 ft | 175.00 ml/min |
| 10/31/2023 3:42 PM | 01:22:04 | 7.03 pH | 20.07 °C | 520.83 µS/cm | 0.46 mg/L | 5.66 NTU | 23.8 mV | 16.17 ft | 175.00 ml/min |
| 10/31/2023 3:47 PM | 01:27:04 | 7.03 pH | 19.96 °C | 526.27 µS/cm | 0.47 mg/L | 5.43 NTU | 20.3 mV | 16.17 ft | 175.00 ml/min |
| 10/31/2023 3:52 PM | 01:32:04 | 7.04 pH | 20.05 °C | 525.46 µS/cm | 0.47 mg/L | 4.99 NTU | 22.3 mV | 16.17 ft | 175.00 ml/min |
| 10/31/2023 3:57 PM | 01:37:04 | 7.04 pH | 19.93 °C | 523.84 µS/cm | 0.31 mg/L | 4.75 NTU | 20.8 mV | 16.17 ft | 175.00 ml/min |
| 10/31/2023 4:02 PM | 01:42:04 | 7.04 pH | 20.06 °C | 528.08 µS/cm | 0.31 mg/L | 4.77 NTU | 20.1 mV | 16.17 ft | 175.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-09 | Grab. |

Low-Flow Test Report:

Test Date / Time: 10/31/2023 11:59:06 AM

Project: GP-Plant Hammond

Operator Name: Elisabeth Russell

| | | |
|---|---|--|
| Location Name: PT-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.40 ft Total Depth: 27.40 ft | Pump Type: Peri Tubing Type: Polyethylene Pump Intake From TOC: 22.4 ft Estimated Total Volume Pumped: 12.80 liter Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0.03 m | Instrument Used: Aqua TROLL 400 Serial Number: 980712 |
|---|---|--|

Test Notes:

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|------------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.5 | |
| 10/31/2023 11:59 AM | 00:00 | 6.98 pH | 19.52 °C | 571.55 µS/cm | 0.22 mg/L | 27.80 NTU | -19.5 mV | 16.28 ft | 160.00 ml/min |
| 10/31/2023 12:04 PM | 05:00 | 7.01 pH | 19.05 °C | 558.56 µS/cm | 0.31 mg/L | 22.80 NTU | -40.8 mV | 16.28 ft | 160.00 ml/min |
| 10/31/2023 12:09 PM | 10:00 | 7.03 pH | 19.37 °C | 544.09 µS/cm | 0.37 mg/L | 17.90 NTU | -36.5 mV | 16.28 ft | 160.00 ml/min |
| 10/31/2023 12:14 PM | 15:00 | 7.05 pH | 19.12 °C | 533.66 µS/cm | 0.53 mg/L | 15.90 NTU | -39.1 mV | 16.28 ft | 160.00 ml/min |
| 10/31/2023 12:19 PM | 20:00 | 7.05 pH | 19.27 °C | 527.39 µS/cm | 0.48 mg/L | 12.30 NTU | -41.5 mV | 16.28 ft | 160.00 ml/min |
| 10/31/2023 12:24 PM | 25:00 | 7.06 pH | 19.23 °C | 520.16 µS/cm | 0.68 mg/L | 9.95 NTU | -41.9 mV | 16.28 ft | 160.00 ml/min |
| 10/31/2023 12:29 PM | 30:00 | 7.08 pH | 19.28 °C | 512.67 µS/cm | 0.56 mg/L | 8.32 NTU | -42.8 mV | 16.28 ft | 160.00 ml/min |
| 10/31/2023 12:34 PM | 35:00 | 7.08 pH | 19.05 °C | 505.66 µS/cm | 0.53 mg/L | 7.96 NTU | -42.1 mV | 16.28 ft | 160.00 ml/min |
| 10/31/2023 12:39 PM | 40:00 | 7.09 pH | 19.04 °C | 506.96 µS/cm | 0.50 mg/L | 6.19 NTU | -54.1 mV | 16.28 ft | 160.00 ml/min |
| 10/31/2023 12:44 PM | 45:00 | 7.09 pH | 19.36 °C | 500.96 µS/cm | 0.42 mg/L | 5.23 NTU | -56.1 mV | 16.28 ft | 160.00 ml/min |
| 10/31/2023 12:49 PM | 50:00 | 7.10 pH | 19.76 °C | 499.43 µS/cm | 0.29 mg/L | 5.00 NTU | -56.2 mV | 16.28 ft | 160.00 ml/min |
| 10/31/2023 12:54 PM | 55:00 | 7.10 pH | 19.81 °C | 485.85 µS/cm | 0.16 mg/L | 4.71 NTU | -56.5 mV | 16.28 ft | 160.00 ml/min |
| 10/31/2023 12:59 PM | 01:00:00 | 7.11 pH | 19.83 °C | 488.29 µS/cm | 0.15 mg/L | 4.40 NTU | -44.2 mV | 16.28 ft | 160.00 ml/min |
| 10/31/2023 1:04 PM | 01:05:00 | 7.11 pH | 19.84 °C | 483.92 µS/cm | 0.15 mg/L | 3.88 NTU | -57.2 mV | 16.28 ft | 160.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-10 | Grab. |

November 2023

Low-Flow Test Report:

Test Date / Time: 11/7/2023 2:33:23 PM

Project: GP-Plant Hammond

Operator Name: Zain Webb

| | | |
|--|---|--|
| Location Name: PT-07 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 38.00 ft Total Depth: 48.00 ft Initial Depth to Water: 26.87 ft | Pump Type: Bladder Pump Tubing Type: Polyethylene Pump Intake From TOC: 42.00 ft Estimated Total Volume Pumped: 6.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.06 ft | Instrument Used: Aqua TROLL 400 Serial Number: 980712 |
|--|---|--|

Test Notes:

Two bottles: Metals and Sulfate.

Weather Conditions:

Clear, 75 degrees F.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|-----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 11/7/2023 2:33 PM | 00:00 | 6.85 pH | 22.10 °C | 958.12 µS/cm | 1.34 mg/L | 13.20 NTU | -100.4 mV | 26.93 ft | 100.00 ml/min |
| 11/7/2023 2:38 PM | 05:00 | 6.87 pH | 21.46 °C | 969.15 µS/cm | 0.74 mg/L | 11.80 NTU | -100.5 mV | 26.93 ft | 100.00 ml/min |
| 11/7/2023 2:43 PM | 10:00 | 6.87 pH | 21.23 °C | 969.58 µS/cm | 0.51 mg/L | 8.16 NTU | -111.5 mV | 26.93 ft | 100.00 ml/min |
| 11/7/2023 2:48 PM | 15:00 | 6.88 pH | 21.01 °C | 972.17 µS/cm | 0.97 mg/L | 8.45 NTU | -109.6 mV | 26.93 ft | 100.00 ml/min |
| 11/7/2023 2:53 PM | 20:00 | 6.88 pH | 21.01 °C | 974.50 µS/cm | 0.67 mg/L | 7.93 NTU | -99.6 mV | 26.93 ft | 100.00 ml/min |
| 11/7/2023 2:58 PM | 25:00 | 6.87 pH | 21.10 °C | 972.63 µS/cm | 0.44 mg/L | 7.66 NTU | -100.2 mV | 26.93 ft | 100.00 ml/min |
| 11/7/2023 3:03 PM | 30:00 | 6.88 pH | 20.96 °C | 972.46 µS/cm | 0.69 mg/L | 6.47 NTU | -99.5 mV | 26.93 ft | 100.00 ml/min |
| 11/7/2023 3:08 PM | 35:00 | 6.88 pH | 20.92 °C | 974.90 µS/cm | 0.44 mg/L | 6.39 NTU | -110.4 mV | 26.93 ft | 100.00 ml/min |
| 11/7/2023 3:13 PM | 40:00 | 6.88 pH | 20.98 °C | 974.66 µS/cm | 0.50 mg/L | 7.16 NTU | -110.7 mV | 26.93 ft | 100.00 ml/min |
| 11/7/2023 3:18 PM | 45:00 | 6.88 pH | 20.85 °C | 973.99 µS/cm | 0.70 mg/L | 6.81 NTU | -100.9 mV | 26.93 ft | 100.00 ml/min |
| 11/7/2023 3:23 PM | 50:00 | 6.88 pH | 20.77 °C | 975.68 µS/cm | 0.32 mg/L | 4.30 NTU | -101.4 mV | 26.93 ft | 100.00 ml/min |
| 11/7/2023 3:28 PM | 55:00 | 6.89 pH | 20.74 °C | 976.30 µS/cm | 0.25 mg/L | 4.34 NTU | -111.5 mV | 26.93 ft | 100.00 ml/min |
| 11/7/2023 3:33 PM | 01:00:00 | 6.89 pH | 20.67 °C | 974.44 µS/cm | 0.30 mg/L | 4.27 NTU | -111.5 mV | 26.93 ft | 100.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-07 | Grab. |

Low-Flow Test Report:

Test Date / Time: 11/7/2023 12:29:45 PM

Project: GP-Plant Hammond

Operator Name: Zain Webb

| | | |
|--|---|--|
| Location Name: PT-08 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.20 ft Total Depth: 42.20 ft Initial Depth to Water: 26.13 ft | Pump Type: Bladder Pump Tubing Type: Polyethylene Pump Intake From TOC: 37.20 ft Estimated Total Volume Pumped: 4 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.03 ft | Instrument Used: Aqua TROLL 400 Serial Number: 980712 |
|--|---|--|

Test Notes:

Two bottles: Metals and Sulfate.

Weather Conditions:

Clear, 75 degrees F.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 11/7/2023 12:29 PM | 00:00 | 6.72 pH | 21.42 °C | 866.79 µS/cm | 5.50 mg/L | 38.50 NTU | -53.5 mV | 26.16 ft | 100.00 ml/min |
| 11/7/2023 12:34 PM | 05:00 | 6.72 pH | 20.87 °C | 909.58 µS/cm | 1.13 mg/L | 20.00 NTU | -52.5 mV | 26.16 ft | 100.00 ml/min |
| 11/7/2023 12:39 PM | 10:00 | 6.72 pH | 20.86 °C | 907.90 µS/cm | 1.03 mg/L | 14.60 NTU | -48.4 mV | 26.16 ft | 100.00 ml/min |
| 11/7/2023 12:44 PM | 15:00 | 6.72 pH | 20.77 °C | 915.19 µS/cm | 1.17 mg/L | 12.30 NTU | -46.7 mV | 26.16 ft | 100.00 ml/min |
| 11/7/2023 12:49 PM | 20:00 | 6.72 pH | 20.84 °C | 911.12 µS/cm | 1.04 mg/L | 10.90 NTU | -45.8 mV | 26.16 ft | 100.00 ml/min |
| 11/7/2023 12:54 PM | 25:00 | 6.72 pH | 20.81 °C | 909.93 µS/cm | 1.11 mg/L | 7.49 NTU | -45.2 mV | 26.16 ft | 100.00 ml/min |
| 11/7/2023 12:59 PM | 30:00 | 6.72 pH | 20.88 °C | 915.32 µS/cm | 1.07 mg/L | 5.99 NTU | -44.7 mV | 26.16 ft | 100.00 ml/min |
| 11/7/2023 1:04 PM | 35:00 | 6.73 pH | 20.78 °C | 914.11 µS/cm | 0.99 mg/L | 4.81 NTU | -44.5 mV | 26.16 ft | 100.00 ml/min |

Samples

| Sample ID: | Description: |
|---------------|--------------|
| HAM-PT-08 | Grab. |
| HAM-AP1-FD-01 | Grab. |

Low-Flow Test Report:

Test Date / Time: 11/14/2023 3:53:06 PM

Project: GP-Plant Hammond

Operator Name: Zain Webb

| | | |
|--|--|--|
| Location Name: PT-09 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.45 ft Total Depth: 27.45 ft Initial Depth to Water: 16.25 ft | Pump Type: Bladder Pump Tubing Type: Polyethylene Pump Intake From TOC: 22.45 ft Estimated Total Volume Pumped: 18.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.03 ft | Instrument Used: Aqua TROLL 400 Serial Number: 843285 |
|--|--|--|

Test Notes:

Switched to 100 ml/min after 1633 measurement (40 minutes).

Turbidity was not measured between 1658 to 1733.

Five bottles: App. III and IV (No RADs) and Major Ions.

Weather Conditions:

Clear, 60 degrees F.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|------------|---------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 11/14/2023 3:53 PM | 00:00 | 7.04 pH | 20.21 °C | 832.67 µS/cm | 0.70 mg/L | 511.00 NTU | 5.8 mV | 16.28 ft | 200.00 ml/min |
| 11/14/2023 3:58 PM | 05:00 | 6.99 pH | 20.11 °C | 822.55 µS/cm | 0.71 mg/L | 493.00 NTU | 0.9 mV | 16.28 ft | 200.00 ml/min |
| 11/14/2023 4:03 PM | 10:00 | 6.98 pH | 20.06 °C | 806.04 µS/cm | 0.24 mg/L | 436.00 NTU | -5.2 mV | 16.28 ft | 200.00 ml/min |
| 11/14/2023 4:08 PM | 15:00 | 6.98 pH | 20.02 °C | 806.67 µS/cm | 0.10 mg/L | 392.00 NTU | -5.6 mV | 16.28 ft | 200.00 ml/min |
| 11/14/2023 4:13 PM | 20:00 | 6.98 pH | 19.97 °C | 805.83 µS/cm | 0.08 mg/L | 285.00 NTU | -1.2 mV | 16.28 ft | 200.00 ml/min |
| 11/14/2023 4:18 PM | 25:00 | 6.98 pH | 19.96 °C | 805.95 µS/cm | 0.07 mg/L | 165.00 NTU | -0.7 mV | 16.28 ft | 200.00 ml/min |
| 11/14/2023 4:23 PM | 30:00 | 6.92 pH | 20.02 °C | 738.20 µS/cm | 0.10 mg/L | 218.00 NTU | -7.7 mV | 16.28 ft | 200.00 ml/min |
| 11/14/2023 4:28 PM | 35:00 | 6.95 pH | 19.93 °C | 815.54 µS/cm | 0.06 mg/L | 254.00 NTU | -2.0 mV | 16.28 ft | 200.00 ml/min |
| 11/14/2023 4:33 PM | 40:00 | 6.97 pH | 19.86 °C | 810.32 µS/cm | 0.06 mg/L | 256.00 NTU | -7.9 mV | 16.28 ft | 200.00 ml/min |
| 11/14/2023 4:38 PM | 45:00 | 6.98 pH | 19.79 °C | 790.18 µS/cm | 0.07 mg/L | 231.00 NTU | -3.0 mV | 16.28 ft | 100.00 ml/min |
| 11/14/2023 4:43 PM | 50:00 | 6.99 pH | 19.78 °C | 790.72 µS/cm | 0.08 mg/L | 204.00 NTU | -9.1 mV | 16.28 ft | 100.00 ml/min |
| 11/14/2023 4:48 PM | 55:00 | 6.98 pH | 19.71 °C | 793.44 µS/cm | 0.07 mg/L | 176.00 NTU | -6.2 mV | 16.28 ft | 100.00 ml/min |
| 11/14/2023 4:53 PM | 01:00:00 | 6.98 pH | 19.75 °C | 794.47 µS/cm | 0.07 mg/L | 157.00 NTU | -7.7 mV | 16.28 ft | 100.00 ml/min |

| | | | | | | | | | |
|-----------------------|----------|---------|----------|--------------|-----------|------------|----------|----------|---------------|
| 11/14/2023 4:58 PM | 01:05:00 | 6.98 pH | 19.63 °C | 805.30 µS/cm | 0.06 mg/L | 137.00 NTU | -14.2 mV | 16.28 ft | 100.00 ml/min |
| 11/14/2023 5:03 PM | 01:10:00 | 6.98 pH | 19.58 °C | 804.92 µS/cm | 0.07 mg/L | -- | -9.9 mV | 16.28 ft | 100.00 ml/min |
| 11/14/2023 5:08 PM | 01:15:00 | 6.98 pH | 19.58 °C | 805.70 µS/cm | 0.07 mg/L | -- | -10.0 mV | 16.28 ft | 100.00 ml/min |
| 11/14/2023 5:13 PM | 01:20:00 | 6.98 pH | 19.52 °C | 806.74 µS/cm | 0.07 mg/L | -- | -7.8 mV | 16.28 ft | 100.00 ml/min |
| 11/14/2023 5:18 PM | 01:25:00 | 6.98 pH | 19.40 °C | 805.83 µS/cm | 0.09 mg/L | -- | -6.7 mV | 16.28 ft | 100.00 ml/min |
| 11/14/2023 5:23 PM | 01:30:00 | 6.98 pH | 19.24 °C | 805.29 µS/cm | 0.11 mg/L | -- | -5.5 mV | 16.28 ft | 100.00 ml/min |
| 11/14/2023 5:28 PM | 01:35:00 | 6.99 pH | 19.04 °C | 806.51 µS/cm | 0.14 mg/L | -- | -4.1 mV | 16.28 ft | 100.00 ml/min |
| 11/14/2023 5:33 PM | 01:40:00 | 6.99 pH | 18.83 °C | 806.38 µS/cm | 0.17 mg/L | -- | -3.2 mV | 16.28 ft | 100.00 ml/min |
| 11/14/2023 5:38 PM | 01:45:00 | 6.99 pH | 18.81 °C | 773.72 µS/cm | 0.29 mg/L | 120.00 NTU | -17.6 mV | 16.28 ft | 100.00 ml/min |
| 11/14/2023 5:43 PM | 01:50:00 | 7.01 pH | 19.18 °C | 759.38 µS/cm | 0.09 mg/L | 96.80 NTU | -23.0 mV | 16.28 ft | 100.00 ml/min |
| 11/14/2023 5:48 PM | 01:55:00 | 6.99 pH | 19.16 °C | 793.05 µS/cm | 0.06 mg/L | 65.00 NTU | -14.7 mV | 16.28 ft | 100.00 ml/min |
| 11/14/2023 5:53 PM | 02:00:00 | 6.98 pH | 19.16 °C | 809.36 µS/cm | 0.06 mg/L | 64.30 NTU | -12.8 mV | 16.28 ft | 100.00 ml/min |
| 11/14/2023 5:58 PM | 02:05:00 | 6.98 pH | 19.07 °C | 813.75 µS/cm | 0.06 mg/L | 64.10 NTU | -12.9 mV | 16.28 ft | 100.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|-----------------------|
| HAM-PT-09 | Grab. Field filtered. |

Low-Flow Test Report:

Test Date / Time: 11/14/2023 10:10:13 AM

Project: GP-Plant Hammond

Operator Name: Zain Webb

| | | |
|--|--|--|
| Location Name: PT-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.40 ft Total Depth: 27.40 ft Initial Depth to Water: 16.34 ft | Pump Type: Bladder Pump Tubing Type: Polyethylene Pump Intake From TOC: 22.40 ft Estimated Total Volume Pumped: 51 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.02 ft | Instrument Used: Aqua TROLL 400 Serial Number: 843285 |
|--|--|--|

Test Notes:

Five bottles: App. III and IV (No RADs) and Major Ions.

Weather Conditions:

Clear, 60 degrees F.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|---------------------|--------------|---------|-------------|-----------------------|-------------------|------------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 11/14/2023 10:10 AM | 00:00 | 7.06 pH | 20.13 °C | 723.00 µS/cm | 2.90 mg/L | 184.00 NTU | -50.0 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 10:15 AM | 05:00 | 7.09 pH | 20.31 °C | 718.54 µS/cm | 2.89 mg/L | 217.00 NTU | -52.3 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 10:20 AM | 10:00 | 7.11 pH | 20.21 °C | 720.93 µS/cm | 3.10 mg/L | 236.00 NTU | -52.3 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 10:25 AM | 15:00 | 7.13 pH | 20.46 °C | 720.57 µS/cm | 3.07 mg/L | 221.00 NTU | -50.4 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 10:30 AM | 20:00 | 7.13 pH | 20.55 °C | 721.81 µS/cm | 2.91 mg/L | 224.00 NTU | -48.8 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 10:35 AM | 25:00 | 7.13 pH | 20.56 °C | 722.96 µS/cm | 2.96 mg/L | 203.00 NTU | -56.9 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 10:40 AM | 30:00 | 7.14 pH | 20.53 °C | 723.17 µS/cm | 2.88 mg/L | 183.00 NTU | -58.1 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 10:45 AM | 35:00 | 7.14 pH | 20.55 °C | 723.18 µS/cm | 2.90 mg/L | 145.00 NTU | -57.6 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 10:50 AM | 40:00 | 7.14 pH | 20.46 °C | 723.13 µS/cm | 2.91 mg/L | 121.00 NTU | -57.7 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 10:55 AM | 45:00 | 7.14 pH | 20.47 °C | 723.40 µS/cm | 2.84 mg/L | 112.00 NTU | -57.4 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 11:00 AM | 50:00 | 7.15 pH | 20.66 °C | 721.55 µS/cm | 2.85 mg/L | 89.50 NTU | -58.8 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 11:05 AM | 55:00 | 7.15 pH | 20.65 °C | 720.57 µS/cm | 2.84 mg/L | 77.20 NTU | -59.1 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 11:10 AM | 01:00:00 | 7.15 pH | 20.66 °C | 718.59 µS/cm | 2.83 mg/L | 73.60 NTU | -59.1 mV | 16.36 ft | 200.00 ml/min |

| | | | | | | | | | |
|------------------------|----------|---------|----------|--------------|-----------|-----------|----------|----------|---------------|
| 11/14/2023 11:15 AM | 01:05:00 | 7.16 pH | 20.64 °C | 717.70 µS/cm | 2.87 mg/L | 69.80 NTU | -59.5 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 11:20 AM | 01:10:00 | 7.15 pH | 20.76 °C | 716.63 µS/cm | 2.73 mg/L | 63.70 NTU | -50.3 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 11:25 AM | 01:15:00 | 7.15 pH | 20.85 °C | 715.16 µS/cm | 2.71 mg/L | 57.10 NTU | -49.6 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 11:30 AM | 01:20:00 | 7.15 pH | 20.82 °C | 714.75 µS/cm | 2.71 mg/L | 52.40 NTU | -59.4 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 11:35 AM | 01:25:00 | 7.16 pH | 20.60 °C | 716.47 µS/cm | 2.85 mg/L | 48.70 NTU | -51.1 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 11:40 AM | 01:30:00 | 7.15 pH | 20.56 °C | 717.68 µS/cm | 2.80 mg/L | 43.50 NTU | -57.6 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 11:45 AM | 01:35:00 | 7.15 pH | 20.51 °C | 715.46 µS/cm | 2.80 mg/L | 38.90 NTU | -59.4 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 11:50 AM | 01:40:00 | 7.15 pH | 20.51 °C | 715.72 µS/cm | 2.73 mg/L | 36.00 NTU | -58.9 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 11:55 AM | 01:45:00 | 7.15 pH | 20.42 °C | 715.01 µS/cm | 2.74 mg/L | 32.10 NTU | -50.6 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 12:00 PM | 01:50:00 | 7.16 pH | 20.28 °C | 714.07 µS/cm | 2.81 mg/L | 29.50 NTU | -59.2 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 12:05 PM | 01:55:00 | 7.15 pH | 20.29 °C | 715.60 µS/cm | 2.73 mg/L | 26.80 NTU | -58.5 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 12:10 PM | 02:00:00 | 7.15 pH | 20.32 °C | 714.97 µS/cm | 2.73 mg/L | 25.00 NTU | -59.1 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 12:15 PM | 02:05:00 | 7.16 pH | 20.20 °C | 717.27 µS/cm | 2.82 mg/L | 25.20 NTU | -50.5 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 12:20 PM | 02:10:00 | 7.16 pH | 20.17 °C | 716.90 µS/cm | 2.81 mg/L | 23.60 NTU | -49.8 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 12:25 PM | 02:15:00 | 7.16 pH | 20.13 °C | 717.12 µS/cm | 2.80 mg/L | 21.30 NTU | -50.2 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 12:30 PM | 02:20:00 | 7.16 pH | 20.16 °C | 716.77 µS/cm | 2.82 mg/L | 20.70 NTU | -58.8 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 12:35 PM | 02:25:00 | 7.16 pH | 20.42 °C | 711.41 µS/cm | 2.79 mg/L | 18.10 NTU | -58.6 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 12:40 PM | 02:30:00 | 7.16 pH | 20.38 °C | 709.41 µS/cm | 2.84 mg/L | 16.50 NTU | -59.4 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 12:45 PM | 02:35:00 | 7.16 pH | 20.50 °C | 710.45 µS/cm | 2.82 mg/L | 14.30 NTU | -50.5 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 12:50 PM | 02:40:00 | 7.16 pH | 20.65 °C | 708.61 µS/cm | 2.84 mg/L | 12.40 NTU | -58.9 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 12:55 PM | 02:45:00 | 7.16 pH | 20.64 °C | 708.97 µS/cm | 2.78 mg/L | 11.50 NTU | -58.8 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 1:00 PM | 02:50:00 | 7.17 pH | 20.64 °C | 707.88 µS/cm | 2.89 mg/L | 10.90 NTU | -59.0 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 1:05 PM | 02:55:00 | 7.16 pH | 20.56 °C | 707.30 µS/cm | 2.85 mg/L | 9.56 NTU | -50.3 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 1:10 PM | 03:00:00 | 7.16 pH | 20.54 °C | 709.75 µS/cm | 2.77 mg/L | 9.05 NTU | -50.1 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 1:15 PM | 03:05:00 | 7.16 pH | 20.51 °C | 713.00 µS/cm | 2.86 mg/L | 8.72 NTU | -49.0 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 1:20 PM | 03:10:00 | 7.16 pH | 20.49 °C | 711.84 µS/cm | 2.81 mg/L | 7.95 NTU | -49.7 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 1:25 PM | 03:15:00 | 7.17 pH | 20.51 °C | 709.49 µS/cm | 2.92 mg/L | 7.92 NTU | -58.4 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 1:30 PM | 03:20:00 | 7.16 pH | 20.64 °C | 710.81 µS/cm | 2.80 mg/L | 7.44 NTU | -49.5 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 1:35 PM | 03:25:00 | 7.17 pH | 20.64 °C | 709.32 µS/cm | 3.00 mg/L | 7.28 NTU | -51.8 mV | 16.36 ft | 200.00 ml/min |

| | | | | | | | | | |
|-----------------------|----------|---------|----------|--------------|-----------|----------|----------|----------|---------------|
| 11/14/2023 1:40 PM | 03:30:00 | 7.18 pH | 20.56 °C | 709.06 µS/cm | 3.01 mg/L | 7.18 NTU | -51.0 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 1:45 PM | 03:35:00 | 7.17 pH | 20.38 °C | 713.76 µS/cm | 2.93 mg/L | 6.00 NTU | -58.2 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 1:50 PM | 03:40:00 | 7.16 pH | 20.32 °C | 714.94 µS/cm | 2.81 mg/L | 6.59 NTU | -50.7 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 1:55 PM | 03:45:00 | 7.16 pH | 20.32 °C | 718.15 µS/cm | 2.83 mg/L | 5.92 NTU | -56.9 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 2:00 PM | 03:50:00 | 7.17 pH | 20.29 °C | 715.43 µS/cm | 2.93 mg/L | 5.46 NTU | -51.1 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 2:05 PM | 03:55:00 | 7.18 pH | 20.20 °C | 716.17 µS/cm | 3.05 mg/L | 5.07 NTU | -51.6 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 2:10 PM | 04:00:00 | 7.18 pH | 20.42 °C | 713.34 µS/cm | 3.00 mg/L | 5.61 NTU | -50.4 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 2:15 PM | 04:05:00 | 7.16 pH | 20.49 °C | 712.92 µS/cm | 2.80 mg/L | 4.80 NTU | -49.2 mV | 16.36 ft | 200.00 ml/min |
| 11/14/2023 2:20 PM | 04:10:00 | 7.16 pH | 20.60 °C | 713.27 µS/cm | 2.86 mg/L | 4.45 NTU | -50.9 mV | 16.36 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|---------------|--------------|
| HAM-PT-10 | Grab. |
| HAM-AP1-FD-01 | Grab. |

Low-Flow Test Report:

Test Date / Time: 11/21/2023 10:07:07 AM

Project: Plant Hammond

Operator Name: Elisabeth Russell

| | | |
|--|---|--|
| Location Name: PT-07 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 38.00 ft Total Depth: 48.00 ft Initial Depth to Water: 27.35 ft | Pump Type: Bladder Tubing Type: Polyethylene Pump Intake From TOC: 43.00 ft Estimated Total Volume Pumped: 27.2 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.09 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883533 |
|--|---|--|

Test Notes:

Five Bottles: App. III and IV (No RADS) and Major Ions

Fe: 3.5 mg/L

Weather Conditions:

Rainy, 60 degrees F.

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|------------------------|--------------|---------|-------------|-----------------------|-------------------|------------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 11/21/2023 10:07 AM | 00:00 | 6.84 pH | 19.15 °C | 748.51 µS/cm | 2.38 mg/L | 291.00 NTU | -59.0 mV | 27.32 ft | 200.00 ml/min |
| 11/21/2023 10:12 AM | 05:00 | 6.85 pH | 19.15 °C | 745.54 µS/cm | 2.20 mg/L | 162.00 NTU | -62.0 mV | 27.31 ft | 200.00 ml/min |
| 11/21/2023 10:17 AM | 10:00 | 6.86 pH | 19.10 °C | 747.55 µS/cm | 2.09 mg/L | 101.00 NTU | -76.3 mV | 27.29 ft | 200.00 ml/min |
| 11/21/2023 10:22 AM | 15:00 | 6.86 pH | 19.10 °C | 682.64 µS/cm | 2.14 mg/L | 103.00 NTU | -66.2 mV | 27.28 ft | 200.00 ml/min |
| 11/21/2023 10:27 AM | 20:00 | 6.87 pH | 19.10 °C | 747.85 µS/cm | 2.18 mg/L | 97.80 NTU | -67.3 mV | 27.28 ft | 200.00 ml/min |
| 11/21/2023 10:32 AM | 25:00 | 6.87 pH | 19.10 °C | 745.71 µS/cm | 2.18 mg/L | 60.20 NTU | -68.1 mV | 27.28 ft | 200.00 ml/min |
| 11/21/2023 10:37 AM | 30:00 | 6.87 pH | 19.13 °C | 743.90 µS/cm | 2.12 mg/L | 49.30 NTU | -79.6 mV | 27.26 ft | 200.00 ml/min |
| 11/21/2023 10:42 AM | 35:00 | 6.88 pH | 19.15 °C | 746.55 µS/cm | 2.16 mg/L | 38.20 NTU | -70.1 mV | 27.26 ft | 200.00 ml/min |
| 11/21/2023 10:47 AM | 40:00 | 6.88 pH | 19.15 °C | 746.83 µS/cm | 2.12 mg/L | 33.00 NTU | -80.7 mV | 27.26 ft | 200.00 ml/min |
| 11/21/2023 10:52 AM | 45:00 | 6.88 pH | 19.14 °C | 747.00 µS/cm | 2.06 mg/L | 26.10 NTU | -71.6 mV | 27.25 ft | 200.00 ml/min |
| 11/21/2023 10:57 AM | 50:00 | 6.88 pH | 19.13 °C | 746.90 µS/cm | 2.10 mg/L | 20.50 NTU | -81.3 mV | 27.25 ft | 200.00 ml/min |
| 11/21/2023 11:02 AM | 55:00 | 6.88 pH | 19.14 °C | 744.65 µS/cm | 2.12 mg/L | 14.60 NTU | -73.1 mV | 27.25 ft | 200.00 ml/min |
| 11/21/2023 11:07 AM | 01:00:00 | 6.88 pH | 19.17 °C | 746.80 µS/cm | 2.14 mg/L | 13.90 NTU | -73.0 mV | 27.26 ft | 200.00 ml/min |

| | | | | | | | | | |
|------------------------|----------|---------|----------|--------------|-----------|-----------|----------|----------|---------------|
| 11/21/2023 11:12 AM | 01:05:00 | 6.88 pH | 19.15 °C | 746.77 µS/cm | 2.26 mg/L | 14.10 NTU | -73.9 mV | 27.26 ft | 200.00 ml/min |
| 11/21/2023 11:17 AM | 01:10:00 | 6.89 pH | 19.16 °C | 746.54 µS/cm | 2.22 mg/L | 13.20 NTU | -82.0 mV | 27.26 ft | 200.00 ml/min |
| 11/21/2023 11:22 AM | 01:15:00 | 6.89 pH | 19.15 °C | 746.67 µS/cm | 2.39 mg/L | 11.70 NTU | -74.8 mV | 27.26 ft | 200.00 ml/min |
| 11/21/2023 11:27 AM | 01:20:00 | 6.89 pH | 19.15 °C | 746.87 µS/cm | 2.45 mg/L | 10.40 NTU | -75.1 mV | 27.26 ft | 200.00 ml/min |
| 11/21/2023 11:32 AM | 01:25:00 | 6.89 pH | 19.15 °C | 746.60 µS/cm | 2.54 mg/L | 8.46 NTU | -75.4 mV | 27.26 ft | 200.00 ml/min |
| 11/21/2023 11:37 AM | 01:30:00 | 6.89 pH | 19.16 °C | 746.51 µS/cm | 2.36 mg/L | 9.46 NTU | -75.5 mV | 27.26 ft | 200.00 ml/min |
| 11/21/2023 11:42 AM | 01:35:00 | 6.89 pH | 19.17 °C | 746.46 µS/cm | 2.39 mg/L | 8.72 NTU | -82.9 mV | 27.26 ft | 200.00 ml/min |
| 11/21/2023 11:47 AM | 01:40:00 | 6.89 pH | 19.19 °C | 746.21 µS/cm | 2.43 mg/L | 6.08 NTU | -76.6 mV | 27.26 ft | 200.00 ml/min |
| 11/21/2023 11:52 AM | 01:45:00 | 6.89 pH | 19.18 °C | 743.14 µS/cm | 2.37 mg/L | 5.07 NTU | -76.7 mV | 27.26 ft | 200.00 ml/min |
| 11/21/2023 11:57 AM | 01:50:00 | 6.89 pH | 19.17 °C | 745.87 µS/cm | 2.52 mg/L | 4.92 NTU | -77.5 mV | 27.26 ft | 200.00 ml/min |
| 11/21/2023 12:02 PM | 01:55:00 | 6.89 pH | 19.16 °C | 745.43 µS/cm | 2.55 mg/L | 4.90 NTU | -77.7 mV | 27.26 ft | 200.00 ml/min |
| 11/21/2023 12:04 PM | 01:57:41 | 6.89 pH | 19.16 °C | 746.39 µS/cm | 2.44 mg/L | 4.20 NTU | -78.3 mV | 27.26 ft | 200.00 ml/min |
| 11/21/2023 12:09 PM | 02:02:41 | 6.89 pH | 19.18 °C | 745.93 µS/cm | 2.36 mg/L | 4.17 NTU | -78.2 mV | 27.26 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-07 | Grab. |

Low-Flow Test Report:

Test Date / Time: 11/21/2023 1:37:21 PM

Project: Plant Hammond

Operator Name: Elisabeth Russell

| | | |
|--|--|--|
| Location Name: PT-08 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.00 ft Total Depth: 42.00 ft Initial Depth to Water: 26.44 ft | Pump Type: Bladder Tubing Type: Polyethylene Pump Intake From TOC: 37.00 ft Estimated Total Volume Pumped: 11.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.03 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883533 |
|--|--|--|

Test Notes:

Five Bottles: App III AND IV (No RADs) and Major Ions

Fe: 7.0 mg/L

Weather Conditions:

Rainy, 60 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|--------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 11/21/2023 1:37 PM | 00:00 | 6.83 pH | 18.97 °C | 732.45 µS/cm | 1.32 mg/L | 18.00 NTU | -52.2 mV | 26.44 ft | 150.00 ml/min |
| 11/21/2023 1:42 PM | 05:00 | 6.82 pH | 18.97 °C | 684.25 µS/cm | 1.33 mg/L | 26.80 NTU | -52.3 mV | 26.42 ft | 150.00 ml/min |
| 11/21/2023 1:47 PM | 10:00 | 6.83 pH | 18.97 °C | 733.97 µS/cm | 1.52 mg/L | 23.60 NTU | -52.4 mV | 26.42 ft | 150.00 ml/min |
| 11/21/2023 1:52 PM | 15:00 | 6.83 pH | 18.97 °C | 595.78 µS/cm | 1.38 mg/L | 15.00 NTU | -52.6 mV | 26.43 ft | 150.00 ml/min |
| 11/21/2023 1:57 PM | 20:00 | 6.84 pH | 18.97 °C | 686.24 µS/cm | 1.49 mg/L | 10.80 NTU | -55.4 mV | 26.45 ft | 150.00 ml/min |
| 11/21/2023 2:02 PM | 25:00 | 6.84 pH | 18.99 °C | 734.15 µS/cm | 1.68 mg/L | 7.51 NTU | -59.0 mV | 26.46 ft | 150.00 ml/min |
| 11/21/2023 2:07 PM | 30:00 | 6.83 pH | 18.99 °C | 769.28 µS/cm | 1.37 mg/L | 6.39 NTU | -52.7 mV | 26.46 ft | 150.00 ml/min |
| 11/21/2023 2:12 PM | 35:00 | 6.83 pH | 18.97 °C | 735.52 µS/cm | 1.48 mg/L | 4.82 NTU | -51.1 mV | 26.46 ft | 150.00 ml/min |
| 11/21/2023 2:17 PM | 40:00 | 6.81 pH | 18.98 °C | 735.32 µS/cm | 0.06 mg/L | 3.82 NTU | -50.0 mV | 26.46 ft | 150.00 ml/min |
| 11/21/2023 2:22 PM | 45:00 | 6.83 pH | 18.98 °C | 701.70 µS/cm | 1.30 mg/L | 3.74 NTU | -56.1 mV | 26.47 ft | 150.00 ml/min |
| 11/21/2023 2:27 PM | 50:00 | 6.84 pH | 18.99 °C | 734.95 µS/cm | 1.39 mg/L | 4.60 NTU | -58.0 mV | 26.47 ft | 150.00 ml/min |
| 11/21/2023 2:32 PM | 55:00 | 6.83 pH | 19.00 °C | 734.64 µS/cm | 1.51 mg/L | 4.04 NTU | -51.0 mV | 26.47 ft | 150.00 ml/min |
| 11/21/2023 2:37 PM | 01:00:00 | 6.83 pH | 18.99 °C | 749.39 µS/cm | 1.33 mg/L | 4.12 NTU | -50.5 mV | 26.47 ft | 150.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HAM-PT-08 | Grab. |

Calibration Reports

July 2023

EQUIPMENT CALIBRATION LOG

Field Technician: Alana Neely

Date: 2/13/23

Time (start): 0850

Time (finish): 0910

smarTroll SN: 884187

Turbidity Meter Type: LaMotte 2020we

SN: 7009-1416

Weather Conditions: 73-91, sunny

Facility and Unit: Piant+Hammond

Project No.: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|--------------------|---|------------|
| Specific Conductance (µS/cm) | 22250153 11/23 | 25.72 | 4490 | 4122.4 | 4487.6 | +/- 5 % | <input checked="" type="radio"/> Yes No | |
| pH (4) | | | 4.00 | 4.02 | 4.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (4) check | - | - | 4.00 | - | - | +/- 0.1 SU | Yes No | |
| pH (7) | 2216893 11/23 | 25.7 | 7.00 | 7.35 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (7) check | | | - | - | 7.00 | - | - | +/- 0.1 SU |
| pH (10) | 21320202 12/23 | 25.5 | 10.00 | 10.3 | 10.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (10) check | | | - | - | 10.00 | - | - | +/- 0.1 SU |
| ORP (mV) | 21390144 11/23 | 24.72 | 228 | 215.4 | 227.7 | +/- 20mV | <input checked="" type="radio"/> Yes No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 101.11% | 100.00% | +/- 6 % saturation | <input checked="" type="radio"/> Yes No | |
| Turbidity 0 NTU | | | 0 | 0.20 | 0.00 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 1 NTU | | | 1.00 | 0.71 | 0.81 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 10 NTU | | | 10.00 | 11.30 | 9.99 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |

August 2023

EQUIPMENT CALIBRATION LOG

Field Technician: C. CAIN

Date: 8/9/23

Time (start): 0815

Time (finish): 0845

smarTroll SN: 883553

Turbidity Meter Type: Laette 2001

SN: 4121-7623

Weather Conditions: Fog 68

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|------------------------|-----------------|------------------|-----------------------|--|----------|
| Specific Conductance (µS/cm) | 22250153 11/23 | 22.78 | 4573.5 4490 | 4573.5 | 4490 | +/- 5 % | <input checked="" type="checkbox"/> Yes No | |
| pH (4) | | | 4.0 | 4.07 | 4.0 | +/- 0.1 SU | Yes No | |
| Mid-Day pH (4) check | // " | | 4.0 | 4.02 | | +/- 0.1 SU | Yes No | |
| pH (7) | 2216893 11/29 | 23.43 | 7.0 | 7.05 | 7.0 | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes No | |
| Mid-Day pH (7) check | // " | | 7.0 | 7.0 | | +/- 0.1 SU | Yes No | |
| pH (10) | 22110130 8/23 | 23.75 | 10.0 | 10.05 | 10 | +/- 0.1 SU | <input checked="" type="checkbox"/> Yes No | |
| Mid-Day pH (10) check | // " | | 10.0 | 10.03 | | +/- 0.1 SU | Yes No | |
| ORP (mV) | 21390144 11/23 | 23.81 | 228 | 227.1 | 228 | +/- 20mV | <input checked="" type="checkbox"/> Yes No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 95.23 | 100 | +/- 6 % saturation | <input checked="" type="checkbox"/> Yes No | |
| Turbidity 0 NTU | | | 0 | 0.00 | 0.00 | +/- 0.5 NTU | <input checked="" type="checkbox"/> Yes No | |
| Turbidity 1 NTU | | | 1 | 1.43 | 1.13 | +/- 0.5 NTU | <input checked="" type="checkbox"/> Yes No | |
| Turbidity 10 NTU | | | 10 | 10.75 | 10 | +/- 0.5 NTU | <input checked="" type="checkbox"/> Yes No | |

EQUIPMENT CALIBRATION LOG

Field Technician: A. Szewast

Date: 8/9/2023

Time (start): 1145

Time (finish): 1205

smarTroll SN: 883530

Turbidity Meter Type: LaMotte 2020t

SN: 4739-2623

Weather Conditions: Partly cloudy, 73°F

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|------------------------------|-----------------|------------------|-----------------------|---|----------|
| Specific Conductance (µS/cm) | 22250153 | 24.50 | 4490 | 4250.9 | 4490.0 | +/- 5 % | <input checked="" type="radio"/> Yes No | |
| pH (4) | 11/2023 | | 4.00 | 4.45 | 4.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (4) check | | | | | | +/- 0.1 SU | Yes No | |
| pH (7) | 2216893 11/2023 | 24.85 | 7.00 | 7.32 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (7) check | | | | | | +/- 0.1 SU | Yes No | |
| pH (10) | 21320202 12/2023 | 25.05 | 10.00 | 10.54 | 10.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (10) check | | | | | | +/- 0.1 SU | Yes No | |
| ORP (mV) | 21390144 11/2023 | 25.06 | 228.0 | 225.9 | 228.0 | +/- 20mV | <input checked="" type="radio"/> Yes No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100.00 101.24 8-1-2023 | 101.24 | 100.0 | +/- 6 % saturation | <input checked="" type="radio"/> Yes No | |
| Turbidity 0 NTU | | | 0.00 | 0.00 | — | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 1 NTU | | | 1.00 | 1.08 | — | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 10 NTU | | | 10.00 | 10.7 | 9.59 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |

EQUIPMENT CALIBRATION LOG

Field Technician: Elisabeth McDonnell

Date: 8/9/23

Time (start): 830

Time (finish): 850

smarTroll SN: 989630

Turbidity Meter Type: La Motte 2020t

SN: 4109-2623

Weather Conditions: 70, cloudy

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|-----------------------|---|----------|
| Specific Conductance (µS/cm) | 22250153 11/23 | 23.18 | | | | +/- 5 % | Yes No | |
| pH (4) | | | 4.00 | 3.99 | 4.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (4) check | ↓ | | | | | +/- 0.1 SU | Yes No | |
| pH (7) | 2216893 11/23 | 23.48 | 7.0 | 6.85 | 7.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (7) check | | | ↓ | | | | +/- 0.1 SU | Yes No |
| pH (10) | 21320202 12/23 | 23.70 | 10.0 | 10.0 | 10.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Mid-Day pH (10) check | | | ↓ | | | | +/- 0.1 SU | Yes No |
| ORP (mV) | 21390149 11/23 | 23.85 | 228 | 230.90 | 228 | +/- 20mV | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100% | 102.36% | 100% | +/- 6 % saturation | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 0 NTU | | | 0.0 | 0.0 | 0.0 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 1 NTU | | | 1.0 | 1.0 | 1.0 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| Turbidity 10 NTU | | | 10.0 | 11.1 | 10.4 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |

EQUIPMENT CALIBRATION LOG

Field Technician: Thomas Kesler

Date: 8/14/23

Time (start): 0800

Time (finish): 0825

smarTroll SN: 850729

Turbidity Meter Type: LeMotte 2020me

SN: 1475-21011

Weather Conditions: Partly 75°

Facility and Unit: Plant Hammond

Project No: GLCS81

Calibration log

| | Standard Lot # / Date of Expiration | Temp of Standard (°C) | Value of Standard | Initial Reading | Post-Cal Reading | Acceptable Range | Pass? | Comments |
|---|-------------------------------------|-----------------------|-------------------|-----------------|------------------|--------------------|---|----------|
| Specific Conductance (µS/cm) | 2275053 11/23 | 21.91 | 4490 | 4562 | 4490 | +/- 5 % | <input checked="" type="radio"/> Yes No | |
| pH (4) | 11/23 | | 4 | 4.04 | 4.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (4) check | ↓ | 29 | 4 | 4.03 | — | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| pH (7) | 2216893 11/23 | 22.77 | 7.00 7.00 | 7.05 | 7.00 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (7) check | ↓ | 29 | 7 | 6.98 | — | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| pH (10) | 21380202 11/23 | 22.62 | 10.00 | 10.01 | 10.0 | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| Mid-Day pH (10) check | ↓ | 29 | 10 | 9.91 | — | +/- 0.1 SU | <input checked="" type="radio"/> Yes No | |
| ORP (mV) | 22760025 8/23 | | 228 | 227.7 | 228 | +/- 20mV | <input checked="" type="radio"/> Yes No | |
| DO (%) (1pt, 100% water saturated air cal) | | | 100 | 99.08 | 100 | +/- 6 % saturation | <input checked="" type="radio"/> Yes No | |
| Turbidity 0 NTU | | | 0 | .53 | 0 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 1 NTU | | | 1 | .56 | .93 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |
| Turbidity 10 NTU | | | 10 | 10.35 | 10.1 | +/- 0.5 NTU | <input checked="" type="radio"/> Yes No | |

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 8/30/23

Calibrated By: J. Kessler

Field Conditions: cloudy, 75°

| Instrument | Manufacturer/ Model | Serial Number |
|---------------------|---------------------|---------------|
| Water Quality Meter | | |
| Turbidity Meter | | |

| Calibration Standard Information | | | | |
|----------------------------------|----------|---------|--------------------|-------|
| Parameter | Standard | Lot # | Date of Expiration | Brand |
| Specific Conductance (µS/cm) | 4,490 | 2400044 | 5/24 | msi |
| pH (SU) | 4.00 | 2400044 | 5/24 | |
| pH (SU) | 7.00 | 2279039 | 4/24 | |
| pH (SU) | 10.00 | 2211056 | 4/24 | |
| D.O. (%) | N/A | | | |
| ORP (mV) | 228.0 | 2400288 | 4/24 | |

| Calibration | | | | | |
|------------------------------|-------------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | Time Finish | | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | 4490 | 22.8 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.0 | 22.75 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.01 | 22.98 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.00 | 23.11 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100 | | ± 10% | NA |
| ORP (mV) | 228.0 | 229 | 22.05 | ± 10 | EPA 2023 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 0 | 0 | | |
| | 1 | 1.00 | | |
| | 10 | 10.20 | | |

| Calibration Check | | | | | |
|------------------------------|-------------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | Time Finish | | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | 4300 | 23.5 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 6.3 | 23.8 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 9.2 | 22.9 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 11.5 | 24.1 | ± 0.1 | GWMP |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 0 | 0 | | |
| | 1 | 1.02 | | |
| | 10 | 9.91 | | |

Notes: meter does not seem to hold cal. suspect pH.

October 2023

Site Name: Mount Hammond

Field Instrumentation Calibration Form

Date: 10/3/2023

Calibrated By: f. Kessler

Field Conditions: clear, SS⁰

| Instrument | Manufacturer/ Model | Serial Number |
|---------------------|---------------------|---------------|
| Water Quality Meter | <u>insitu</u> | <u>850724</u> |
| Turbidity Meter | <u>hatch</u> | <u>761</u> |

| Calibration Standard Information | | | | |
|----------------------------------|----------|-----------------|--------------------|---------------|
| Parameter | Standard | Lot # | Date of Expiration | Brand |
| Specific Conductance (µS/cm) | 4,490 | <u>24000041</u> | <u>8/24</u> | <u>insitu</u> |
| pH (SU) | 4.00 | <u>22790134</u> | <u>4/24</u> | <u>insitu</u> |
| pH (SU) | 7.00 | <u>22790134</u> | <u>4/24</u> | <u>insitu</u> |
| pH (SU) | 10.00 | <u>22110130</u> | <u>4/24</u> | <u>insitu</u> |
| D.O. (%) | N/A | | | |
| ORP (mV) | 228.0 | <u>24000041</u> | <u>8/24</u> | <u>insitu</u> |

| Calibration | | | | | |
|------------------------------|----------|-------------------------|---------------------------------------|---------------------|-----------|
| Time Start <u>0820</u> | | Time Finish <u>0855</u> | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | <u>4490</u> | <u>18.97</u> | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | <u>4.00</u> | <u>18.72</u> | ± 0.1 | GWMP |
| pH (SU) | 7.00 | <u>7.00</u> | <u>19.27</u> | ± 0.1 | GWMP |
| pH (SU) | 10.00 | <u>10.00</u> | <u>19.30</u> | ± 0.1 | GWMP |
| D.O. (%) | N/A | <u>100</u> | <u>18.63</u> | ± 10% | NA |
| ORP (mV) | 228.0 | <u>228</u> | <u>18.51</u> | ± 10 | EPA 2023 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|------------|-------------------|---------------------|-----------|
| | <u>20</u> | <u>20.4</u> | ± 10% of standard | EPA 2023 |
| | <u>100</u> | <u>99.9</u> | | |
| | <u>500</u> | <u>761</u> | | |
| | | | | |

| Calibration Check | | | | | |
|------------------------------|----------|-------------------------|---------------------------------------|---------------------|-----------|
| Time Start <u>1310</u> | | Time Finish <u>1340</u> | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | <u>20.4</u> | <u>22.67</u> | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | <u>4.08</u> | <u>24.83</u> | ± 0.1 | GWMP |
| pH (SU) | 7.00 | <u>7.01</u> | <u>23.74</u> | ± 0.1 | GWMP |
| pH (SU) | 10.00 | <u>9.98</u> | <u>22.67</u> | ± 0.1 | GWMP |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|------------|-------------------|---------------------|-----------|
| | <u>20</u> | <u>20.1</u> | ± 10% of standard | EPA 2023 |
| | <u>100</u> | <u>101</u> | | |
| | <u>500</u> | <u>789</u> | | |
| | | | | |

Notes: Recal conductivity = 0
COND. 4265.0



Field Instrumentation Calibration Form

Site Name Plant Hammond

Date 10/03/2023

Field Conditions Sunny

Calibrated By M. Sadhasivan

| Instrument | Manufacturer/ Model | Serial Number |
|---------------------|---------------------|---------------|
| Water Quality Meter | <u>Aquatroll</u> | <u>850853</u> |
| Turbidity Meter | <u>N/A</u> | <u>N/A</u> |

| Calibration Standard Information | | | | |
|----------------------------------|----------|-----------------|--------------------|-------|
| Parameter | Standard | Lot # | Date of Expiration | Brand |
| Specific Conductance (µS/cm) | 4.490 | <u>2400044</u> | <u>05/2024</u> | - |
| pH (SU) | 4.00 | <u>2400044</u> | <u>05/2024</u> | - |
| pH (SU) | 7.00 | <u>22890139</u> | <u>04/2024</u> | - |
| pH (SU) | 10.00 | <u>21320202</u> | <u>12/2023</u> | - |
| D.O. (%) | N/A | <u>24 -</u> | - | - |
| ORP (mV) | 228.0 | <u>24002158</u> | <u>06/2024</u> | - |

| Calibration | | | | | |
|------------------------------|-------------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | Time Finish | | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4.490 | <u>4.90</u> | <u>17.26</u> | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | <u>4.00</u> | <u>17.07</u> | ± 0.1 | GWMP |
| pH (SU) | 7.00 | <u>7.00</u> | <u>18.06</u> | ± 0.1 | GWMP |
| pH (SU) | 10.00 | <u>10.00</u> | <u>17.99</u> | ± 0.1 | GWMP |
| D.O. (%) | N/A | <u>100%</u> | - | ± 10% | NA |
| ORP (mV) | 228.0 | <u>228</u> | <u>18.21</u> | ± 10 | EPA 2023 |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|---------------------------------|---------------------------------|---------------------|-----------|
| Turbidity (NTU) | | | ± 10% of standard | EPA 2023 |
| | | | | |
| | | | | |

| Calibration Check | | | | | |
|------------------------------|-------------|---------------------------------|---------------------------------------|---------------------|-----------|
| Time Start | Time Finish | | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4.490 | | | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | | | ± 0.1 | GWMP |
| pH (SU) | 7.00 | | | ± 0.1 | GWMP |
| pH (SU) | 10.00 | | | ± 0.1 | GWMP |

| | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|---------------------------------|---------------------------------|---------------------|-----------|
| Turbidity (NTU) | | | ± 10% of standard | EPA 2023 |
| | | | | |
| | | | | |

Notes

Calibrated By: t. Hessler

Field Conditions: clear SO"

| Instrument | Manufacturer/ Model | Serial Number |
|---------------------|---------------------|------------------|
| Water Quality Meter | <u>241066044</u> | <u>283561</u> |
| Turbidity Meter | <u>10 mnt e</u> | <u>2754-2617</u> |

| Calibration Standard Information | | | | |
|----------------------------------|----------|------------------|--------------------|----------------|
| Parameter | Standard | Lot # | Date of Expiration | Brand |
| Specific Conductance (µS/cm) | 4.490 | <u>241066044</u> | <u>5/24</u> | <u>ins. lu</u> |
| pH (SU) | 4.00 | <u>↓</u> | <u>↓</u> | |
| pH (SU) | 7.00 | <u>22290139</u> | <u>4/24</u> | |
| pH (SU) | 10.00 | <u>27110130</u> | <u>4/17 4</u> | |
| D.O. (%) | N/A | | | |
| ORP (mV) | 228.0 | <u>24100858</u> | <u>2/24</u> | |

| Calibration | | | | | |
|------------------------------|-------------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | Time Finish | | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4.490 | <u>4490</u> | <u>17.41</u> | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | <u>4</u> | <u>17.51</u> | ± 0.1 | GWMP |
| pH (SU) | 7.00 | <u>7.0</u> | <u>17.63</u> | ± 0.1 | GWMP |
| pH (SU) | 10.00 | <u>10.0</u> | <u>17.54</u> | ± 0.1 | GWMP |
| D.O. (%) | N/A | <u>100</u> | <u>100</u> | ± 10% | NA |
| ORP (mV) | 228.0 | <u>228</u> | <u>17.52</u> | ± 10 | EPA 2023 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|-----------|-------------------|---------------------|-----------|
| | <u>0</u> | <u>0</u> | | |
| | <u>1</u> | <u>0.99</u> | | |
| | <u>10</u> | <u>9.87</u> | | |

| Calibration Check | | | | | |
|------------------------------|-------------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | Time Finish | | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4.490 | <u>3777</u> | <u>29.29</u> | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | <u>6.96</u> | <u>29.79</u> | ± 0.1 | GWMP |
| pH (SU) | 7.00 | <u>10.12</u> | <u>29.50</u> | ± 0.1 | GWMP |
| pH (SU) | 10.00 | <u>17.00</u> | <u>29.47</u> | ± 0.1 | GWMP |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|-----------|-------------------|---------------------|-----------|
| | <u>0</u> | <u>0</u> | | |
| | <u>1</u> | <u>1.05</u> | | |
| | <u>10</u> | <u>10.00</u> | | |

Notes: Recal pH / cond - Replace pH Ref. Solution

cond = 4490

pH4 = 4.0

pH7 = 7.0

pH10 = 10.0

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 10-17

Calibrated By: Zain Webb

Field Conditions: Clear. 50°F

| Instrument | Manufacturer/ Model | Serial Number |
|---------------------|---------------------|---------------|
| Water Quality Meter | ApnaTroll 400 | 884189 |
| Turbidity Meter | LaMotte 2020t | 4104-2623 |

| Calibration Standard Information | | | | |
|----------------------------------|----------|----------|--------------------|-------|
| Parameter | Standard | Lot # | Date of Expiration | Brand |
| Specific Conductance (µS/cm) | 4,490 | 24000044 | 05/24 | AIR |
| pH (SU) | 4.00 | 24000044 | 05/24 | AIR |
| pH (SU) | 7.00 | 22240139 | 04/24 | AIR |
| pH (SU) | 10.00 | 2210130 | 04/24 | AIR |
| D.O. (%) | N/A | | | - |
| ORP (mV) | 228.0 | 24002258 | 06/24 | AIR |

| Calibration | | | | | |
|------------------------------|-------------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | Time Finish | | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | 4490 | 14.75 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | 4.00 | 14.22 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | 7.00 | 14.47 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | 10.00 | 15.25 | ± 0.1 | GWMP |
| D.O. (%) | N/A | 100.5 | 18.69 | ± 10% | NA |
| ORP (mV) | 228.0 | 228 | 18.14 | ± 10 | EPA 2023 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 0 | 0.00 | | |
| | 1 | 1.03 | | |
| | 10 | 9.9 | | |

| Calibration Check | | | | | |
|------------------------------|-------------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | Time Finish | | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | — | — | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | — | — | ± 0.1 | GWMP |
| pH (SU) | 7.00 | — | — | ± 0.1 | GWMP |
| pH (SU) | 10.00 | — | — | ± 0.1 | GWMP |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | — | — | | |
| | — | — | | |
| | — | — | | |

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 10-17

Calibrated By: Hudson K.

Field Conditions: Clear, 50°F

| Instrument | Manufacturer/ Model | Serial Number |
|---------------------|-----------------------|------------------|
| Water Quality Meter | <u>Aqua Troll 400</u> | <u>850724</u> |
| Turbidity Meter | <u>LaMotte 2010a</u> | <u>1475-4011</u> |

| Calibration Standard Information | | | | |
|----------------------------------|----------|-----------------|--------------------|------------|
| Parameter | Standard | Lot # | Date of Expiration | Brand |
| Specific Conductance (µS/cm) | 4.490 | <u>24000044</u> | <u>05/24</u> | <u>AIR</u> |
| pH (SU) | 4.00 | <u>24000044</u> | <u>05/24</u> | <u>AIR</u> |
| pH (SU) | 7.00 | <u>22280139</u> | <u>04/24</u> | <u>AIR</u> |
| pH (SU) | 10.00 | <u>22110130</u> | <u>04/24</u> | <u>AIR</u> |
| D.O. (%) | N/A | - | - | - |
| ORP (mV) | 228.0 | <u>14002258</u> | <u>06/24</u> | <u>AIR</u> |

| Calibration | | | | | |
|------------------------------|-------------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | Time Finish | | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4.490 | <u>4490</u> | <u>14.7</u> | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | <u>4.00</u> | <u>14.87</u> | ± 0.1 | GWMP |
| pH (SU) | 7.00 | <u>7.00</u> | <u>14.68</u> | ± 0.1 | GWMP |
| pH (SU) | 10.00 | <u>10.00</u> | <u>15.03</u> | ± 0.1 | GWMP |
| D.O. (%) | N/A | <u>100.1</u> | <u>10.01</u> | ± 10% | NA |
| ORP (mV) | 228.0 | <u>228</u> | <u>14.91</u> | ± 10 | EPA 2023 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|-------------|-------------------|---------------------|-----------|
| | <u>0</u> | | | |
| | <u>1.10</u> | <u>0.98</u> | ± 10% of standard | EPA 2023 |
| | <u>1.0</u> | <u>0.93</u> | | |

| Calibration Check | | | | | |
|------------------------------|-------------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | Time Finish | | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4.490 | _____ | _____ | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | _____ | _____ | ± 0.1 | GWMP |
| pH (SU) | 7.00 | _____ | _____ | ± 0.1 | GWMP |
| pH (SU) | 10.00 | _____ | _____ | ± 0.1 | GWMP |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | _____ | _____ | | |
| | _____ | _____ | ± 10% of standard | EPA 2023 |
| | _____ | _____ | | |

Notes:

Site Name: Hammond (AP-1, AP-2)

Field Instrumentation Calibration Form

Date: 10/24/23

Calibrated By: Alex Brown

Field Conditions: SOP Sunny

| Instrument | Manufacturer/ Model | Serial Number |
|---------------------|---------------------------|------------------|
| Water Quality Meter | <u>In Situ / Hydrolab</u> | <u>952627</u> |
| Turbidity Meter | <u>LaMotte 2020</u> | <u>1511-4111</u> |

| Calibration Standard Information | | | | |
|----------------------------------|----------|-----------------|--------------------|----------------------------------|
| Parameter | Standard | Lot # | Date of Expiration | Brand |
| Specific Conductance (µS/cm) | 4.490 | <u>24000044</u> | <u>5/24</u> | <u>Autorcal</u> <u>ProCal</u> |
| pH (SU) | 4.00 | <u>24000044</u> | <u>5/24</u> | |
| pH (SU) | 7.00 | <u>22290139</u> | <u>04/24</u> | |
| pH (SU) | 10.00 | <u>22110130</u> | <u>04/24</u> | |
| D.O. (%) | N/A | | | |
| ORP (mV) | 228.0 | <u>24002258</u> | <u>06/24</u> | |

| Calibration | | | | | |
|------------------------------|-------------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | Time Finish | | | | |
| <u>0810</u> | <u>0840</u> | | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4.490 | <u>4490</u> | <u>17.16</u> | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | <u>4.00</u> | <u>17.07</u> | ± 0.1 | GWMP |
| pH (SU) | 7.00 | <u>7.00</u> | <u>17.41</u> | ± 0.1 | GWMP |
| pH (SU) | 10.00 | <u>10.00</u> | <u>17.74</u> | ± 0.1 | GWMP |
| D.O. (%) | N/A | <u>106.7</u> | <u>16.51</u> | ± 10% | NA |
| ORP (mV) | 228.0 | <u>228.0</u> | <u>17.66</u> | ± 10 | EPA 2023 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|--------------|-------------------|---------------------|-----------|
| | <u>1.00</u> | <u>1.01</u> | ± 10% of standard | EPA 2023 |
| | <u>10.00</u> | <u>10.00</u> | | |
| | <u>0</u> | <u>0</u> | | |

| Calibration Check | | | | | |
|------------------------------|-------------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | Time Finish | | | | |
| <u>1430</u> | <u>1445</u> | | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4.490 | <u>4490</u> | <u>23.43</u> | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | <u>4.00</u> | <u>23.02</u> | ± 0.1 | GWMP |
| pH (SU) | 7.00 | <u>7.00</u> | <u>23.82</u> | ± 0.1 | GWMP |
| pH (SU) | 10.00 | <u>10.00</u> | <u>23.78</u> | ± 0.1 | GWMP |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|--------------|-------------------|---------------------|-----------|
| | <u>11.00</u> | <u>1.00</u> | ± 10% of standard | EPA 2023 |
| | <u>10.00</u> | <u>10.00</u> | | |
| | <u>0</u> | <u>0</u> | | |

Notes:

Site Name: Hammond

Field Instrumentation Calibration Form

Date: 10-31-23

Calibrated By: Alan Webb

Field Conditions: Cloudy, 45°F

| Instrument | Manufacturer/ Model | Serial Number |
|---------------------|---------------------|------------------|
| Water Quality Meter | <u>HANNA HI9142</u> | <u>B73593</u> |
| Turbidity Meter | <u>HANNA 21002</u> | <u>220900086</u> |

| Calibration Standard Information | | | | |
|----------------------------------|----------|-----------------|--------------------|-------|
| Parameter | Standard | Lot # | Date of Expiration | Brand |
| Specific Conductance (µS/cm) | 4,490 | <u>2400074</u> | <u>05/24</u> | AIR |
| pH (SU) | 4.00 | ↓ | ↓ | |
| pH (SU) | 7.00 | <u>22290139</u> | <u>04/24</u> | |
| pH (SU) | 10.00 | <u>22110130</u> | <u>04/24</u> | |
| D.O. (%) | N/A | — | — | |
| ORP (mV) | 228.0 | <u>24002258</u> | <u>06/24</u> | |

| Calibration | | | | | |
|------------------------------|----------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | | Time Finish | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | <u>4490</u> | <u>13.31</u> | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | <u>4.00</u> | <u>13.53</u> | ± 0.1 | GWMP |
| pH (SU) | 7.00 | <u>7.00</u> | <u>14.24</u> | ± 0.1 | GWMP |
| pH (SU) | 10.00 | <u>10.00</u> | <u>15.35</u> | ± 0.1 | GWMP |
| D.O. (%) | N/A | — | — | ± 10% | NA |
| ORP (mV) | 228.0 | <u>228</u> | <u>15.12</u> | ± 10 | EPA 2023 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|------------|-------------------|---------------------|-----------|
| | <u>10</u> | <u>10</u> | | |
| | <u>20</u> | <u>20</u> | | |
| | <u>100</u> | <u>100</u> | | |
| | <u>800</u> | <u>800</u> | | |
| | | ± 10% of standard | EPA 2023 | |

| Calibration Check | | | | | |
|------------------------------|----------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | | Time Finish | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | <u>4490</u> | <u>17.78</u> | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | <u>4.00</u> | <u>16.07</u> | ± 0.1 | GWMP |
| pH (SU) | 7.00 | <u>7.00</u> | <u>16.71</u> | ± 0.1 | GWMP |
| pH (SU) | 10.00 | <u>10.00</u> | <u>16.58</u> | ± 0.1 | GWMP |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|------------|-------------------|---------------------|-----------|
| | <u>10</u> | <u>10</u> | | |
| | <u>20</u> | <u>20</u> | | |
| | <u>100</u> | <u>100</u> | | |
| | <u>800</u> | <u>800</u> | | |
| | | ± 10% of standard | EPA 2023 | |

Notes

Site Name Plant Hammond

Field Instrumentation Calibration Form

Date 10/31/2023

Calibrated By Elisabeth Russell

Field Conditions cold, cloudy

| Instrument | Manufacturer/ Model | Serial Number |
|---------------------|---------------------|---------------|
| Water Quality Meter | INSTRUMENTAL | 40980712 |
| Turbidity Meter | HACH 2100Q | 220900000344 |

| Calibration Standard Information | | | | |
|----------------------------------|----------|----------|--------------------|-------|
| Parameter | Standard | Lot # | Date of Expiration | Brand |
| Specific Conductance (µS/cm) | 4,490 | 24000094 | 5/2024 | AIR |
| pH (SU) | 4.00 | 24000044 | 5/2024 | AIR |
| pH (SU) | 7.00 | 22290139 | 4/2024 | AIR |
| pH (SU) | 10.00 | 22110130 | 4/2024 | AIR |
| D.O. (%) | N/A | N/A | N/A | AIR |
| ORP (mV) | 228.0 | 24002258 | 6/2024 | AIR |

| Calibration | | | | | |
|------------------------------|--------------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | Time Finish | | | | |
| <u>10:20</u> | <u>10:50</u> | <u>11:20</u> | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | <u>4490</u> | <u>15.52</u> | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | <u>4.0</u> | <u>14.81</u> | ± 0.1 | GWMP |
| pH (SU) | 7.00 | <u>7.0</u> | <u>15.52</u> | ± 0.1 | GWMP |
| pH (SU) | 10.00 | <u>10.0</u> | <u>15.63</u> | ± 0.1 | GWMP |
| D.O. (%) | N/A | <u>100.1</u> | <u>15.22</u> | ± 10% | NA |
| ORP (mV) | 228.0 | <u>228</u> | <u>15.52</u> | ± 10 | EPA 2023 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|--------------|-------------------|---------------------|-----------|
| | <u>10.0</u> | <u>10.9</u> | | |
| | <u>20.0</u> | <u>20.3</u> | | |
| | <u>100.0</u> | <u>101.6</u> | | |
| | <u>800.0</u> | <u>822.0</u> | | |
| | | | ± 10% of standard | EPA 2023 |

| Calibration Check | | | | | |
|------------------------------|-------------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | Time Finish | | | | |
| | | | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | <u>4490</u> | <u>22.57</u> | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | <u>4.00</u> | <u>22.60</u> | ± 0.1 | GWMP |
| pH (SU) | 7.00 | <u>7.00</u> | <u>21.28</u> | ± 0.1 | GWMP |
| pH (SU) | 10.00 | <u>10.00</u> | <u>20.17</u> | ± 0.1 | GWMP |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|---------------|-------------------|---------------------|-----------|
| | <u>10.0</u> | <u>10.7</u> | | |
| | <u>20.0</u> | <u>20.8</u> | | |
| | <u>100.0</u> | <u>103.0</u> | | |
| | <u>800.00</u> | <u>828.0</u> | | |
| | | | ± 10% of standard | EPA 2023 |

Notes:

November 2023

Site Name: Hammond

Field Instrumentation Calibration Form

24
Date: ~~11-23~~ 11-7-23

Calibrated By: Zain Webb

Field Conditions: Clear, 50°F

| Instrument | Manufacturer/ Model | Serial Number |
|---------------------|--------------------------------|--------------------|
| Water Quality Meter | <u>VanSitten AquaTroll 400</u> | <u>980712</u> |
| Turbidity Meter | <u>HACH 2100A</u> | <u>15030C09579</u> |

| Calibration Standard Information | | | | |
|----------------------------------|----------|-----------------|--------------------|------------|
| Parameter | Standard | Lot # | Date of Expiration | Brand |
| Specific Conductance (µS/cm) | 4,490 | <u>2400046</u> | <u>05/24</u> | <u>ATR</u> |
| pH (SU) | 4.00 | ↓ | ↓ | |
| pH (SU) | 7.00 | <u>2220139</u> | <u>04/24</u> | |
| pH (SU) | 10.00 | <u>22110130</u> | <u>04/24</u> | |
| D.O. (%) | N/A | <u>2</u> | | |
| ORP (mV) | 228.0 | <u>24002258</u> | <u>06/24</u> | ↓ |

| Calibration | | | | | |
|------------------------------|-------------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | Time Finish | | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | <u>4490</u> | <u>17.76</u> | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | <u>4.00</u> | <u>17.98</u> | ± 0.1 | GWMP |
| pH (SU) | 7.00 | <u>7.00</u> | <u>18.07</u> | ± 0.1 | GWMP |
| pH (SU) | 10.00 | <u>10.00</u> | <u>18.07</u> | ± 0.1 | GWMP |
| D.O. (%) | N/A | <u>100%</u> | <u>15.17</u> <u>17.48</u> | ± 10% | NA |
| ORP (mV) | 228.0 | <u>228.0</u> | <u>17.80</u> | ± 10 | EPA 2023 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | <u>10</u> | | |
| | 20 | <u>20</u> | | |
| | 100 | <u>100</u> | | |
| | 800 | <u>800</u> | | |
| | | ± 10% of standard | EPA 2023 | |

| Calibration Check | | | | | |
|------------------------------|-------------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | Time Finish | | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4,490 | <u>4490</u> | <u>21.84</u> | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | <u>4.00</u> | <u>22.87</u> | ± 0.1 | GWMP |
| pH (SU) | 7.00 | <u>7.00</u> | <u>21.27</u> | ± 0.1 | GWMP |
| pH (SU) | 10.00 | <u>10.00</u> | <u>20.78</u> | ± 0.1 | GWMP |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|----------|-------------------|---------------------|-----------|
| | 10 | <u>10</u> | | |
| | 20 | <u>20</u> | | |
| | 100 | <u>100</u> | | |
| | 800 | <u>800</u> | | |
| | | ± 10% of standard | EPA 2023 | |

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 11/14/23

Calibrated By: Zain Wobb

Field Conditions: Cloudy, 50°F

| Instrument | Manufacturer/ Model | Serial Number |
|---------------------|------------------------------|--------------------|
| Water Quality Meter | <u>DrSivya AquaTrak 4000</u> | <u>8463285</u> |
| Turbidity Meter | <u>Hach 2100B</u> | <u>22090000285</u> |

| Calibration Standard Information | | | | |
|----------------------------------|----------|-----------------|--------------------|------------|
| Parameter | Standard | Lot # | Date of Expiration | Brand |
| Specific Conductance (µS/cm) | 4.490 | <u>24000864</u> | <u>05/24</u> | <u>AKR</u> |
| pH (SU) | 4.00 | <u>22290139</u> | <u>04/24</u> | ↑ |
| pH (SU) | 7.00 | <u>22110130</u> | <u>04/24</u> | |
| D.O. (%) | N/A | | | ↓ |
| ORP (mV) | 228.0 | <u>24002258</u> | <u>06/24</u> | |

| Calibration | | | | | |
|------------------------------|-------------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | Time Finish | | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4.490 | <u>4.490</u> | <u>15.38</u> | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | <u>4.00</u> | <u>15.56</u> | ± 0.1 | GWMP |
| pH (SU) | 7.00 | <u>7.00</u> | <u>15.82</u> | ± 0.1 | GWMP |
| pH (SU) | 10.00 | <u>10.00</u> | <u>15.96</u> | ± 0.1 | GWMP |
| D.O. (%) | N/A | <u>180.5%</u> | <u>14.41</u> | ± 10% | NA |
| ORP (mV) | 228.0 | <u>228.0</u> | <u>15.60</u> | ± 10 | EPA 2023 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|------------|-------------------|---------------------|-----------|
| | <u>10</u> | <u>10</u> | ± 10% of standard | EPA 2023 |
| | <u>20</u> | <u>20</u> | | |
| | <u>100</u> | <u>100</u> | | |
| | <u>800</u> | <u>800</u> | | |

| Calibration Check | | | | | |
|------------------------------|-------------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | Time Finish | | | | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4.490 | <u>4.490</u> | <u>21.63</u> | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | <u>4.00</u> | <u>21.72</u> | ± 0.1 | GWMP |
| pH (SU) | 7.00 | <u>7.00</u> | <u>20.73</u> | ± 0.1 | GWMP |
| pH (SU) | 10.00 | <u>10.00</u> | <u>20.07</u> | ± 0.1 | GWMP |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|------------|-------------------|---------------------|-----------|
| | <u>10</u> | <u>10</u> | ± 10% of standard | EPA 2023 |
| | <u>20</u> | <u>20</u> | | |
| | <u>100</u> | <u>100</u> | | |
| | <u>800</u> | <u>800</u> | | |

Notes:

DO cal error; had to recalibrate

Invalid sensor calibration

Fixed once sponge was properly positioned

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 11/21/23

Calibrated By: Elizabeth Russell

Field Conditions: 60°, rainy

| Instrument | Manufacturer/ Model | Serial Number |
|---------------------|---------------------|----------------------|
| Water Quality Meter | <u>HANNA 900</u> | <u>883533</u> |
| Turbidity Meter | <u>HACH 2100Q</u> | <u>226900 000086</u> |

| Calibration Standard Information | | | | |
|----------------------------------|----------|-----------------|--------------------|------------|
| Parameter | Standard | Lot # | Date of Expiration | Brand |
| Specific Conductance (µS/cm) | 4.490 | <u>2400094</u> | <u>6/24</u> | <u>MIL</u> |
| pH (SU) | 4.00 | <u>2A008044</u> | <u>5/24</u> | <u>MIL</u> |
| pH (SU) | 7.00 | <u>22290139</u> | <u>4/24</u> | <u>MIL</u> |
| pH (SU) | 10.00 | <u>22110130</u> | <u>4/24</u> | <u>MIL</u> |
| D.O. (%) | N/A | | | <u>MIL</u> |
| ORP (mV) | 228.0 | <u>2402258</u> | <u>6/24</u> | <u>MIL</u> |

| Calibration | | | | | |
|------------------------------|----------|-------------------|---|---------------------|-----------|
| Time Start | 7:50 | | Time Finish | 8:52 | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4.490 | <u>4.490</u> | <u>17.98</u> 17.99 | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | <u>4.00</u> | <u>18.08</u> 18.08 ER 11-21-23 | ± 0.1 | GWMP |
| pH (SU) | 7.00 | <u>7.00</u> | <u>18.00</u> 18.00 23 | ± 0.1 | GWMP |
| pH (SU) | 10.00 | <u>10.00</u> | <u>18.00</u> 18.00 23 | ± 0.1 | GWMP |
| D.O. (%) | N/A | <u>100%</u> | <u>18.01</u> 18.01 ER 11-21-23 | ± 10% | NA |
| ORP (mV) | 228.0 | <u>223</u> | <u>17.33</u> | ± 10 | EPA 2023 |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|------------|-------------------|---------------------|-----------|
| | <u>10</u> | <u>9.93</u> | ± 10% of standard | EPA 2023 |
| | <u>20</u> | <u>20.3</u> | | |
| | <u>100</u> | <u>101</u> | | |
| | <u>800</u> | <u>820</u> | | |

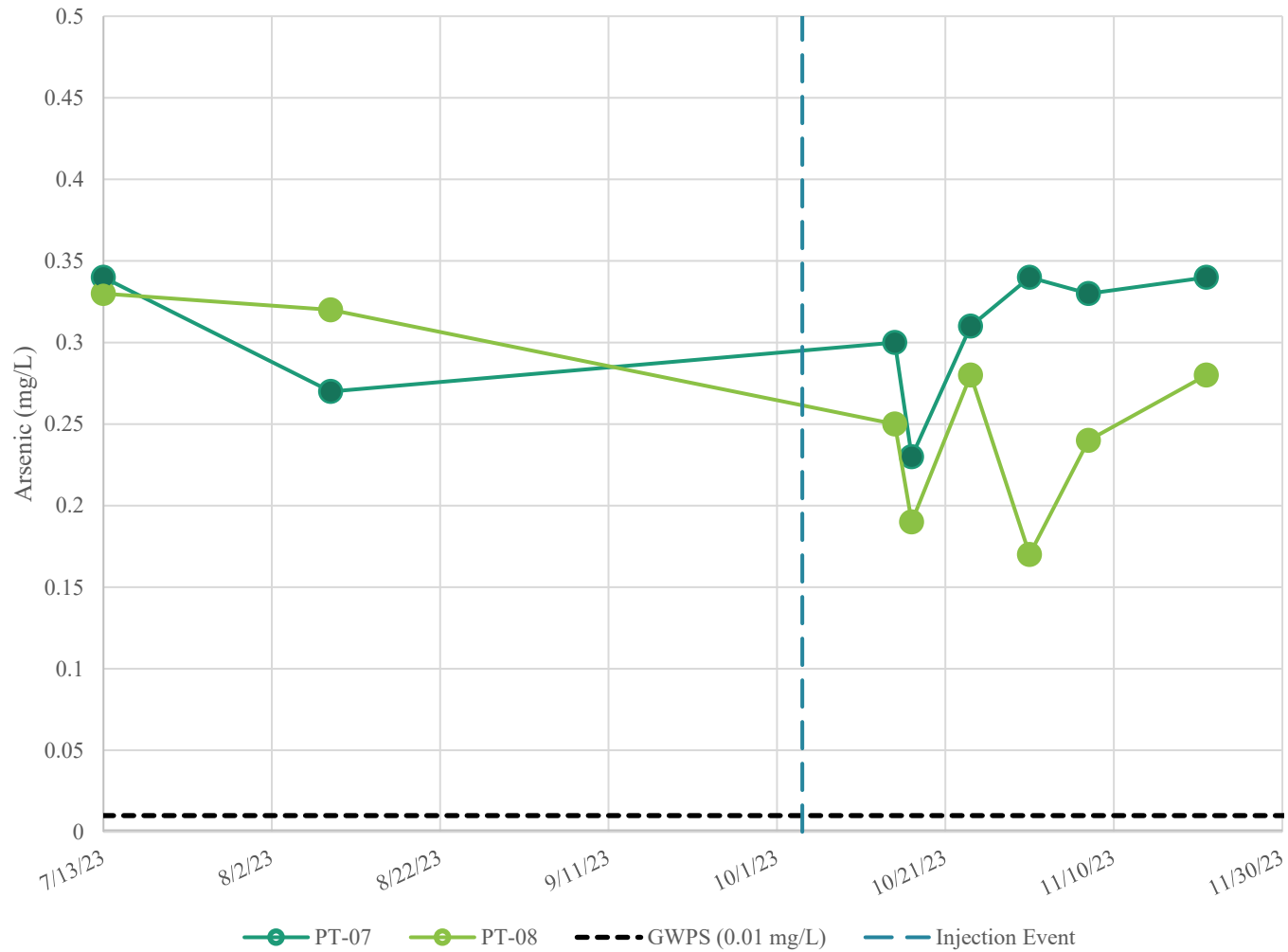
| Calibration Check | | | | | |
|------------------------------|----------|-------------------|---------------------------------------|---------------------|-----------|
| Time Start | 12:50 | | Time Finish | 1:30 | |
| Parameter | Standard | Calibration Value | Calibration Solution Temperature (°C) | Acceptance Criteria | Reference |
| Specific Conductance (µS/cm) | 4.490 | <u>4.490</u> | <u>19.77</u> | ± 10% of standard | EPA 2023 |
| pH (SU) | 4.00 | <u>4.00</u> | <u>19.22</u> | ± 0.1 | GWMP |
| pH (SU) | 7.00 | <u>7.00</u> | <u>19.77</u> | ± 0.1 | GWMP |
| pH (SU) | 10.00 | <u>10.00</u> | <u>19.08</u> | ± 0.1 | GWMP |

| Turbidity (NTU) | Standard | Calibration Value | Acceptance Criteria | Reference |
|-----------------|------------|-------------------|---------------------|-----------|
| | <u>10</u> | <u>10</u> | ± 10% of standard | EPA 2023 |
| | <u>20</u> | <u>20</u> | | |
| | <u>100</u> | <u>100</u> | | |
| | <u>800</u> | <u>800</u> | | |

Notes:

Time Series Plots

Time Series



Notes:

1. mg/L = milligrams per liter
2. GWPS = Groundwater Protection Standard

TIME SERIES – HGWC-13 PILOT STUDY AREA

GEORGIA POWER COMPANY
 PLANT HAMMOND AP-1
 ROME, FLOYD COUNTY, GEORGIA

Prepared For:



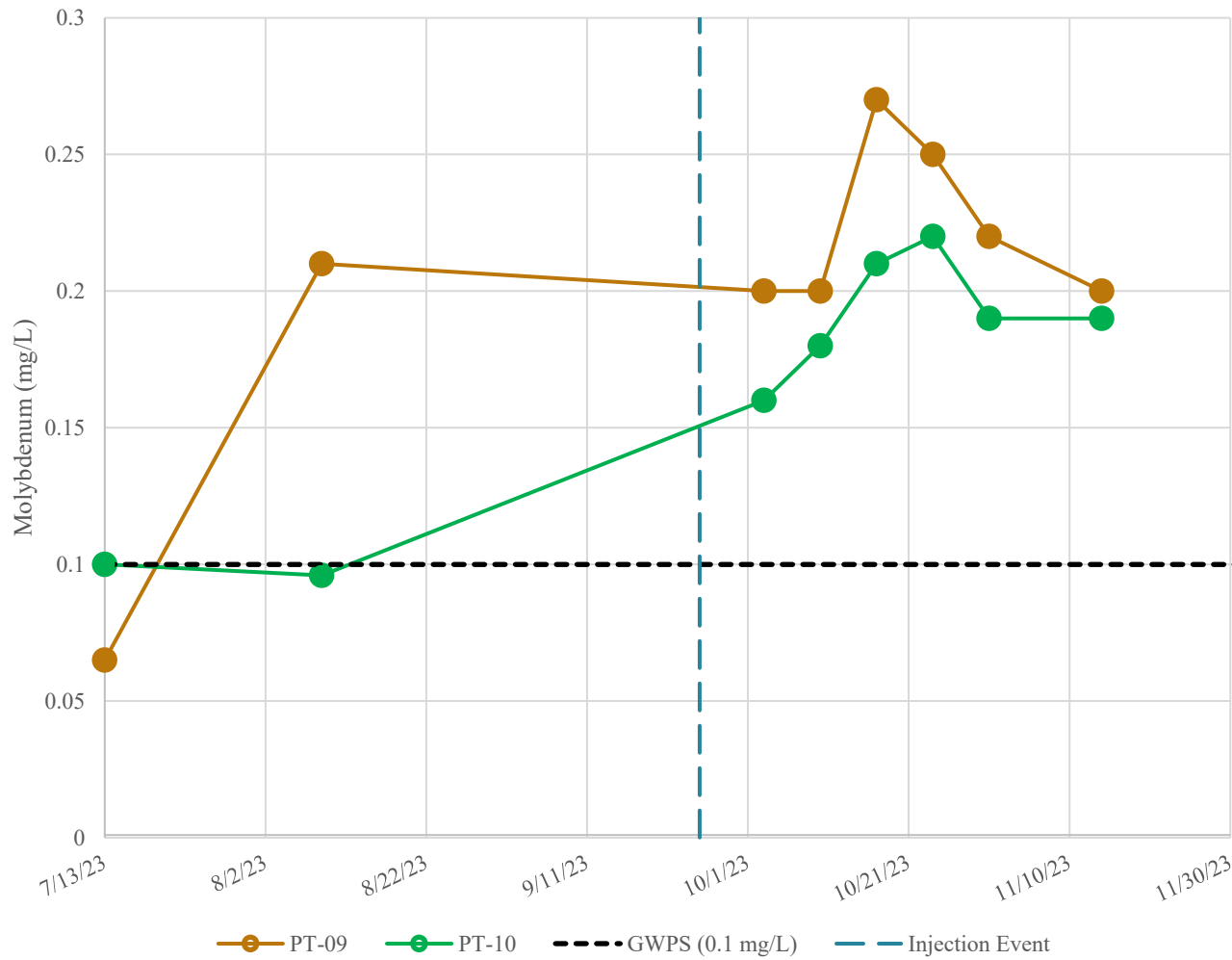
Prepared By:



KENNESAW, GA

JANUARY 2024

Time Series



- Notes:
1. mg/L = milligrams per liter
 2. GWPS = Groundwater Protection Standard

TIME SERIES – HGWC-8 PILOT STUDY AREA

GEORGIA POWER COMPANY
 PLANT HAMMOND AP-1
 ROME, FLOYD COUNTY, GEORGIA

Prepared For:


Prepared By:


KENNESAW, GA

JANUARY 2024

APPENDIX F

Potable Well Survey Report

Plant Hammond

5963 Alabama Hwy
Rome, GA 30165

Inquiry Number: 07486316.1r
November 01, 2023

The EDR GeoCheck® Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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GEOCHECK® - PHYSICAL SETTING SOURCE REPORT

TARGET PROPERTY ADDRESS

PLANT HAMMOND
5963 ALABAMA HWY
ROME, GA 30165

TARGET PROPERTY COORDINATES

Latitude (North): 34.252258 - 34° 15' 8.13"
Longitude (West): 85.346763 - 85° 20' 48.35"
Universal Tranverse Mercator: Zone 16
UTM X (Meters): 652231.3
UTM Y (Meters): 3791167.5
Elevation: 588 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 34085-C3 ROCK MOUNTAIN, GA
Version Date: 1985

South Map: 34085-B3 LIVINGSTON, GA
Version Date: 1982

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

| <u>Flood Plain Panel at Target Property</u> | <u>FEMA Source Type</u> |
|---|-------------------------|
| 13115C0163E | FEMA FIRM Flood data |
| <u>Additional Panels in search area:</u> | <u>FEMA Source Type</u> |
| 13115C0164E | FEMA FIRM Flood data |
| 13115C0252E | FEMA FIRM Flood data |
| 13115C0251E | FEMA FIRM Flood data |

NATIONAL WETLAND INVENTORY

| <u>NWI Quad at Target Property</u> | <u>NWI Electronic Data Coverage</u> |
|------------------------------------|--|
| ROCK MOUNTAIN | YES - refer to the Overview Map and Detail Map |

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

| <u>MAP ID</u> | <u>LOCATION FROM TP</u> | <u>GENERAL DIRECTION GROUNDWATER FLOW</u> |
|---------------|-------------------------|---|
| Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

| | |
|---------|---|
| Era: | Paleozoic |
| System: | Cambrian |
| Series: | Cambrian |
| Code: | C (decoded above as Era, System & Series) |

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

| | |
|-----------------------|--|
| Soil Component Name: | ETOWAH |
| Soil Surface Texture: | loam |
| Hydrologic Group: | Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures. |
| Soil Drainage Class: | Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet. |

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: LOW

| | |
|-----------------------|-------------|
| Depth to Bedrock Min: | > 60 inches |
| Depth to Bedrock Max: | > 60 inches |

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| Soil Layer Information | | | | | | | |
|------------------------|-----------|-----------|--------------------|--|--|---------------------------|------------------------|
| Layer | Boundary | | Soil Texture Class | Classification | | Permeability Rate (in/hr) | Soil Reaction (pH) |
| | Upper | Lower | | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 7 inches | loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt. | Max: 2.00 Min: 0.60 | Max: 5.50 Min: 4.50 |
| 2 | 7 inches | 38 inches | silty clay loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils. | Max: 2.00 Min: 0.60 | Max: 5.50 Min: 4.50 |
| 3 | 38 inches | 70 inches | silty clay loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils. | Max: 2.00 Min: 0.60 | Max: 5.50 Min: 4.50 |

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
clay loam

Surficial Soil Types: silt loam
clay loam

Shallow Soil Types: sandy clay loam
clay loam
silty clay loam
silty clay

Deeper Soil Types: clay loam
stratified clay
cherty - clay loam
weathered bedrock
loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

| <u>DATABASE</u> | <u>SEARCH DISTANCE (miles)</u> |
|------------------|--------------------------------|
| Federal USGS | 2.000 |
| Federal FRDS PWS | 2.000 |
| State Database | 2.000 |

FEDERAL USGS WELL INFORMATION

| <u>MAP ID</u> | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------|-----------------|-------------------------|
| A1 | USGS40000266955 | 1/8 - 1/4 Mile NW |
| B3 | USGS40000266956 | 1/8 - 1/4 Mile NNE |
| D7 | USGS40000266962 | 1/4 - 1/2 Mile North |
| B9 | USGS40000266957 | 1/4 - 1/2 Mile NE |
| D12 | USGS40000266965 | 1/4 - 1/2 Mile NNW |
| E13 | USGS40000266972 | 1/4 - 1/2 Mile North |
| E16 | USGS40000266968 | 1/2 - 1 Mile NNE |
| F18 | USGS40000266981 | 1/2 - 1 Mile North |
| G21 | USGS40000266978 | 1 - 2 Miles NE |
| H22 | USGS40000266969 | 1 - 2 Miles ENE |
| H25 | USGS40000266975 | 1 - 2 Miles ENE |
| I27 | USGS40000266890 | 1 - 2 Miles South |
| J29 | USGS40000266958 | 1 - 2 Miles East |
| K31 | USGS40000266908 | 1 - 2 Miles SE |
| L33 | USGS40000266966 | 1 - 2 Miles ENE |

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

| <u>MAP ID</u> | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------------|----------------|-------------------------|
| No PWS System Found | | |

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

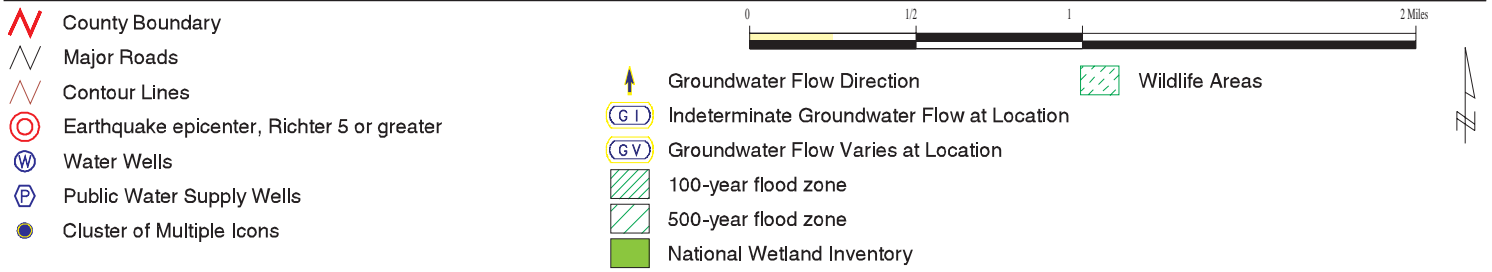
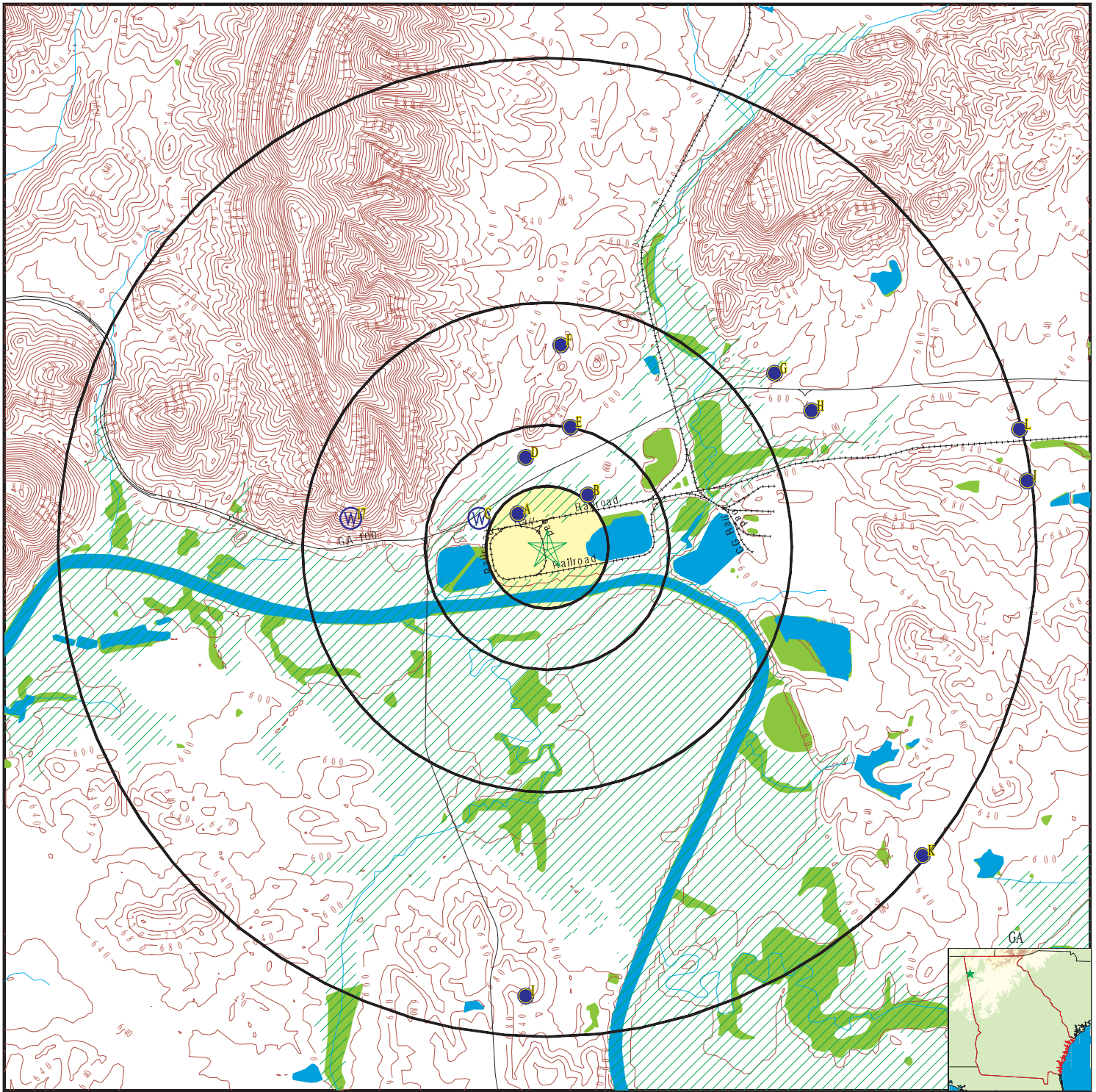
| <u>MAP ID</u> | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------|----------------|-------------------------|
| A2 | 0000004171 | 1/8 - 1/4 Mile NW |
| B4 | 0000004172 | 1/8 - 1/4 Mile NNE |
| C5 | 0000004168 | 1/4 - 1/2 Mile WNW |
| C6 | 0000004169 | 1/4 - 1/2 Mile WNW |
| D8 | 0000004175 | 1/4 - 1/2 Mile North |
| B10 | 0000004173 | 1/4 - 1/2 Mile NE |
| D11 | 0000004177 | 1/4 - 1/2 Mile NNW |
| E14 | 0000004181 | 1/4 - 1/2 Mile North |
| E15 | 0000004179 | 1/2 - 1 Mile NNE |
| 17 | 0000004170 | 1/2 - 1 Mile West |
| F19 | 0000004188 | 1/2 - 1 Mile North |

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

| <u>MAP ID</u> | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------|----------------|-----------------------------|
| G20 | 0000004185 | 1 - 2 Miles NE |
| H23 | 0000004180 | 1 - 2 Miles ENE |
| H24 | 0000004183 | 1 - 2 Miles ENE |
| I26 | 0000004144 | 1 - 2 Miles South |
| J28 | 0000004174 | 1 - 2 Miles East |
| K30 | 0000004151 | 1 - 2 Miles SE |
| L32 | 0000004178 | 1 - 2 Miles ENE |

PHYSICAL SETTING SOURCE MAP - 07486316.1r



SITE NAME: Plant Hammond
ADDRESS: 5963 Alabama Hwy
 Rome GA 30165
LAT/LONG: 34.252258 / 85.346763

CLIENT: Geosyntec Consultants
CONTACT: Anthony Szwest
INQUIRY #: 07486316.1r
DATE: November 01, 2023 3:20 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1
NW
1/8 - 1/4 Mile
Higher

FED USGS USGS40000266955

| | | | |
|------------------------|---------------------------|-----------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 03JJ41 | Type: | Well |
| Description: | GA POWER, PLANT HAMMOND | HUC: | 03150105 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Valley and Ridge aquifers | Formation Type: | Conasauga Formation |
| Aquifer Type: | Not Reported | Construction Date: | 19511101 |
| Well Depth: | 411 | Well Depth Units: | ft |
| Well Hole Depth: | 411 | Well Hole Depth Units: | ft |

A2
NW
1/8 - 1/4 Mile
Higher

GA WELLS 0000004171

| | | | |
|---------------|-------------------------|------------------|--------------|
| County code: | 115 | Well num: | 03JJ41 |
| Remarks: | GA POWER, PLANT HAMMOND | Lat: | 341515 |
| Lon: | 0852056 | Latlon datum: | NAD27 |
| Alt: | 586.00 | Alt datum: | NGVD29 |
| Depth: | 411 | Depth to casing: | 44.5 |
| Casing dia: | 12. | Casing matl: | Not Reported |
| Depth to top: | 44.5 | Depth to bot: | 411. |
| Opening type: | X | Constr date: | 19551101 |
| Discharge: | 69.60 | Prim use: | N |
| Aquifer code: | 371CNSG | Edr id: | 0000004171 |

B3
NNE
1/8 - 1/4 Mile
Higher

FED USGS USGS40000266956

| | | | |
|------------------------|---------------------------|-----------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 03JJ35 | Type: | Well |
| Description: | GA. POWER CO. WELL NO.3 | HUC: | 03150105 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Valley and Ridge aquifers | Formation Type: | Conasauga Formation |
| Aquifer Type: | Not Reported | Construction Date: | 195111 |
| Well Depth: | 405 | Well Depth Units: | ft |
| Well Hole Depth: | Not Reported | Well Hole Depth Units: | Not Reported |

B4
NNE
1/8 - 1/4 Mile
Higher

GA WELLS 0000004172

| | | | |
|--------------|-------------------------|---------------|--------|
| County code: | 115 | Well num: | 03JJ35 |
| Remarks: | GA. POWER CO. WELL NO.3 | Lat: | 341518 |
| Lon: | 0852041 | Latlon datum: | NAD27 |
| Alt: | 590.0 | Alt datum: | NGVD29 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|---------------|--------------|------------------|--------------|
| Depth: | 405.0 | Depth to casing: | 22.0 |
| Casing dia: | 12.0 | Casing matl: | Not Reported |
| Depth to top: | 22.0 | Depth to bot: | 405.0 |
| Opening type: | X | Constr date: | 195111 |
| Discharge: | Not Reported | Prim use: | Not Reported |
| Aquifer code: | 371CNSG | Edr id: | 0000004172 |

**C5
WNW
1/4 - 1/2 Mile
Higher**

GA WELLS 000004168

| | | | |
|---------------|--------------|------------------|--------------|
| County code: | 115 | Well num: | 03JJS2 |
| Remarks: | JOE EARLY | Lat: | 341514 |
| Lon: | 0852106 | Latlon datum: | NAD27 |
| Alt: | 590 | Alt datum: | NGVD29 |
| Depth: | Not Reported | Depth to casing: | Not Reported |
| Casing dia: | Not Reported | Casing matl: | Not Reported |
| Depth to top: | Not Reported | Depth to bot: | Not Reported |
| Opening type: | Not Reported | Constr date: | Not Reported |
| Discharge: | 208.3 | Prim use: | Not Reported |
| Aquifer code: | Not Reported | Edr id: | 000004168 |

**C6
WNW
1/4 - 1/2 Mile
Higher**

GA WELLS 000004169

| | | | |
|---------------|--------------|------------------|--------------|
| County code: | 115 | Well num: | 03JJS2 |
| Remarks: | JOE EARLY | Lat: | 341514 |
| Lon: | 0852106 | Latlon datum: | NAD27 |
| Alt: | 590 | Alt datum: | NGVD29 |
| Depth: | Not Reported | Depth to casing: | Not Reported |
| Casing dia: | Not Reported | Casing matl: | Not Reported |
| Depth to top: | Not Reported | Depth to bot: | Not Reported |
| Opening type: | Not Reported | Constr date: | Not Reported |
| Discharge: | 208.3 | Prim use: | Not Reported |
| Aquifer code: | Not Reported | Edr id: | 000004169 |

**D7
North
1/4 - 1/2 Mile
Higher**

FED USGS USGS40000266962

| | | | |
|------------------------|---------------------------|-----------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 03JJ31 | Type: | Well |
| Description: | RUTH BRIDGES | HUC: | 03150105 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Valley and Ridge aquifers | Formation Type: | Floyd Shale |
| Aquifer Type: | Not Reported | Construction Date: | 1949 |
| Well Depth: | 96 | Well Depth Units: | ft |
| Well Hole Depth: | Not Reported | Well Hole Depth Units: | Not Reported |

| | | | |
|---|--------------|---------------------|--------------|
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 1961-11-07 |
| Feet below surface: | 20 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

D8
North
1/4 - 1/2 Mile
Higher

GA WELLS 0000004175

| | | | |
|---------------|--------------|------------------|--------------|
| County code: | 115 | Well num: | 03JJ31 |
| Remarks: | RUTH BRIDGES | Lat: | 341524 |
| Lon: | 0852052 | Latlon datum: | NAD27 |
| Alt: | 590 | Alt datum: | NGVD29 |
| Depth: | 96 | Depth to casing: | 20 |
| Casing dia: | 6 | Casing matl: | Not Reported |
| Depth to top: | 20 | Depth to bot: | 96 |
| Opening type: | X | Constr date: | 1949 |
| Discharge: | 10 | Prim use: | H |
| Aquifer code: | 331FLYD | Edr id: | 0000004175 |

B9
NE
1/4 - 1/2 Mile
Higher

FED USGS USGS40000266957

| | | | |
|------------------------|---------------------------|-----------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 03JJ40 | Type: | Well |
| Description: | GA POWER CO, HAMMOND PLNT | HUC: | 03150105 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Valley and Ridge aquifers | Formation Type: | Conasauga Formation |
| Aquifer Type: | Not Reported | Construction Date: | 195111 |
| Well Depth: | 405 | Well Depth Units: | ft |
| Well Hole Depth: | Not Reported | Well Hole Depth Units: | Not Reported |

| | | | |
|---|--------------|---------------------|--------------|
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 1951-11 |
| Feet below surface: | 15 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

B10
NE
1/4 - 1/2 Mile
Higher

GA WELLS 0000004173

| | | | |
|---------------|---------------------------|------------------|--------------|
| County code: | 115 | Well num: | 03JJ40 |
| Remarks: | GA POWER CO, HAMMOND PLNT | Lat: | 341520 |
| Lon: | 0852035 | Latlon datum: | NAD27 |
| Alt: | 590 | Alt datum: | NGVD29 |
| Depth: | 405 | Depth to casing: | Not Reported |
| Casing dia: | Not Reported | Casing matl: | Not Reported |
| Depth to top: | Not Reported | Depth to bot: | Not Reported |
| Opening type: | Not Reported | Constr date: | 195111 |
| Discharge: | 40. | Prim use: | N |
| Aquifer code: | 371CNSG | Edr id: | 0000004173 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

D11
NNW
1/4 - 1/2 Mile
Higher

GA WELLS 0000004177

| | | | |
|---------------|----------------------|------------------|--------------|
| County code: | 115 | Well num: | 03JJ14 |
| Remarks: | MRS. ARTHUR L. LLOYD | Lat: | 341530 |
| Lon: | 0852056 | Latlon datum: | NAD27 |
| Alt: | 595 | Alt datum: | NGVD29 |
| Depth: | 87 | Depth to casing: | 21 |
| Casing dia: | 6 | Casing matl: | Not Reported |
| Depth to top: | 21 | Depth to bot: | 87 |
| Opening type: | X | Constr date: | 1948 |
| Discharge: | 16.7 | Prim use: | H |
| Aquifer code: | 371CNSG | Edr id: | 0000004177 |

D12
NNW
1/4 - 1/2 Mile
Higher

FED USGS USGS40000266965

| | | | |
|------------------------|---------------------------|-----------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 03JJ14 | Type: | Well |
| Description: | MRS. ARTHUR L. LLOYD | HUC: | 03150105 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Valley and Ridge aquifers | Formation Type: | Conasauga Formation |
| Aquifer Type: | Not Reported | Construction Date: | 1948 |
| Well Depth: | 87 | Well Depth Units: | ft |
| Well Hole Depth: | Not Reported | Well Hole Depth Units: | Not Reported |

| | | | |
|---|--------------|---------------------|--------------|
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 1948 |
| Feet below surface: | 4 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

E13
North
1/4 - 1/2 Mile
Higher

FED USGS USGS40000266972

| | | | |
|------------------------|---------------------------|-----------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 03JJ13 | Type: | Well |
| Description: | ARTHUR W. LLOYD | HUC: | 03150105 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Valley and Ridge aquifers | Formation Type: | Floyd Shale |
| Aquifer Type: | Not Reported | Construction Date: | 1955 |
| Well Depth: | 72 | Well Depth Units: | ft |
| Well Hole Depth: | Not Reported | Well Hole Depth Units: | Not Reported |

| | | | |
|---|--------------|---------------------|--------------|
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 1955 |
| Feet below surface: | 15.0 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

E14
North
1/4 - 1/2 Mile
Higher

GA WELLS 0000004181

| | | | |
|---------------|-----------------|------------------|--------------|
| County code: | 115 | Well num: | 03JJ13 |
| Remarks: | ARTHUR W. LLOYD | Lat: | 341533 |
| Lon: | 0852047 | Latlon datum: | NAD27 |
| Alt: | 625 | Alt datum: | NGVD29 |
| Depth: | 72 | Depth to casing: | 28 |
| Casing dia: | 6 | Casing matl: | Not Reported |
| Depth to top: | 28 | Depth to bot: | 72 |
| Opening type: | X | Constr date: | 1955 |
| Discharge: | 15 | Prim use: | H |
| Aquifer code: | 331FLYD | Edr id: | 0000004181 |

E15
NNE
1/2 - 1 Mile
Higher

GA WELLS 0000004179

| | | | |
|---------------|---------------------|------------------|--------------|
| County code: | 115 | Well num: | 03JJ12 |
| Remarks: | DEWEY H. WORTHY JR. | Lat: | 341534 |
| Lon: | 0852038 | Latlon datum: | NAD27 |
| Alt: | 600 | Alt datum: | NGVD29 |
| Depth: | 60 | Depth to casing: | 55 |
| Casing dia: | 6 | Casing matl: | Not Reported |
| Depth to top: | 55 | Depth to bot: | 60 |
| Opening type: | X | Constr date: | 196106 |
| Discharge: | 10 | Prim use: | H |
| Aquifer code: | 331FLYD | Edr id: | 0000004179 |

E16
NNE
1/2 - 1 Mile
Higher

FED USGS USGS40000266968

| | | | |
|------------------------|---------------------------|-----------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 03JJ12 | Type: | Well |
| Description: | DEWEY H. WORTHY JR. | HUC: | 03150105 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Valley and Ridge aquifers | Formation Type: | Floyd Shale |
| Aquifer Type: | Not Reported | Construction Date: | 196106 |
| Well Depth: | 60 | Well Depth Units: | ft |
| Well Hole Depth: | Not Reported | Well Hole Depth Units: | Not Reported |

| | | | |
|---|--------------|---------------------|--------------|
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 1961-11-07 |
| Feet below surface: | 15.35 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

17
West
1/2 - 1 Mile
Higher

GA WELLS 000004170

| | | | |
|---------------|--------------|------------------|--------------|
| County code: | 115 | Well num: | 03JJ47 |
| Remarks: | A.A. LOONEY | Lat: | 341514 |
| Lon: | 0852139 | Latlon datum: | NAD27 |
| Alt: | 800 | Alt datum: | NGVD29 |
| Depth: | Not Reported | Depth to casing: | Not Reported |
| Casing dia: | Not Reported | Casing matl: | Not Reported |
| Depth to top: | Not Reported | Depth to bot: | Not Reported |
| Opening type: | Not Reported | Constr date: | Not Reported |
| Discharge: | Not Reported | Prim use: | Not Reported |
| Aquifer code: | Not Reported | Edr id: | 000004170 |

F18
North
1/2 - 1 Mile
Higher

FED USGS USGS40000266981

| | | | |
|------------------------|---------------------------|-----------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 03JJ15 | Type: | Well |
| Description: | ROME CRAFT | HUC: | 03150105 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Valley and Ridge aquifers | Formation Type: | Floyd Shale |
| Aquifer Type: | Not Reported | Construction Date: | 1958 |
| Well Depth: | 205 | Well Depth Units: | ft |
| Well Hole Depth: | Not Reported | Well Hole Depth Units: | Not Reported |

| | | | |
|---|--------------|---------------------|--------------|
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 1958 |
| Feet below surface: | 40.0 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

F19
North
1/2 - 1 Mile
Higher

GA WELLS 000004188

| | | | |
|---------------|------------|------------------|--------------|
| County code: | 115 | Well num: | 03JJ15 |
| Remarks: | ROME CRAFT | Lat: | 341551 |
| Lon: | 0852045 | Latlon datum: | NAD27 |
| Alt: | 640 | Alt datum: | NGVD29 |
| Depth: | 205 | Depth to casing: | 179 |
| Casing dia: | 6 | Casing matl: | Not Reported |
| Depth to top: | 179 | Depth to bot: | 205 |
| Opening type: | X | Constr date: | 1958 |
| Discharge: | 6.5 | Prim use: | C |
| Aquifer code: | 331FLYD | Edr id: | 000004188 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

G20
NE
1 - 2 Miles
Lower

GA WELLS 0000004185

| | | | |
|---------------|--------------|------------------|--------------|
| County code: | 115 | Well num: | 03JJ16 |
| Remarks: | C.W. AKRIDGE | Lat: | 341545 |
| Lon: | 0851950 | Latlon datum: | NAD27 |
| Alt: | 590 | Alt datum: | NGVD29 |
| Depth: | 89 | Depth to casing: | 7 |
| Casing dia: | 6 | Casing matl: | Not Reported |
| Depth to top: | 7 | Depth to bot: | 89 |
| Opening type: | X | Constr date: | 1941 |
| Discharge: | 5 | Prim use: | H |
| Aquifer code: | 331FLYD | Edr id: | 0000004185 |

G21
NE
1 - 2 Miles
Lower

FED USGS USGS40000266978

| | | | |
|------------------------|---------------------------|-----------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 03JJ16 | Type: | Well |
| Description: | C.W. AKRIDGE | HUC: | 03150105 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Valley and Ridge aquifers | Formation Type: | Floyd Shale |
| Aquifer Type: | Not Reported | Construction Date: | 1941 |
| Well Depth: | 89 | Well Depth Units: | ft |
| Well Hole Depth: | Not Reported | Well Hole Depth Units: | Not Reported |

H22
ENE
1 - 2 Miles
Higher

FED USGS USGS40000266969

| | | | |
|------------------------|---------------------------|-----------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 03JJ17 | Type: | Well |
| Description: | C.W. AKRIDGE | HUC: | 03150105 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Valley and Ridge aquifers | Formation Type: | Floyd Shale |
| Aquifer Type: | Not Reported | Construction Date: | 1945 |
| Well Depth: | 157 | Well Depth Units: | ft |
| Well Hole Depth: | Not Reported | Well Hole Depth Units: | Not Reported |

H23
ENE
1 - 2 Miles
Higher

GA WELLS 0000004180

| | | | |
|--------------|--------------|---------------|--------|
| County code: | 115 | Well num: | 03JJ17 |
| Remarks: | C.W. AKRIDGE | Lat: | 341535 |
| Lon: | 0851942 | Latlon datum: | NAD27 |
| Alt: | 605 | Alt datum: | NGVD29 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|---------------|--------------|------------------|--------------|
| Depth: | 157 | Depth to casing: | Not Reported |
| Casing dia: | 6.0 | Casing matl: | Not Reported |
| Depth to top: | Not Reported | Depth to bot: | Not Reported |
| Opening type: | Not Reported | Constr date: | 1945 |
| Discharge: | 5 | Prim use: | H |
| Aquifer code: | 331FLYD | Edr id: | 0000004180 |

**H24
ENE
1 - 2 Miles
Higher**

GA WELLS 0000004183

| | | | |
|---------------|--------------|------------------|--------------|
| County code: | 115 | Well num: | 03JJ18 |
| Remarks: | C.H. JOHNSON | Lat: | 341539 |
| Lon: | 0851939 | Latlon datum: | NAD27 |
| Alt: | 600 | Alt datum: | NGVD29 |
| Depth: | 96 | Depth to casing: | 35 |
| Casing dia: | 6 | Casing matl: | Not Reported |
| Depth to top: | 35 | Depth to bot: | 96 |
| Opening type: | X | Constr date: | 1959 |
| Discharge: | Not Reported | Prim use: | H |
| Aquifer code: | 331FLYD | Edr id: | 0000004183 |

**H25
ENE
1 - 2 Miles
Higher**

FED USGS USGS40000266975

| | | | |
|------------------------|---------------------------|-----------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 03JJ18 | Type: | Well |
| Description: | C.H. JOHNSON | HUC: | 03150105 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Valley and Ridge aquifers | Formation Type: | Floyd Shale |
| Aquifer Type: | Not Reported | Construction Date: | 1959 |
| Well Depth: | 96 | Well Depth Units: | ft |
| Well Hole Depth: | Not Reported | Well Hole Depth Units: | Not Reported |

| | | | |
|---|--------------|---------------------|--------------|
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 1961-11-07 |
| Feet below surface: | 33.28 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

**I26
South
1 - 2 Miles
Higher**

GA WELLS 0000004144

| | | | |
|---------------|--------------|------------------|--------------|
| County code: | 115 | Well num: | 03HH27 |
| Remarks: | SIDNEY EVANS | Lat: | 341332 |
| Lon: | 0852054 | Latlon datum: | NAD27 |
| Alt: | 660.0 | Alt datum: | NGVD29 |
| Depth: | 129.0 | Depth to casing: | 50.0 |
| Casing dia: | 6.0 | Casing matl: | Not Reported |
| Depth to top: | 50.0 | Depth to bot: | 129.0 |
| Opening type: | X | Constr date: | 1956 |
| Discharge: | 9.0 | Prim use: | H |
| Aquifer code: | 371CNSG | Edr id: | 0000004144 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

I27
South
1 - 2 Miles
Higher

FED USGS USGS40000266890

| | | | |
|------------------------|---------------------------|-----------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 03HH27 | Type: | Well |
| Description: | SIDNEY EVANS | HUC: | 03150105 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Valley and Ridge aquifers | Formation Type: | Conasauga Formation |
| Aquifer Type: | Not Reported | Construction Date: | 1956 |
| Well Depth: | 129 | Well Depth Units: | ft |
| Well Hole Depth: | Not Reported | Well Hole Depth Units: | Not Reported |

J28
East
1 - 2 Miles
Higher

GA WELLS 0000004174

| | | | |
|---------------|--------------|------------------|--------------|
| County code: | 115 | Well num: | 03JJ20 |
| Remarks: | JACK AKRIDGE | Lat: | 341522 |
| Lon: | 0851845 | Latlon datum: | NAD27 |
| Alt: | 670 | Alt datum: | NGVD29 |
| Depth: | 65 | Depth to casing: | Not Reported |
| Casing dia: | Not Reported | Casing matl: | Not Reported |
| Depth to top: | Not Reported | Depth to bot: | Not Reported |
| Opening type: | Not Reported | Constr date: | 1955 |
| Discharge: | 11.7 | Prim use: | H |
| Aquifer code: | 371CNSG | Edr id: | 0000004174 |

J29
East
1 - 2 Miles
Higher

FED USGS USGS40000266958

| | | | |
|------------------------|---------------------------|-----------------------------|-----------------------------------|
| Organization ID: | USGS-GA | Organization Name: | USGS Georgia Water Science Center |
| Monitor Location: | 03JJ20 | Type: | Well |
| Description: | JACK AKRIDGE | HUC: | 03150105 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Valley and Ridge aquifers | Formation Type: | Conasauga Formation |
| Aquifer Type: | Not Reported | Construction Date: | 1955 |
| Well Depth: | 65 | Well Depth Units: | ft |
| Well Hole Depth: | Not Reported | Well Hole Depth Units: | Not Reported |

K30
SE
1 - 2 Miles
Higher

GA WELLS 0000004151

| | | | |
|--------------|--------------|---------------|--------|
| County code: | 115 | Well num: | 03HH03 |
| Remarks: | L.L. PUCKETT | Lat: | 341402 |
| Lon: | 0851912 | Latlon datum: | NAD27 |
| Alt: | 650.0 | Alt datum: | NGVD29 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | |
|-----------------------|---------------------------|
| Depth: 125.0 | Depth to casing: 31.0 |
| Casing dia: 6.0 | Casing matl: Not Reported |
| Depth to top: 31.0 | Depth to bot: 125.0 |
| Opening type: X | Constr date: 1960 |
| Discharge: 4.5 | Prim use: H |
| Aquifer code: 371CNSG | Edr id: 0000004151 |

K31
SE
1 - 2 Miles
Higher

FED USGS USGS40000266908

| | |
|-------------------------------------|--|
| Organization ID: USGS-GA | Organization Name: USGS Georgia Water Science Center |
| Monitor Location: 03HH03 | Type: Well |
| Description: L.L. PUCKETT | HUC: 03150105 |
| Drainage Area: Not Reported | Drainage Area Units: Not Reported |
| Contrib Drainage Area: Not Reported | Contrib Drainage Area Unts: Not Reported |
| Aquifer: Valley and Ridge aquifers | Formation Type: Conasauga Formation |
| Aquifer Type: Not Reported | Construction Date: 1960 |
| Well Depth: 125 | Well Depth Units: ft |
| Well Hole Depth: 125 | Well Hole Depth Units: ft |

| | |
|--|---------------------------------|
| Ground water levels, Number of Measurements: 1 | Level reading date: 1960 |
| Feet below surface: 27.0 | Feet to sea level: Not Reported |
| Note: Not Reported | |

L32
ENE
1 - 2 Miles
Higher

GA WELLS 0000004178

| | |
|----------------------------|-------------------------------|
| County code: 115 | Well num: 03JJ19 |
| Remarks: C.W. AKRIDGE | Lat: 341533 |
| Lon: 0851847 | Latlon datum: NAD27 |
| Alt: 635 | Alt datum: NGVD29 |
| Depth: 359 | Depth to casing: Not Reported |
| Casing dia: Not Reported | Casing matl: Not Reported |
| Depth to top: Not Reported | Depth to bot: Not Reported |
| Opening type: Not Reported | Constr date: 1945 |
| Discharge: Not Reported | Prim use: H |
| Aquifer code: 331FLYD | Edr id: 0000004178 |

L33
ENE
1 - 2 Miles
Higher

FED USGS USGS40000266966

| | |
|-------------------------------------|--|
| Organization ID: USGS-GA | Organization Name: USGS Georgia Water Science Center |
| Monitor Location: 03JJ19 | Type: Well |
| Description: C.W. AKRIDGE | HUC: 03150105 |
| Drainage Area: Not Reported | Drainage Area Units: Not Reported |
| Contrib Drainage Area: Not Reported | Contrib Drainage Area Unts: Not Reported |
| Aquifer: Valley and Ridge aquifers | Formation Type: Floyd Shale |
| Aquifer Type: Not Reported | Construction Date: 1945 |
| Well Depth: 359 | Well Depth Units: ft |
| Well Hole Depth: Not Reported | Well Hole Depth Units: Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground water levels, Number of Measurements: 1
Feet below surface: 29.2
Note: Not Reported

Level reading date: 1946-10-22
Feet to sea level: Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for FLOYD County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level \geq 2 pCi/L and \leq 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for FLOYD COUNTY, GA

Number of sites tested: 14

| <u>Area</u> | <u>Average Activity</u> | <u>% <4 pCi/L</u> | <u>% 4-20 pCi/L</u> | <u>% >20 pCi/L</u> |
|-------------------------|-------------------------|----------------------|---------------------|-----------------------|
| Living Area - 1st Floor | 1.586 pCi/L | 93% | 7% | 0% |
| Living Area - 2nd Floor | Not Reported | Not Reported | Not Reported | Not Reported |
| Basement | 1.767 pCi/L | 100% | 0% | 0% |

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Georgia GIS Clearinghouse

Telephone: 706-542-1581

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

A listing of Private Water Well locations

Georgia Department of Public Health

Telephone: (404) 657-2700

A listing of Private Water Well locations

Georgia Public Supply Wells

Source: Georgia Department of Community Affairs

Telephone: 404-894-0127

USGS Georgia Water Wells

Source: USGS, Georgia District Office

Telephone: 770-903-9100

DNR Managed Lands

Source: Department of Natural Resources

Telephone: 706-557-3032

This dataset provides 1:24,000-scale data depicting boundaries of land parcels making up the public lands managed by the Georgia Department of Natural Resources (GDNR). It includes polygon representations of State Parks, State Historic Parks, State Conservation Parks, State Historic Sites, Wildlife Management Areas, Public Fishing Areas, Fish Hatcheries, Natural Areas and other specially-designated areas. The data were collected and located by the Georgia Department of Natural Resources. Boundaries were digitized from survey plats or other information.

RADON

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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