Voluntary Remediation Program Seventh Semi-Annual Status Report

Atlanta Gas Light Company Former Manufactured Gas Plant Site
Augusta, Richmond County, Georgia
HSI No. 10132
VRP
Consent Order EPD-VRP-011
Project # 6122140098 Atlanta Gas Light Company

Prepared for:

Atlanta Gas Light Company
Ten Peachtree Place, Atlanta. Georgia 30309

6/1/2018

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Ten Peachtree Place, Atlanta. Georgia 30309

Prepared by:

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6/1/2018

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I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enables me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by me or by a subordinate working under my direction. Data contained herein gathered and reported by professionals other than Wood Environment & Infrastructure Solutions, Inc. are accepted as accurate and have been integrated into this report as such.

Greg Wrenn, P.E. (Georgia P.E. No. 25565)
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May 29 2018
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Table of Contents

1.0 Project Summary 1-1
2.0 Site Activities 2-1
2.1 Groundwater Monitoring 2-1
2.2 Design 2-1
3.0 Additional Qualifying Parcels 3-1
4.0 Conclusions and Recommendations 4-1
5.0 Next Submittal 5-1
6.0 References 6-1

List of Tables

Table 2-1 Monitoring Well Status
Table 2-2 Site Delineation and Cleanup Standards for Groundwater

List of Figures

Figure 1-1 Site Location Map
Figure 1-2 Parcel Block Map – City of Augusta
Figure 2-1 Monitoring Well Locations
Figure 2-2 Galliard Groundwater Approximate Extent of Dissolved Phase Impacts January 2018
Figure 2-3 Bedrock Groundwater Approximate Extent of Dissolved Phase Impacts January 2018
Figure 2-4 Wells to be Monitored
Figure 3-1 Qualifying Properties
Figure 4-1 Updated Schedule for VRP Activities

List of Appendices

Appendix A January 2018 CAER
Appendix B Registered Professional Supporting Documentation

List of Acronyms

Acronym	Definition
ACA	Augusta Canal Authority
AGLC	Atlanta Gas Light Company
BPLM	By-Product-Like Material
COA	Certificate of Appropriateness
DNAPL	Dense Non-Aqueous Phase Liquid
DPT	Direct Push Technology
EPD	Georgia Environmental Protection Division
ISS	In-Situ Solidification
MGP	Manufactured Gas Plant
RRS	Risk Reduction Standards
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VIRP	Voluntary Investigation and Remediation Plan
VRP	Georgia Voluntary Remediation Program

1.0 Project Summary

The former Augusta Manufactured Gas Plant (MGP) is located at the intersection of Walton Way and 8th Street in the City of Augusta, County of Richmond, Georgia (Figure 1-1). Atlanta Gas Light Company (AGLC), owns three parcels of land on which a MGP and ancillary facilities operated, which collectively occupy approximately 3.5 acres (Figure 1-2). These properties as well as those surrounding properties potentially impacted by the former MGP operations are collectively referred to as the "Augusta MGP Site" or the "Site" in this Status Report.

AGLC has performed a series of investigations and implemented numerous Georgia Environmental Protection Division (EPD) approved corrective actions and has addressed the MGP impacts in the unsaturated and saturated zone materials over large areas of the Site since the mid-1980s.

Excavation and in-situ solidification (ISS) operations were completed for the Northern Parcel and Car Wash areas during fall 2003. In 2004, soil removal (excavation) activities were completed at Blocks A, E, G, and H; 8th Street and Fenwick Street; and along five segments of the Third Level Canal (designated Reach D, Reach E, Reach F, Reach G, and Reach H). The excavation and ISS remedial activities within the Northern Parcel were documented in the August 9, 2005, *Northern Parcel Corrective Action Closure Report* prepared by MACTEC (currently known as Wood Environment & Infrastructure Solutions, Inc. [Wood]) and approved by the Georgia Department of Natural Resources, Environmental Protection Division (EPD) on February 24, 2006.

In-situ chemical oxidation (ISCO) of the church area (Block E), along the 8th Street ROW, within the Gas Station parcel, and along the Walton Way ROW was completed in November 2005. A *Corrective Action Closure Report (CACR)* for these off-site areas (operable units [OU], OU-1 and OU-2) was submitted by MACTEC (currently known as Wood) on January 16, 2009, and was approved by EPD in a letter dated March 30, 2009. A separate CACR was also prepared for the Third Level Canal (OU-3) following completion of remediation activities adjacent to the CSX Railroad property. The CACR for OU-3 was submitted by MACTEC (currently known as Wood) on January 16, 2009, and approved by EPD in a letter dated March 30, 2009. A bedrock groundwater extraction and treatment system operated at the Site from November 2006 through June 2015. Groundwater was extracted from MW-307BR and MW-308BR, treated via activated carbon, and discharged to the publicly owned treatment works (POTW).

A supplemental bedrock investigation was performed by AECOM in July 2008 and included the installation of nine additional bedrock monitoring wells (MW-503BR, MW-504BR and MW-506BR through MW-512 BR). Results of this investigation are summarized in AECOM's *Bedrock Groundwater Investigation Report* dated February 19, 2009. All the installed bedrock monitoring wells were subsequently added to the monitoring network.

In correspondence dated March 6, 2009, AGLC responded to EPD's comments to the *4th Corrective Action Effectiveness Report* (CAER) and provided a proposed approach and timeframe to develop a Site Conceptual Model (SCM) and conduct groundwater modeling (following approval by EPD of the SCM), and prepare a feasibility study (FS; following approval by EPD of the Ground Water Modeling Report) in order to address the Site as a whole and better define an effective path to closure. A draft SCM dated June 19, 2009, was submitted to EPD by Environmental Cost Management, Inc. (ECM) on behalf of AGLC. A revised SCM, addressing EPD comments dated August 3, 2009, was submitted by ECM on October 2, 2009. The revised SCM presented changes to the well network that were approved in EPD's August 3, 2009, letter. These changes to the monitoring well network were incorporated into the current sampling event. A revised SCM was submitted to EPD on December 28, 2009, and approved by EPD in a letter dated March 19, 2010.

A supplemental data gap investigation was performed by ECM in October 2010 in accordance with the recommendations of the December 2009 SCM. The investigation included the installation of one additional bedrock monitoring well (MW-513BR), and the installation of four additional Galliard Formation monitoring wells (MW-600, MW-601, MW-602, and MW-603). In addition, one alluvium well (MW-04) and five Galliard Formation wells (MW-18, MW-201, MW-210, MW-305, and MW-407D) were decommissioned based on the recommendations of the EPD-approved SCM. In addition, MW-408D was abandoned and replaced with MW-408DR. Results of this investigation are summarized in ECM's *Data-Gap Investigation and Monitoring Well Installation/Decommissioning Report* dated February 14, 2011. The monitoring wells installed in 2010 are included in the current monitoring well network.

The results of the 2010 data gap investigation were incorporated in ECM's *Site Conceptual Model Addendum* (SCM Addendum) dated February 17, 2012. The SCM Addendum recommended an overall reduction to the monitoring well network, and the continued inclusion of bedrock monitoring wells MW-504BR and MW-510BR within the well network to monitor plume control. In a May 23, 2012 letter, the EPD approved a number of the reductions, including the abandonment of five wells (two Galliard: MW-23, MW-211 and three saprolite: MW-11, MW-312, and MW-314), and the elimination of sampling and/or gauging in a number of Discrete Depth Sampling Port (DDSP) wells. Well abandonment work was completed in July 2012, with the exception of MW-211, which was not abandoned due to access issues and will be abandoned during future activities. Ongoing groundwater monitoring reflects the revised monitoring well network, which was documented in Table 3-8 of ECM's June 22, 2012 response to the EPD's May 23, 2012 letter.

The *Ground Water Flow and Transport Model* report was submitted to the EPD by ECM on June 5, 2012. The EPD provided comments on June 29, 2012. In general, the comments discussed the need for inclusion of a sensitivity analysis and a detailed calibration of the model results to historical monitoring data. A response with the additional analysis was provided to the EPD on August 14, 2012. In accordance with the Site-wide approach developed in 2009, a FS was prepared based on the results of the SCM Addendum and the groundwater modeling. The FS was submitted to the EPD on December 13, 2012, and recommended excavation in Block C (D'Antignac Street), with monitored natural attenuation (MNA) in the street areas and Block E as access issues, utilities, and the presence of buildings limit effective implementation of a remedy. The FS also recommended discontinuing operation of the bedrock groundwater extraction system.

EPD provided comments to the FS in correspondence dated October 9, 2013, and required that actions be taken to address remaining source materials in all areas of the Site, including the street areas and Block E. Rather than submitting a revised FS, the EPD requested that the comments be addressed in a Revised Corrective Action Plan (RCAP). In subsequent meetings and correspondence with EPD, it was agreed that AGLC would submit a RCAP by August 29, 2014.

After further evaluation and coordination, AGLC and EPD agreed that the Augusta MGP Site was a candidate for enrollment in the VRP. AGLC received a letter from EPD concurring with entering the Augusta MGP Site into the VRP contingent on execution of a new Consent Order moving the Augusta MGP Site into the VRP as well as submittal of an acceptable VIRP in lieu of a RCAP by August 28, 2014, consistent with the original RCAP submittal deadline. Proposed Consent Order EPD-VRP-011 was transmitted by EPD to AGLC on June 27, 2014 for review and signature. AGLC signed the proposed Consent Order and transmitted back to EPD on July 22, 2014. The public notice period for the proposed Consent Order EPD-VRP-011 closed on September 10, 2014. Additionally, to demonstrate AGLC's commitment to enrolling the Augusta MGP Site in the VRP, AGLC submitted an initial VRP Application Form and Checklist with associated VRP application fee on August 6, 2014.

On behalf of AGLC, AMEC (currently known as Wood) submitted the VIRP to EPD on August 28, 2014. The VIRP provided the proposed remediation approach, schedule, and supporting documentation, and included an updated VRP Application form. The EPD approved the VRP application in a December 3, 2014 letter, which also set forth the required schedule for submittal of semiannual progress reports on June 1st and December 1st of each year, and additional requirements for the December 1, 2017 progress report. A second letter from EPD, also dated December 3, 2014, provided additional technical comments on the VIRP, which were addressed in subsequent progress reports.

Six semiannual VRP progress reports have been submitted prior to this report. In addition to the Corrective Action Effectiveness Reports (CAERs) included with each progress report, the following information was provided:

- First report from June 2015: Included a vapor intrusion risk assessment, former closure approval letters, surface water laboratory results, and parcel affidavits in response to EPD's December 3, 2014 letter.
- Second report from December 2015: Included a well survey, a well abandonment report for seven groundwater monitoring wells (which were located on Georgia Power property to facilitate expansion of the Fenwick Street substation), and a report to evaluate the effectiveness of the bedrock groundwater extraction system.
- Third report from June 2016: Included responses to EPD's December 3, 2014 letter, residential building demolition documentation, additional investigation documentation related to installation of additional groundwater monitoring wells, and a revised vapor intrusion report.
- Fourth report from December 2016: Included a well survey and well construction information for monitoring well MW-603SAP.
- A letter from EPD, dated April 27, 2017, provided comments on the first four semiannual status reports. These comments include approval of the Type 5 RRS area in the southeast quadrant of the Fenwick Street and 9th Street intersection, approval of the proposed abandonment of 20 groundwater monitoring wells, acceptance of additional qualifying properties, and request of the court-recorded covenant associated with the site.
- Fifth report from June 2017 included responses to EPD's April 27, 2017 letter.
- Sixth report from December 2017: Included a well abandonment report for 20 groundwater monitoring wells, a well survey, and vertical delineation documentation.

2.0 Site Activities

Site activities completed during this reporting period are summarized in the following sections. Progress during this reporting period has been primarily focused on subcontractor selection and preparing for remediation implementation. In addition, semiannual groundwater data was collected from existing wells, and the results of this sampling, as well as observations from the *Continuing Action Monitoring Plan* inspection, have been documented in a Corrective Action Effectiveness Report included as Appendix A.

2.1 Groundwater Monitoring

Groundwater monitoring at the Site was performed in January 2018. The *January 2018 Semi-Annual Corrective Action Effectiveness Report* is included as Appendix A. Figure 2-1 presents the current monitoring well network at the Site, as well as the approximate limits of remediation. Approximate extents of dissolved phase impacts in the Galliard and Bedrock formations for January 2018 sampling are presented in Figures 2-2 and 2-3, respectively. Concentrations observed in monitoring wells and the extent of dissolved phase impacts are generally similar to previous sampling events.

Groundwater monitoring will continue semi-annually consistent with the current program until in-situ solidification (ISS) is initiated. Wells located within the ISS footprint were abandoned in October 2017, as shown in Table 2-1 and Figure 2-1.

A modified program with a subset of existing monitoring wells will be sampled during ISS implementation to continue to evaluate groundwater quality. The wells planned for monitoring during ISS implementation are presented on Table 2-1 and Figure 2-4. After implementation of ISS is completed, localized groundwater flow above the saprolite will be altered by the solidified ISS mass. Additionally, permeability and leaching potential will be greatly reduced within the ISS mass footprint. For these reasons, locations of potential new/replacement wells will be identified after completion of ISS activities and after an evaluation of post ISS groundwater data from the retained wells has been completed.

2.2 Design

The 60 percent remedial design was finalized as referenced in the *3rd VRP Semi-Annual Status Report* to support implementation of the site-wide ISS remedy for the saturated zone source impacts. A request for proposal (RFP) based on the 60 percent design was issued to potential remediation subcontractors on January 12, 2017, and bids were received and evaluated. However, the selected remedy contemplated removing the former church building on Block E. Due to uncertainty surrounding removal of the former church building and the potential impacts to design and sequencing, the final design and subcontractor selection was delayed to allow unrelated third parties time to make arrangements for relocating the historic structure.

To expand on the uncertainty surrounding the removal of the former church building, AGLC originally submitted a Certificate of Appropriateness (COA) application on August 2, 2016, to obtain a permit to demolish the structure so as to allow for implementation of the selected remedy. As previously reported, on August 17, 2016, AGLC received a letter from the Augusta Canal Authority (ACA) requesting that AGLC withdraw the COA application so that the ACA could take advantage of a Federal grant with the Partners for Sacred Places to explore relocation and possible uses for the structure. Therefore, AGLC withdrew the August 2016 COA application and allowed a newly formed Community Group comprised of approximately 20 local leaders a chance to raise funds needed to move and preserve the building. AGLC gave the Community Group until the end of April 2017 to have its evaluation performed, funds procured, and have a determination made if they were going to move the building. Following the Community Group's request for more time, AGLC wrote a May 8, 2017 letter giving them another 60 days to fulfill a number of

conditions, including that they identify a qualified organization to take ownership of the structure and carry out its timely relocation and demonstrate that they had sufficient funds to relocate, refurbish, and maintain the structure in perpetuity.

Following the Community Group's failure to meet the required conditions, on July 6, 2017, AGLC re-filed the COA application with the Augusta Historic Preservation Commission (AHPC) to demolish the church. The AHPC denied the COA in the hearing on July 27, 2017. Although the schedule for remediation remained uncertain following denial of the COA in July 2017, AGLC nonetheless proceeded with initial asbestos abatement activities to help streamline demolition or relocation activities once resolution regarding the church was finalized.

AGLC appealed AHPC's denial and, making use of the mandatory mediation process set forth in the Ordinance, reached a series of agreements under which the Augusta Canal Authority has until June 15, 2018, to relocate the church and, if they are unable to do so, a COA for demolition will automatically become effective. With that resolution in hand, the remediation design documents were submitted to the Augusta Planning and Development Department for distribution to the various reviewing entities. At the time this report was prepared, AGLC had received comments from the Augusta Utilities Department. Edits to the design documents were initiated to incorporate the Utilities Department comments. Additional comments from the City of Augusta will be incorporated into the design documents as they are received.

It should be noted that remediation approach for the area below the high voltage transmission lines along Eighth Street has changed. The original concept for performing ISS remediation below the high voltage transmission lines on Eighth Street contemplated relocation of the transmission lines. Relocation of the transmission lines was to coincide with expansion of the Fenwick Street Substation. Delays associated with resolution of the former Trinity Church building resulted in AGLC missing the window of opportunity to coordinate relocation of the transmission lines concurrent with the Fenwick Street Substation expansion. This resulted in AGLC researching other techniques to remediate the shallow saturated zone material beneath the high voltage transmission lines. Remediation contractors were consulted and they indicated that the shallow saturated zone material could be remediated using specialized ISS equipment while the high voltage transmission lines remain in place. However, the "No Dig" radius imposed around the support pole and guy anchor at the corner of Walton Way and Eighth Street will result in untreated material being left in place. AGLC anticipates that the untreated material will be addressed by installing ISS columns around the "No Dig" radius and installing an impermeable cover over the untreated area to encapsulate the untreated material. The untreated material within the "No Dig" radius of the support pole and guy anchor would then be designated a Type 5 area.

AGLC has made the decision to purchase the gas station property located at 801 Walton Way, Augusta, GA 30901 to facilitate implementation of ISS remediation on this property. The gas station property acquisition is currently in the due diligence period. The remediation design is currently being updated to incorporate this property into the overall remediation program. AGLC expects to close on the property in mid-June 2018. After AGLC acquires the gas station property and the remediation subcontractor has mobilized to the site, work on the gas station property will commence. This work will be performed in a sequenced manner and include closure the underground storage tank (UST) system, demolition of the gas station infrastructure, and ISS remediation on the BPLM impacted shallow saturated zone materials. Closure of the UST system will follow EPD UST Regulations. ISS Remediation for this area will be performed consistent with the remediation design developed for the remainder of the Site.

AGLC reached out to the selected bidders to confirm their bid status and personnel availability to move forward with contractor selection and design. A tentative selection of a remediation subcontractor has been made and the early stages of subcontractor procurement has been initiated. Once procurement with the selected subcontractor has been completed, AGLC will move forward with completion of the

remediation design, although the final design will be contingent on successful relocation or removal of the church structure.

In light of the foregoing, we anticipate mobilization to occur in June 2018 and remediation activities to begin in or before July 2018. Remediation is expected to take approximately 18 months to complete and an additional three months will be required to complete site restoration activities. The updated project schedule (attached as Figure 4-1) anticipates remedial design completion and mobilization in the first part of the third quarter of 2018 to implement the remedy. As requested by the City, this schedule also allows for shut-down time required before, during, and after the Masters Tournaments each year.

3.0 Additional Qualifying Parcels

The properties previously qualifying for the VRP include parcels 108, 109, 143, 185, 186, 187, 188, 189, 225, 227, 228, 229, 230, 231, 236, 237, 248, 327.2, 327.1, 328, 329, 330, 346, 374.1, and 764 owned by AGLC, parcels 229, 236, 237, 331, 332, 333, 335, 337, 338, 345, and 347 owned by Miracle Making Ministries (MMM), parcels 248, 330, and 339 owned by AGLC but leased by MMM, and Walton Way and 8th Street as shown on Figure 3-1.

All of these properties are either listed on the Georgia Hazardous Site Inventory or otherwise have a release of regulated substances into the environment. None of these properties are listed on the federal National Priorities List, are undergoing response activities required by an USEPA order, or are a facility required to have a permit under O.C.G.A 12-8-66. AGLC is the owner of these properties or has express permission of the owner to enroll the qualifying properties in the VRP. AGLC is exploring options to qualify the gas station parcels 374.2 and 375 under the VRP. Other potential qualifying properties will be addressed following remediation and subsequent groundwater monitoring.

4.0 Conclusions and Recommendations

Based on the results of the recent Site assessments and activities, we offer the following conclusions and recommendations:

- Groundwater will continue to be sampled semi-annually consistent with the current program until construction is initiated. A modified program with a subset of existing wells will be sampled during ISS implementation to continue to evaluate groundwater quality.
- Locations of potential new/replacement wells will be identified after completion of remediation activities and after an evaluation of post ISS groundwater data from the subset of retained wells has been completed.
- Subcontractor bids for implementation of ISS have been obtained and evaluated, and AGLC will move forward with subcontractor procurement now that the path forward for the former church building is more certain.

5.0 Next Submittal

As required by current EPD approval of the VIRP, semi-annual progress reports must be submitted to EPD every June 1st and December 1st beginning in 2015 and ending in 2020. As previously mentioned, the VRP schedule has been affected by delays associated with resolution of the former Trinity Church building. If deemed necessary by EPD and AGLC, a formal extension to the VRP schedule will be filed in accordance with provisions stipulated in the Consent Order and/or the Georgia VRP Act. The revised schedule attached as Figure 4-1 takes into consideration delays associated with the former church building. A report for the 8th semi-annual period will be submitted by December 1, 2018 and is planned to include the following activities:

- Semi-annual groundwater monitoring reporting
- Schedule update for remediation progress
- Interim summary of corrective action activities

6.0 References

AMEC, 2014. *Voluntary Investigation and Remediation Plan, Atlanta Gas Light Company, Augusta, Georgia*. Prepared by AMEC Environment & Infrastructure, Inc., August 2014.

Amec Foster Wheeler, 2015a. Volu*ntary Remediation Program 1st Semi-Annual Status Report, Atlanta Gas Light Company, Former Manufactured Gas Plant Site, Augusta, Georgia.* Prepared by Amec Foster Wheeler Environment & Infrastructure, Inc., May 2015.

Amec Foster Wheeler, 2015b. *Voluntary Remediation Program 2nd Semi-Annual Status Report, Atlanta Gas Light Company, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by Amec Foster Wheeler Environment & Infrastructure, Inc., December 2015.

Amec Foster Wheeler, 2016a. *Voluntary Remediation Program 3rd Semi-Annual Status Report, Atlanta Gas Light Company, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by Amec Foster Wheeler Environment & Infrastructure, Inc., June 2016.

Amec Foster Wheeler, 2016b. *Voluntary Remediation Program 4th Semi-Annual Status Report, Atlanta Gas Light Company, Former Manufactured Gas Plant Site, Augusta, Georgia.* Prepared by Amec Foster Wheeler Environment & Infrastructure, Inc., December 2016.

Amec Foster Wheeler, 2017a. *Voluntary Remediation Program 7th Semi-Annual Status Report, Atlanta Gas Light Company, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by Amec Foster Wheeler Environment & Infrastructure, Inc., June 2017.

Amec Foster Wheeler, 2017b. *Voluntary Remediation Program 6th Semi-Annual Status Report, Atlanta Gas Light Company, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by Amec Foster Wheeler Environment & Infrastructure, Inc., December 2017.

RETEC, 2003. *Remedial Investigation – Sitewide (Augusta MGP Site, Third Level Canal and Off-Site Properties), Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by RETEC Group Inc., April 11, 2003

Tables

Table 2-1
Monitoring Well Status
Atlanta Gas Light Company
Former Manufactured Gas Plant
Augusta, Georgia

Well	Type	Monitored/Gauged During ISS Implementation
Alluvium Wells		
MW-05	II	Gauge
MW-17	II	Gauge
MW-306S	DDSP	Gauge
MW-401S	II	Abandoned
MW-402S	II	Gauge
MW-408S	II	Gauge
MW-501S	II	Gauge
Galliard Wells		
MW-12	II	Gauge
MW-19	II	Gauge
MW-21	II	Gauge
MW-22	II	Gauge
MW-24	II	Gauge
MW-25	II	Gauge
MW-202DR	II	Abandoned
MW-203	II	Gauge
MW-205	II	Abandoned
MW-206	II	Gauge
MW-207	II	Gauge
MW-211	II	*
MW-303	II	Gauge
MW-304	II	Gauge
MW-306D	DDSP	Gauge
MW-307D	DDSP	Abandoned
MW-309D	DDSP	Gauge
MW-310D	DDSP	Gauge
MW-401D	II	Abandoned
MW-402D	II	Gauge
MW-404DR	II	Gauge
MW-408DR	II	Gauge
MW-502D	II	Abandoned
MW-505D	II	Gauge

Table 2-1
Monitoring Well Status
Atlanta Gas Light Company
Former Manufactured Gas Plant
Augusta, Georgia

Well	Type	Monitored/Gauged During ISS Implementation
Galliard Wells		
MW-600	II	Abandoned
MW-601	II	Abandoned
MW-602	II	Gauge
MW-603	II	Sample
MW-604	II	Abandoned
MW-605	II	Abandoned
MW-606	II	Abandoned
MW-607	II	Gauge
Saprolite Wells		
MW-214	II	Gauge
MW-306SAP	DDSP	Gauge
MW-307SAP	DDSP	Abandoned
MW-309SAP	DDSP	Gauge
MW-310SAP	DDSP	Gauge
MW-311	II	Gauge
MW-317	II	Gauge
MW-401SAP	II	Abandoned
MW-603SAP	II	Abandoned
Bedrock and Transition Zone Wells		
MW-213	III	Abandoned
MW-306BR	III	Sample
MW-306TZ	DDSP	Gauge
MW-307BR	III	Abandoned
MW-307TZ	DDSP	Abandoned
MW-308BR	III	Abandoned
MW-309BR	III	Sample
MW-309TZ	DDSP	Gauge
MW-310BR	III	Sample
MW-310TZ	DDSP	Gauge
MW-313	III	Sample

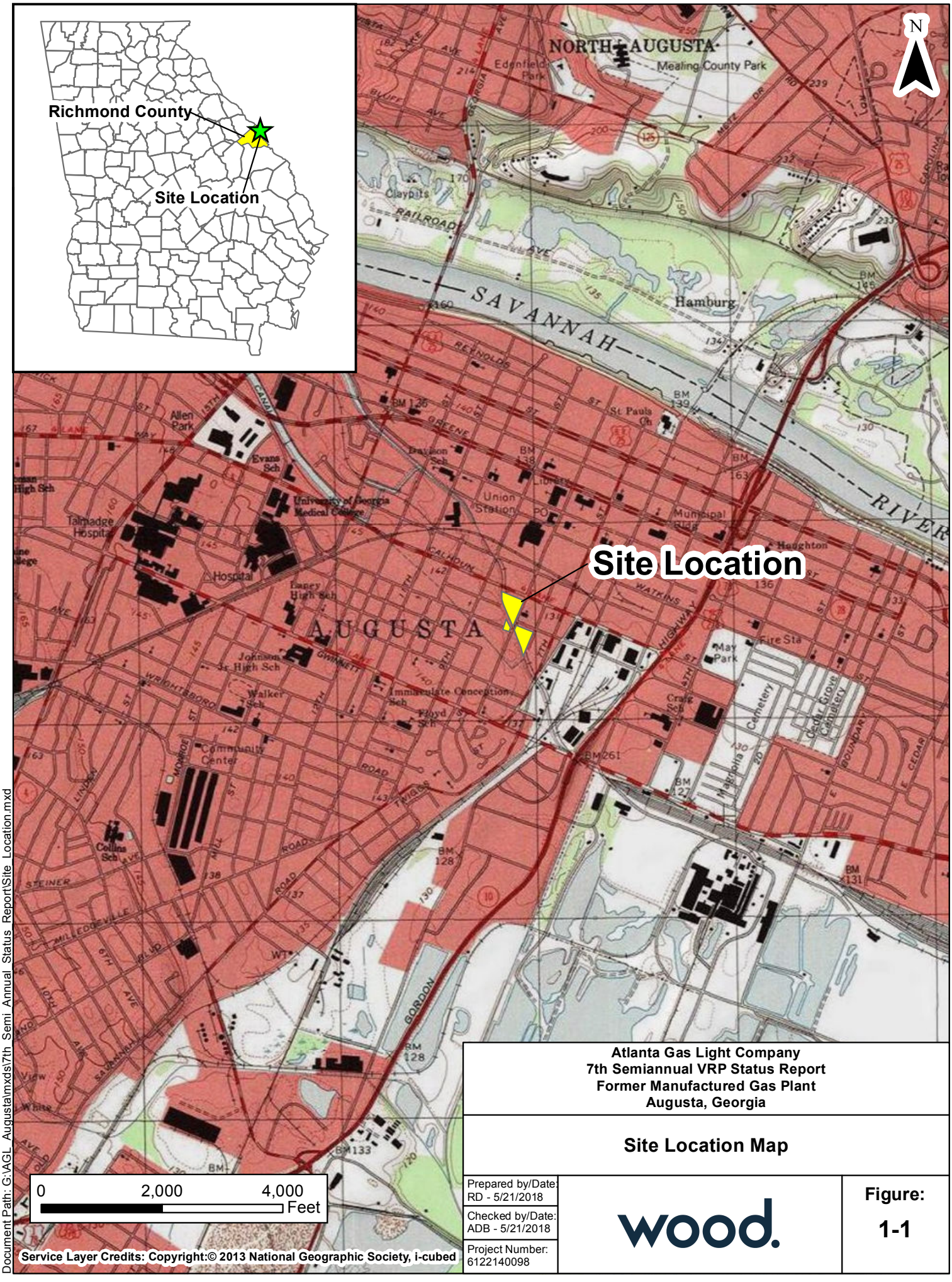
Table 2-1
Monitoring Well Status
Atlanta Gas Light Company
Former Manufactured Gas Plant
Augusta, Georgia

Well	Type	Monitored/Gauged During ISS Implementation
Bedrock and Transition Zone Wells		
MW-315	III	Sample
MW-316	III	Abandoned
MW-318	III	Sample
MW-319	III	Sample
MW-320	III	Sample
MW-321	III	Abandoned
MW-322	III	Abandoned
MW-323	III	Abandoned
MW-324	III	Abandoned
MW-325	III	Sample
MW-500BR	III	Sample
MW-503BR	III	Abandoned
MW-504BR	III	Abandoned
MW-506BR	III	Destroyed
MW-507BR	III	Sample
MW-508BR	III	Sample
MW-509BR	III	Abandoned
MW-510BR	III	Abandoned
MW-511BR	III	Abandoned
MW-512BR	III	Abandoned
MW-513BR	III	Sample

Notes:
DDSP - depth discrete sampling poin
II - double cased well
III - triple cased well
* Planned for abandonment but unable to access well location

Prepared by: LSM 10/30/2015
Checked by: ADB 11/2/2015
Updated by: ADB 11/21/2017

Figures



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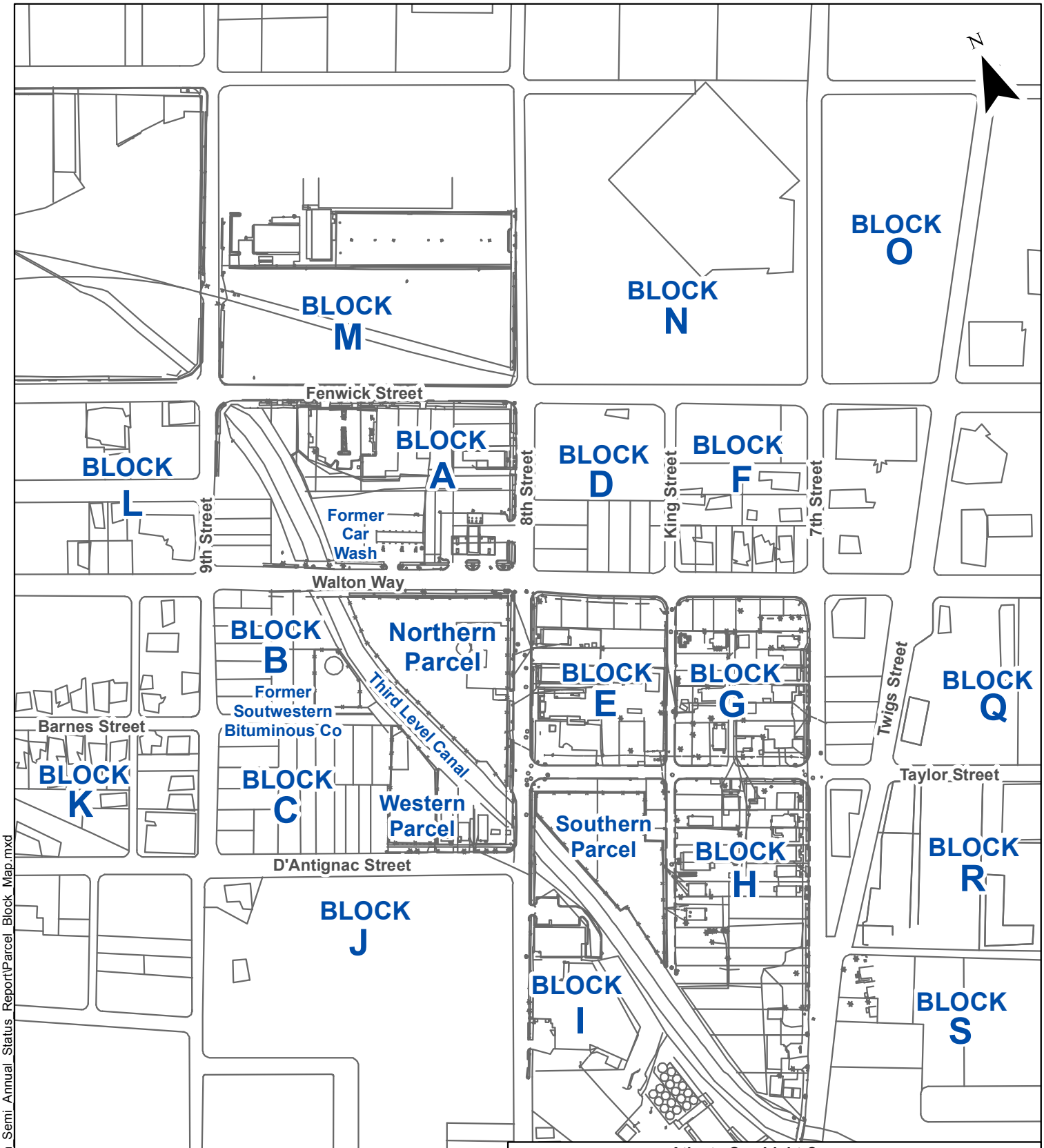
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Former Manufactured Gas Plant
Augusta, Georgia

Site Location Map

Prepared by/Date: RD - 5/21/2018	
Checked by/Date: ADB - 5/21/2018	
Project Number: 6122140098	

wood.

Figure:
1-1



Source: Environmental Cost Management 2012, Feasibility Study

Atlanta Gas Light Company
7th Semiannual VRP Status Report
Former Manufactured Gas Plant
Augusta, Georgia

Parcel Block Map - City of Augusta

Prepared by/Date: RD - 5/21/2018	
Checked by/Date: ADB - 5/21/2018	
Project Number: 6122140098	wood.

Figure: 1-2

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Legend

- Abandoned Depth -Discrete Sampling Port
- Abandoned Monitoring Well
- Abandoned Recovery Well
- Monitoring Well - Alluvium
- Monitoring Well - Bedrock
- Monitoring Well - Galliard
- Monitoring Well - Saprolite
- Recovery Well - Bedrock
- Depth-Discrete Sampling Port - Alluvium
- Depth-Discrete Sampling Port - Galliard
- Depth-Discrete Sampling Port - Saprolite
- Depth-Discrete Sampling Port - Transition Zone
- Approximate Limits of Planned ISS
- ISCO (In Situ Chemical Oxidation) Area
- Existing ISS (In Situ Solidification) Area

Notes:
* - Planned for well abandonment but unable to access well location – not sampled
** - Destroyed – not sampled

N

Telfair Street
Walker Street
Walton Way
Fenwick Street
D'Antignac Street
Taylor Street
9th Street
8th Street
7th Street
King Street

MW-319
MW-320
MW-318
MW-317
MW-315
MW-607
MW-513BR
MW-325
MW-408S
MW-408DR
MW-603
MW-603SAP
MW-501S
MW-404DR
MW-502D
MW-306SAP
MW-306BR
MW-306S
MW-306D
MW-306TZ
MW-512BR
MW-600
MW-511BR
MW-503BR
MW-504BR
MW-323
MW-324
MW-321
MW-316
MW-307D
MW-307SAP
MW-307TZ
MW-307BR
MW-322
MW-24
MW-21
MW-310D
MW-310TZ
MW-310SAP
MW-310BR
MW-402S
MW-402D
MW-510BR
MW-211*
MW-202DR
MW-601
MW-509BR
MW-313
MW-19
MW-308BR
MW-205
MW-203
MW-213
MW-214
MW-17
MW-604
MW-606
MW-401S
MW-401SAP
MW-401D
MW-605
MW-500BR
MW-22
MW-311
MW-12
MW-25
MW-206
MW-508BR
MW-207
MW-506BR**
MW-05
MW-309D
MW-309SAP
MW-309BR
MW-309TZ
MW-505D
MW-304
MW-303
MW-507BR
MW-602

0 225 450 Feet

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Atlanta Gas Light Company
7th Semiannual VRP Status Report
Former Manufactured Gas Plant
Augusta, Georgia

Monitoring Well Locations

Prepared by/Date: RD - 5/21/2018	Figure: 2-1
Checked by/Date: ADB - 5/21/2018	
Project Number: 6122140098	

wood.

Legend

- Monitoring Well - Galliard
- Depth-Discrete Sampling Port - Galliard
- Approximate Extent of Dissolved Phase Impacts in Galliard Above Type 1 Risk Reduction Standards
- Approximate Limits of Planned ISS
- ISCO (In Situ Chemical Oxidation) Area
- Existing ISS (In Situ Solidification) Area

N

MW-408DR NE
MW-607 NS
MW-603 NS, DNAPL
MW-23 NS
MW-404DR NE
MW-306D NE
MW-24 NS
MW-21
MW-310D NS
MW-402D NE
MW-211 NS
MW-19 NE
MW-203 NE
MW-22 NE
MW-12
MW-25 NS
MW-206 NE
MW-207 NE
MW-309D NS
MW-505D
MW-304
MW-303 NE
MW-602 NE

9th Street
Fenwick Street
7th Street
Walton Way
8th Street
D'Antignac Street
Taylor Street
King Street

MW-21	
Constituent	**Result**
Trichloroethylene	8.3

MW-12	
Constituent	**Result**
Benzene	**11,000 (11,000)**
Ethylbenzene	**2,400 (2,400)**
Naphthalene	5,500 (6,500)
Phenanthrene	13 (14)
Toluene	**920 (940)**

MW-304	
Constituent	**Result**
Benzene	**300**
Naphthalene	220

MW-505D	
Constituent	**Result**
Naphthalene	130

A trichloroethylene result of 10 ug/L and a cadmium result of 0.0162 mg/L were reported in well MW-401D in July 2017 for the 6th Semiannual Status Report before the well was abandoned in October 2017.

0 225 450 Feet

Notes:
1. Organic Constituents are reported in µg/L.
2. Inorganic Constituents are reported in mg/L.
3. NS - Not Sampled
4. NS, DNAPL - Not Sampled, DNAPL Present
5. NE - No Exceedance
6. Detections Shown Exceed Type 1 Groundwater Risk Reduction Standards.
7. Duplicate Values Shown in Parentheses After Parent.

Atlanta Gas Light Company
7th Semiannual VRP Status Report
Former Manufactured Gas Plant
Augusta, Georgia

Galliard Groundwater
Approximate Extent of Dissolved Phase Impacts
January 2018

Prepared by/Date: RD - 5/21/2018
Checked by/Date: ADB - 5/21/2018
Project Number: 6122140098

wood.

Figure: 2-2

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Legend

- Monitoring Well - Bedrock
- Depth-Discrete Sampling Port - Transition
- Approximate Extent of Dissolved Phase Impacts in Bedrock Above Type 1 Risk Reduction Standards for Site
- Approximate Limits of Planned ISS
- ISCO (In Situ Chemical Oxidation) Area
- Existing ISS (In Situ Solidification) Area

N

MW-318	
Constituent	**Result**
Benzene	59

MW-306BR	
Constituent	**Result**
Naphthalene	330 (360)

MW-500BR	
Constituent	**Result**
Benzene	17,000
Ethylbenzene	1,800
Naphthalene	3,900
Phenanthrene	17

MW-319 NE
MW-320 NE
MW-318
MW-315 NE
MW-513BR NE
MW-325 NE
MW-306BR
MW-306TZ NS
MW-310TZ NS
MW-310BR NE
MW-313 NE
MW-500BR
MW-508BR NE
MW-506BR NS*
MW-309TZ NS
MW-309BR NE
MW-507BR NE

Telfair Street
Walker Street
Fenwick Street
9th Street
Walton Way
8th Street
7th Street
D'Antignac Street
Taylor Street
King Street

0 225 450 Feet

Notes:
1. Organic Constituents are reported in µg/L.
2. Inorganic Constituents are reported in mg/L.
3. NS - Not Sampled
4. NS* - Not Sampled, Destroyed by the City
5. NE - No Exceedance
6. Detections Shown Exceed Type 1 Groundwater Risk Reduction Standards.
7. Duplicate Values Shown in Parentheses After Parent.

Atlanta Gas Light Company
7th Semiannual VRP Status Report
Former Manufactured Gas Plant
Augusta, Georgia

Bedrock Groundwater Approximate Extent of Dissolved Phase Impacts January 2018

Prepared by/Date: RD - 5/21/2018	Figure: 2-3
Checked by/Date: ADB - 5/21/2018	
Project Number: 6122140098	

wood.

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Legend

- Monitoring Well - Alluvium
- Monitoring Well - Bedrock
- Monitoring Well - Galliard
- Monitoring Well - Saprolite
- Proposed Well - Bedrock
- Recovery Well - Bedrock
- Depth-Discrete Sampling Port - Alluvium
- Depth-Discrete Sampling Port - Galliard
- Depth-Discrete Sampling Port - Saprolite
- Depth-Discrete Sampling Port - Transition Zone
- Approximate Limits of Planned ISS
- ISS Area
- Planned ISS Columns based on current 60% design
- Planned construction extent based on current 60% design
- MW-205 Well To be Monitored During Implementation
- MW-217 Well To be Gauged Only During Implementation

Notes:
* - Planned for well abandonment but unable to access well location – not sampled
** - Destroyed – not sampled

N

MW-319
MW-408S
MW-408DR
MW-320
MW-318
MW-317
MW-315
MW-513BR
MW-603
MW-325
MW-501S
MW-404DR
MW-306SAP
MW-306BR
MW-306S
MW-306D
MW-306TZ
MW-24
MW-21
MW-310D
MW-310TZ
MW-310SAP
MW-310BR
MW-402S
MW-402D
MW-211*
MW-313
MW-19
MW-203
MW-17
MW-22
MW-214
MW-500BR
MW-12
MW-311
MW-25
MW-206
MW-508BR
MW-207
MW-506BR**
MW-309D
MW-05
MW-309SAP
MW-309BR
MW-309TZ
MW-505D
MW-304
MW-303
MW-507BR
MW-602

0 225 450 Feet

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Atlanta Gas Light Company
7th Semiannual VRP Status Report
Former Manufactured Gas Plant
Augusta, Georgia

Well Locations to be Monitored During ISS Implementation

Prepared by/Date: RD - 5/21/2018	Figure: 2-4
Checked by/Date: ADB - 5/21/2018	
Project Number: 6122140098	

wood.

PARCEL	OWNER	ADDRESS	DESCRIPTION
143	AGLC	829 Barnes Street	Land, adjacent to canal
189	AGLC	Barnes Street	Western Parcel - land
185	AGLC	Dantignac Street Western Parcel	Land, adjacent to canal
225	AGLC	Walton Way Northern Parcel	Adjacent to canal
327.1	AGLC	902 Taylor Street Southern Parcel	Land, adjacent to canal
327.2	AGLC	902 Taylor Street Southern Parcel	Land, adjacent to canal
328	AGLC	718 Taylor Street	Land
329	AGLC	709 Taylor Street	Land
346	AGLC	925 7th Street	Land
108	AGLC	709 8th Street	Land (house burned down)
109	AGLC	713 8th Street	Land
227	AGLC	808 8th Street	House
229	MMM	814 8th Street	Land
374.1	AGLC Leased to MMM	Walton Way	Car Wash, adjacent to canal
764*	AGLC Leased to MMM	706 Ninth Street	Land, adjacent to canal
186	AGLC Leased to MMM	811 Dantignac Street	Land, adjacent to canal
187	AGLC Leased to MMM	809 Dantignac Street	Land, adjacent to canal
188	AGLC Leased to MMM	807 Dantignac Street	Land, adjacent to canal
230	AGLC Leased to MMM	731 Taylor Street	Church
231	AGLC Leased to MMM	727 Taylor Street	Church
339	AGLC Leased to MMM	932 King Street	Land, adjacent to canal
248	AGLC Leased to MMM	717 Taylor Street	Land
330	AGLC Leased to MMM	716 Taylor Street	Land
228	AGLC	812 8th Street	Land
237	MMM	805 King Street	Land
236	MMM	807 King Street	Land
244	MMM	808 King Street	Land
245	MMM	810 King Street	Land
332	MMM	908 King Street	Land
331	MMM	906 King Street	House
333	MMM	912 King Street	Land
335	MMM	920 King Street	House
337	MMM	926 King Street	Land
338	MMM	928 King Street	Land
345	MMM	927 7th Street	Land
347	MMM	921 7th Street	Land

Notes:
AGLC Atlanta Gas Light Company
MMM Miracle Making Ministries
* Parcel 764 is comprised of former parcels 93-98

BLOCK M
BLOCK A
BLOCK B
BLOCK E
BLOCK G
BLOCK J
BLOCK I
BLOCK H
BLOCK T
BLOCK R
BLOCK S

9th Street
Fenwick Street
Walton Way
8th Street
Taylor Street
King Street

0 150 300 Feet

Legend
- 225 Parcels Included in Table
- Other Qualifying Properties
- AGLC Owned and Controlled Properties
- AGLC Owned and Leased to Miracle Making Ministries
- Owned by Miracle Making Ministries
- Owned by City of Augusta

Atlanta Gas Light Company
7th Semiannual VRP Status Report
Former Manufactured Gas Plant
Augusta, Georgia

Qualifying Properties

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Project Number: 6122140098

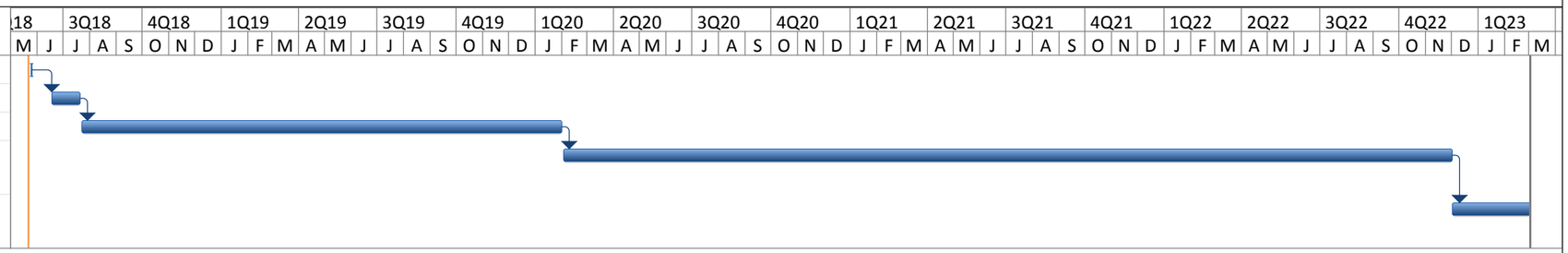
wood.

Figure: 3-1

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Updated Schedule for VRP Activities
AGLC - Augusta

ID	Task Name	Duration	Start	Finish
1	Subcontract Award	1 day	Fri 5/25/18	Fri 5/25/18
2	Mobilization	25 days	Mon 6/18/18	Fri 7/20/18
3	Remedy Implementation	400 days	Mon 7/23/18	Fri 1/31/20
4	Post Remediation Groundwater Monitoring	739 days	Mon 2/3/20	Thu 12/1/22
5	Compliance Status Report Submittal	65 days	Fri 12/2/22	Thu 3/2/23



Project: 7th Semiannual VRP Status Report
Date: June 1, 2018

Task Milestone Manual Task

APPENDIX A

JANUARY 2018 CAER

Semiannual Corrective Action Effectiveness Report No. 23

Atlanta Gas Light Company Former Manufactured Gas Plant Site
Augusta, Richmond County, Georgia
HSI No. 10132
Project # 6122150235 Atlanta Gas Light Company

Prepared for:

Atlanta Gas Light Company
Ten Peachtree Place, Atlanta. Georgia 30309

5/31/2018

Semiannual Corrective Action Effectiveness Report No. 23

Atlanta Gas Light Company Former Manufactured Gas Plant Site
Augusta, Richmond County, Georgia
HSI No. 10132
Project # 6122150235 Atlanta Gas Light Company

Prepared for:

Atlanta Gas Light Company
Ten Peachtree Place, Atlanta. Georgia 30309

Prepared by:

Wood Environment & Infrastructure Solutions, Inc.
1075 Big Shanty Road
Suite 100
Kennesaw, Georgia 30144
USA
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5/31/2018

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Table of Contents

1.0 Introduction 1-1
2.0 Background 2-1
2.1 Groundwater Monitoring and Evaluation Studies 2-1
2.2 Scope of Work 2-2
2.2.1 Field Tasks 2-2
2.2.2 Reporting Tasks 2-2
2.3 Groundwater Monitoring Network 2-2
2.3.1 On-Site Wells Sampled 2-3
2.3.2 Off-Site Wells Sampled 2-3
2.4 Groundwater Sampling and Analysis 2-3
2.5 Quality Control/Quality Assurance Samples 2-4
2.6 Management of Investigation Waste 2-4
3.0 Groundwater Monitoring Results 3-1
3.1 Groundwater Flow and Elevations 3-1
3.2 Groundwater Analytical Results 3-3
3.2.1 Alluvium 3-3
3.2.2 Galliard Formation 3-3
3.3 Saprolite 3-4
3.3.1 Transition Zone 3-4
3.3.2 Bedrock 3-5
3.3.3 Quality Assurance, Quality Control, and Data Validation 3-5
4.0 Data Comparison and Summary 4-1
4.1 Alluvium Wells 4-1
4.2 Galliard Wells 4-1
4.3 Saprolite Wells 4-2
4.4 Transition Zone Wells 4-2
4.5 Bedrock Wells 4-2
5.0 Performance and Operations of Bedrock Groundwater Extraction System 5-1
6.0 Conclusions 6-1
7.0 References 7-1

List of Tables

2-1 Monitoring Well Network Summary
2-2 Monitoring Well Construction Summary
2-3 Site-Specific Constituents of Interest
3-1 Depth to Water and Groundwater Elevations – January 22, 2018
3-2 Groundwater Analytical Results for Alluvium Wells
3-3 Groundwater Analytical Results for Galliard Formation Wells
3-4 Groundwater Analytical Results for Saprolite Wells
3-5 Groundwater Analytical Results for Transition Zone Wells
3-6 Groundwater Analytical Results for Bedrock Wells
3-7 Detections and RRS Exceedances in the Alluvium Wells
3-8 Detections and RRS Exceedances in the Galliard Formation Wells
3-9 Detections and RRS Exceedances in the Saprolite Wells
3-10 Detections and RRS Exceedances in the Transition Zone Wells
3-11 Detections and RRS Exceedances in the Bedrock Wells

List of Figures

1-1 Site Location Map
2-1 Monitoring Well Locations
3-1 Groundwater Elevation Map for the Alluvium – January 22, 2018
3-2 Groundwater Elevation Map for the Galliard – January 22, 2018
3-3 Groundwater Elevation Map for the Saprolite – January 22, 2018
3-4 Hydraulic Potential Map for the Bedrock and Transition Wells – January 22, 2018
3-5 Type I RRS Exceedances for the Alluvium Wells – January 2018
3-6 Type I RRS Exceedances for the Galliard Formation Wells – January 2018
3-7 Type I RRS Exceedances for the Saprolite Wells – January 2018
3-8 Type I RRS Exceedances for Bedrock and Transition Wells – January 2018
3-9 Benzene and Naphthalene Isoconcentration Map for the Galliard Formation – January 2018
3-10 Benzene and Naphthalene Isoconcentration Map for the Bedrock Formation and Transition Wells – January 2018

List of Appendices

Appendix A Groundwater Sampling Log Sheets
Appendix B Laboratory Analytical Reports
Appendix C Seepage Velocity Calculations
Appendix D Analytical Data Validation Checklist
Appendix E-1 Summary of Historical Groundwater Sampling Data – Alluvium, Galliard, and Saprolite Monitoring Wells
Appendix E-2 Summary of Historical Groundwater Sampling Data – Transition Zone and Bedrock Monitoring Wells
Appendix E-3 Summary of Historical Groundwater Sampling Data – Decommissioned Monitoring Wells
Appendix F Concentration Trend Graphs
Appendix G Mass Removal Trend Graphs
Appendix H Continuing Action Monitoring Plan Inspection
Appendix I Investigation Waste Non-Hazardous Waste Manifest

List of Acronyms

Acronym/Abbreviation	Meaning
AES	Analytical Environmental Services
AGLC	Atlanta Gas Light Company
Amec Foster Wheeler	Amec Foster Wheeler Environment & Infrastructure, Inc.
CACR	Corrective Action Closure Report
CAER	Correction Action Effectiveness Report
CAP	Corrective Action Plan
COI	Constituent of Interest
DDSP	Discrete Depth Sampling Port
DNAPL	Dense Non-Aqueous Phase Liquid
DO	Dissolved Oxygen
ECM	Environmental Cost Management, Inc.
EPD	Environmental Protection Division
ISCO	In-Situ Chemical Oxidation
ISS	In-Situ Solidification
µG/L	Micrograms per Liter
MG/L	Milligrams per Liter
MGP	Manufactured Gas Plant
MNA	Monitored Natural Attenuation
MS/MSD	Matrix Spike/Matrix Spike Duplicate
O&M	Operation and Maintenance
ORP	Oxidation Reduction Potential
QA/QC	Quality Assurance/Quality Control
RCAP	Revised Corrective Action Plan
ROW	Right-of-Ways
RPD	Relative Percent Difference
RRS	Risk Reduction Standards
SCM	Site Conceptual Model
SVOC	Semi-Volatile Organic Compound
TCE	Trichloroethylene

Acronym/Abbreviation	Meaning
ThermoRetec	ThermoRetec Consulting Corporation
USEPA	United States Environmental Protection Agency
VIRP	Voluntary Investigation and Remediation Plan
VOC	Volatile Organic Compound
VRP	Voluntary Remediation Program
Wood	Wood Environment & Infrastructure Solutions, Inc.

PROFESSIONAL CERTIFICATION PAGE

**SEMIANNUAL CORRECTIVE ACTION EFFECTIVENESS REPORT No. 23 -
JANUARY 2018 GROUNDWATER MONITORING EVENT
ATLANTA GAS LIGHT COMPANY
FORMER MANUFACTURED GAS PLANT SITE
AUGUSTA, RICHMOND COUNTY, GEORGIA
HSI No. 10132**

I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enables me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by myself or by a subordinate working under my direction. Data contained herein gathered and reported by professionals other than Wood Environment & Infrastructure Solutions, Inc. are accepted as accurate and have been integrated into this report as such.

John M. Quinn, P.G. (Georgia PG No. 878)
Senior Geologist
Wood Environment & Infrastructure Solutions, Inc.

May 23, 2018
Date

Registered P.G.'s Mailing Address:
Wood Environment & Infrastructure Solutions, Inc.
1075 Big Shanty Road NW, Suite 100
Kennesaw, Georgia 30144

Registered P.G.'s Stamp:



1.0 Introduction

Wood Environment & Infrastructure Solutions, Inc. (Wood) has prepared this Semiannual Corrective Action Effectiveness Report (CAER) No. 23 on behalf of Atlanta Gas Light Company (AGLC). This report summarizes the results of the groundwater monitoring event performed in January 2018 at the former manufactured gas plant (MGP) Site in Augusta, Georgia (the Site).

The "Site" includes property owned by AGLC and formerly used for MGP operations, property owned by AGLC not used for MGP operations, surrounding and nearby parcels not owned by AGLC, a portion of the Third Level Canal, and city right-of-ways (ROW). The Site is divided between the "on-site" areas for the AGLC property where former MGP operations were located (i.e., Northern Parcel, Southern Parcel, Western Parcel, and Southeastern Bituminous Parcel) and the "off-site" areas for properties that were not part of the former MGP operations. The Site layout and location map (Figure 1-1) shows the setting of the AGLC property within the city of Augusta, Richmond County, Georgia.

The purpose of this report is to:

- Fulfill requirements of Consent Order Environmental Protection Division (EPD)-Voluntary Remediation Program (VRP)-011 issued December 3, 2014;
- Fulfill requirements of the approved Voluntary Investigation and Remediation Plan (VIRP), in which AGLC proposed to continue semiannual groundwater monitoring as presented in Appendix F of the VIRP, with the exception that AGLC has discontinued sample collection of monitored natural attenuation (MNA) parameters until the corrective actions performed under the VRP have been completed;
- Monitor changes in groundwater constituent-of-interest (COI) concentrations to evaluate groundwater quality; and
- Confirm the continued stability of Galliard and bedrock groundwater plume extents.

2.0 Background

AGLC has performed a series of investigations and implemented numerous Georgia Environmental Protection Division (EPD) approved corrective actions and has addressed the MGP impacts in the unsaturated and saturated zone materials over large areas of the Site since the mid-1980s. Ongoing groundwater monitoring reflects the revised monitoring well network as documented in Table 3-8 of Environmental Cost Management, Inc.'s (ECM's) June 22, 2012 response to the EPD's May 23, 2012 letter.

Monitoring wells located on the Georgia Power property on Block D required abandonment to accommodate construction activities for the expansion of the Fenwick Street Substation. The wells abandoned were Discrete Depth Sampling Port (DDSP) well MW-307 (comprised of MW-307D, MW-307SAP and MW-307TZ), and bedrock wells MW-307BR, MW-316, MW-321, MW-322, MW-323 and MW-324. Well abandonment activities on Block D were completed August 31 through September 2, 2015. A summary of the well abandonment activities was included in Appendix C of the 2nd Semiannual VRP Status Report (Amec Foster Wheeler, 2015a).

Additional monitoring wells to address delineation of Galliard groundwater impacts were installed from October 19 through October 21, 2015 consistent with the planned additional investigation presented in the 1st Semiannual VRP Status Report. To better understand trichloroethylene (TCE) detections observed in MW-401D on the Western Parcel, Galliard monitoring wells MW-604 through MW-606 were installed upgradient of MW-401D. Galliard monitoring well MW-607 was installed north of the Fenwick Street/9th Street intersection for delineation of Site COIs north of MW-603. These wells were sampled in November 2015, and the final results of this sampling were included in the 3rd Semiannual VRP Status Report (Amec Foster Wheeler, 2016a).

An additional monitoring well (MW-603SAP) was installed on July 27, 2016 to vertically delineate the Galliard zone north of MW-603, as required in the December 3, 2014 letter from the EPD. The well was sampled on August 10, 2016 and the results of the sampling were included in the 4th Semiannual VRP Status Report (Amec Foster Wheeler, 2016b).

AGLC abandoned 20 groundwater monitoring wells in October 2017 based on the request included in the 4th Semiannual VRP Status Report, dated December 1, 2016, and subsequent communications with EPD. The 20 abandoned wells were MW-604, MW-605, and MW-606 (installed to better understand TCE detections observed in MW-401D, as described above), MW-603SAP (installed for vertical delineation the Galliard zone north of MW-603, as described above), and MW-202DR, MW-205, MW-213, MW-308BR, MW-401D, MW-401S, MW-401SAP, MW502D, MW-503BR, MW-504BR, MW-509BR, MW-510BR, MW-511BR, MW-512BR, MW-600 and MW-601 (abandoned due to their location within the upcoming in-situ solidification [ISS] footprint, so as to facilitate corrective action). Well abandonment activities were completed October 17 through October 20, 2017. A summary of the well abandonment activities was included in Appendix B of the 6th Semiannual VRP Status Report (Amec Foster Wheeler, 2017a).

Groundwater sampling events conducted between 2001 and 2006 were summarized in previous semiannual groundwater monitoring reports. Groundwater sampling events conducted after completion of corrective actions described above from 2007 through the present have been summarized in CAERs.

2.1 Groundwater Monitoring and Evaluation Studies

This semiannual corrective action effectiveness groundwater monitoring and evaluation event was conducted in accordance with the the approved VIRP, in which AGLC proposed to continue semiannual groundwater monitoring as presented in Appendix F of the VIRP, with the exception that AGLC has discontinued sample collection of MNA parameters until the corrective actions performed under the VRP

have been completed. The sampling event conducted in January 2018 was the 23rd groundwater sampling event in the post-ISCO monitoring period as outlined in the revised Basis of Design Work Plan (LAW, 2002).

This section of the report describes procedures used for groundwater gauging, sampling, chemical analysis, quality assurance/quality control (QA/QC), and management of investigation-derived waste. Groundwater samples were collected using low-flow methods with peristaltic pumps.

2.2 Scope of Work

The 23rd semiannual corrective action effectiveness groundwater sampling event included the following field and reporting tasks:

2.2.1 Field Tasks

- Gauge groundwater levels.
- Sample groundwater.
- Manage investigation-derived waste.

2.2.2 Reporting Tasks

- Prepare groundwater elevation maps for the alluvium, Galliard, and saprolite units.
- Prepare groundwater potentiometric surface contour lines within the bedrock and transition units.
- Prepare summary tables of laboratory analytical results for COI.
- Evaluate analytical results relative to Type 1 Risk Reduction Standards (RRS).
- Prepare maps showing Type 1 RRS exceedances, if present, for COI in alluvium, Galliard formation, saprolite, and transition zone/bedrock.
- Prepare benzene and naphthalene isoconcentration maps for the Galliard Formation and bedrock.

2.3 Groundwater Monitoring Network

The list of wells selected for semiannual corrective action monitoring and evaluation was submitted to the EPD on July 8, 2001, along with the rationale for their inclusion. Further modifications to the monitoring well network were proposed in the February 2012 Site Conceptual Model (SCM) Addendum. Most of these modifications were approved by the EPD in correspondence dated May 23, 2012. The revised monitoring well network was documented in Table 3-8 of ECM's June 22, 2012 response to the EPD. The current status of each active monitoring network well is listed in Table 2-1, and the locations of the existing monitoring wells are shown on Figure 2-1. The well list has been revised to reflect the comments in EPD's May 23, 2012 correspondence regarding the SCM Addendum.

Sixty monitoring wells were included in the sampling network during the January 2018 sampling event (Table 2-1). One monitoring well (MW-506BR) has been destroyed by activities associated with City of Augusta contractors. MW-506BR was paved over during improvements to Dyess Park and is no longer accessible for sampling. The obstruction previously encountered at MW-05 after work was conducted by the City of Augusta Canal Authority during construction of the Canal Trail was removed during well development activities conducted in October 2017, and so MW-05 was sampled in January 2018. In addition, one monitoring well was not sampled due to the presence of dense non-aqueous phase liquid (DNAPL) observed during gauging (MW-603). Five monitoring wells included in the sampling network (MW-307D, MW-307SAP, MW-307BR, MW-321, and MW-324) were abandoned in August and September 2015 to accommodate the Georgia Power substation expansion. Also, 16 monitoring wells included in the

sampling network (MW-202DR, MW-205, MW-213, MW-308BR, MW-401D, MW-401S, MW-401SAP, MW502D, MW-503BR, MW-504BR, MW-509BR, MW-510BR, MW-511BR, MW-512BR, MW-600, MW-601) were abandoned in October 2017, for the reasons discussed in Section 2.0.

As a result, groundwater samples were collected from thirty-seven monitoring wells in January 2018. A summary of well construction information is included as Table 2-2.

2.3.1 On-Site Wells Sampled

The following on-site wells were sampled in January 2018:

MW-05	MW-12	MW-19	MW-203	MW-207
MW-310SAP	MW-310BR	MW-311	MW-402S	MW-402D
MW-508BR				

2.3.2 Off-Site Wells Sampled

Off-site monitoring wells sampled (or reasons for not sampling) in Janaury 2018 include the following:

- City of Augusta ROW: MW-21, MW-22, MW-206, MW-214, MW-313, MW-408DR, MW-408S, MW-500BR, MW-507BR, MW-513BR
- Augusta Civic Center Authority: MW-318, MW-320, and MW-325
- AGLC owned and/or leased to Miracle Making Ministries: MW-404DR, MW-501S, MW-505D, and MW-602
- Miracle Making Ministries: MW-304
- Amoco: MW-306D, MW-306SAP, MW-306TZ, and MW-306BR
- Joseph Norris: MW-303 and MW-309BR
- The Catholic Church of the Most Holy Trinity: MW-319
- United States Post Office: MW-315
- MW-603 was not sampled due to dense non-aqueous phase liquid (DNAPL) observed in the well during gauging.
- MW-506BR has been paved over (destroyed) by the City of Augusta sometime between July 2012 and January 2013. As such, MW-506BR has not been sampled since July 2012.

2.4 Groundwater Sampling and Analysis

During the initial groundwater gauging task, the condition of each well was noted, including the concrete surface seal, outer casing, inner expandable well cap, and lock. Damage to the well vault lids and locking caps were previously noted for MW-408S and MW-408DR; AGLC contacted the Canal Authority regarding this damage and repairs were completed. Prior to sampling, all wells were gauged with an oil-water interface meter for depth to water and presence and thickness of DNAPL, if observed.

Due to the historical detections of DNAPL at MW-603, care was taken to prevent possible cross contamination. A dedicated interface probe was dropped to the bottom of this well as part of the groundwater gauging event to assess whether DNAPL was present. DNAPL thickness was measured within the well column of MW-603 (0.52 foot). Due to the detection of DNAPL, MW-603 was not sampled.

Before groundwater samples were collected, each well was purged in accordance with Wood's standard operating procedures, which are based on technical guidelines from U.S. Environmental Protection Agency Region 4 Science and Ecosystem Support Division (SESD) Operating Procedure SESDPROC-301-R4 (USEPA, 2017). The monitoring wells were purged using low-flow/low-volume techniques, with the exception that those wells experiencing excessive drawdown (>0.3 feet) were purged either by removing a minimum of three well volumes or until the well ran dry, or, if the removal of three well volumes was infeasible due to the generation of excessive quantities of purge water, then the wells were purged using low-flow/low-volume techniques, with documentation of the stability of field parameter values. Use of this method is in accordance with SESDPROC-301-R4, which allows the use of alternate methods that lowers the volume of purge water to be removed before sampling (USEPA, 2017).

In addition, the DDSP wells were purged by removing a minimum of three volumes, or until dry, because the small diameter of the well prevents simultaneous monitoring of the depth to water. The purpose of purging the well is to draw fresh formation water into the well so that the samples are representative of the portion of the aquifer surrounding the well. If a well was completely evacuated during purging, it was allowed to recharge and the groundwater sample was collected immediately after the well had recharged.

Field documentation of groundwater quality measurements included pH, conductivity, temperature, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity. Field parameter values and corresponding purge volumes were recorded on groundwater sampling forms. Copies of these forms for the January 2018 sampling event are included in Appendix A.

Groundwater samples were analyzed for the COI list (Table 2-3) as referenced in the CAP and in Appendix F of the VIRP. As stated in the 17th CAER, AGLC has discontinued sample collection of MNA parameters until the corrective actions performed under the VRP have been completed, and the MNA parameters have been removed from Table 2-3. Analytical Environmental Services (AES) laboratory performed the analytical services. Laboratory analytical reports are provided in Appendix B.

2.5 Quality Control/Quality Assurance Samples

Field QC samples were collected and analyzed to document the accuracy and precision of the laboratory. QC samples included:

- Trip Blanks. Trip blanks were associated with each cooler containing VOC samples sent to the laboratory. Trip blanks were analyzed to determine if any contaminants were introduced while samples were stored or while in transit to the laboratory. Trip blanks were analyzed for VOCs only.
- Field Duplicates. Four field duplicates were collected, one from each of the following wells: MW-12, MW-19, MW-306BR, and MW-501S. All duplicate samples were analyzed for COI. Duplicates were collected to evaluate the precision of groundwater sample analysis and the variability of collection procedures.
- Matrix Spikes and Matrix Spike Duplicates. A total of two Matrix Spike and Matrix Spike Duplicate (MS/MSD) sample sets were collected from MW-320 and MW-513BR as part of the laboratory analytical batch QC.

2.6 Management of Investigation Waste

All purge water from sampling activities was drummed and sampled for characterization prior to ultimate disposal. Personal protective equipment and other trash was placed in bags and deposited in solid waste containers. The purge water from the January 2018 sampling activities was picked up on February 22, 2018 by Cascade Drilling LP for disposal as non-regulated material. The non-hazardous waste manifest is provided in Appendix I.

3.0 Groundwater Monitoring Results

This section summarizes results of the January 2018 corrective action monitoring and evaluation event, including groundwater flow and elevations, analytical results, QA/QC, and data validation.

3.1 Groundwater Flow and Elevations

During the January 2018 sampling event, all groundwater wells were inspected and the groundwater levels were gauged and recorded, as applicable. Groundwater elevation data derived from water level measurements collected in January 2018 is presented in Table 3-1. With the exception of porosity for the bedrock hydrogeologic unit, seepage velocity calculations in each unit are based on hydraulic conductivity estimates provided in the 2009 Site Conceptual Model, average specific yield values published in U.S. Geological Survey Water Supply Paper 1662-D (Johnson, 1967), and January 2018 horizontal hydraulic gradients calculated by solving three-point problems for wells screened in each unit. For the bedrock hydrogeologic unit, the porosity range is taken from published literature values (Fetter, 2001). Parameters (and sources, where applicable) used to calculate seepage velocity in each hydrogeologic unit and the resultant seepage velocity are summarized in Appendix C.

The groundwater pump and treatment system was shut off for a carbon changeout December 29, 2014. During restart of the system on January 30, 2015, the groundwater pump in MW-308BR was found to be damaged. The system then was operated with the use of MW-307BR only until MW-307BR ceased pumping in June 2015 due to mechanical issues. MW-307BR was subsequently abandoned in August-September 2015 due to scheduled construction activities in Block D. MW-308BR was abandoned in October 2017 to facilitate corrective action. As the treatment system has remained off since June 2015, the January 2018 groundwater flow and directions are indicative of ambient (non-pumping) conditions.

The ISS masses have created an obstacle to groundwater flow on the Northern Parcel and on the former Car Wash property since the hydraulic conductivity of each mass is several orders of magnitude lower than that of the surrounding alluvium in those portions of the shallow aquifer. The lower hydraulic conductivity of each mass (ranging from 10^{-9} to 10^{-7} centimeters per second) causes increased groundwater flow in the more permeable alluvium. Because groundwater cannot effectively flow through the ISS mass, shallow groundwater flow is directed around the mass and no groundwater elevation contours are associated with this area in the alluvium or Galliard zones.

Prior to soil remediation and ISS, groundwater flow in both the alluvium and Galliard Formation was generally in an easterly direction, with the exception of seasonal conditions in the unconfined alluvium aquifer, which sometimes reversed the direction of flow into the Third Level Canal. The estimated direction of alluvium groundwater in January 2018 was toward the Northern Parcel from the north (MW-501S) and southwest (MW-17). (Figure 3-1). While the contours shown on Figure 3-1 are interpolated from current data, it is difficult to determine the exact flow pattern in the alluvium due to the small number of alluvial wells on Site. However, a few additional alluvial wells will be installed to monitor post-remediation conditions once the next phase of ISS is complete. Seepage velocity in alluvial groundwater is estimated to be $2.4*10^{-1}$ ft/day as shown in Appendix C.

The general post-ISS local flow pattern in the Galliard Formation has been an easterly flow on the eastern side of the ISS masses, with a steeper groundwater gradient along the western boundary of the canal (west of the Northern Parcel) with a zone of nearly flat gradient east of the Northern Parcel. During the January 2018 monitoring event, west of the canal, groundwater flow appears to have been generally towards the east-southeast, with localized flow to the southwest and northwest to the west of the Northern Parcel (with MW-19 as a high) and to the southwest to the east of the Southern Parcel, with MW-207 as a groundwater high (similar to historical data). East of the canal, groundwater flow was

generally to the east, toward the Savannah River (Figure 3-2). This is similar to the pattern observed during historical groundwater monitoring events, where localized mounding occurred near the ISS masses around the Site and groundwater flowed radially outward. Groundwater flow in the Galliard unit is influenced by the extremely low hydraulic conductivity of the ISS mass in the Northern Parcel and former Car Wash area, which causes groundwater downgradient (east) of the ISS masses in the Northern Parcel to form a near-stagnant zone of very low gradient. Groundwater flow is complex in the immediate vicinity of the ISS masses, leading to some variability in localized groundwater flow patterns from event to event. Seepage velocity in Galliard groundwater outside the ISS masses is estimated to range from $3.0*10^{-3}$ to $2.9*10^{-2}$ ft/day as shown in Appendix C.

The January 2018 groundwater elevation data for the saprolite unit indicates groundwater flow trends east from MW-306SAP (Figure 3-3). Any groundwater flow in saprolite (or bedrock) interpreted near or adjacent to the ISS mass is assumed to flow under the mass. Groundwater flow is possible in the saprolite unit since ISS was keyed only into the top of saprolite and not completed through the entire vertical extent of the unit. Seepage velocity in saprolite groundwater is estimated to be $1.1*10^{-3}$ ft/day as shown in Appendix C.

The bedrock aquifer is a crystalline-rock aquifer that exhibits very high interconnectivity of the fracture sets and foliation planes to such a degree that groundwater flow simulates an anisotropic porous medium; however, the aquifer is still not considered a homogenous medium. Hydraulic potential lines, rather than groundwater elevation contours, are more appropriate to infer groundwater flow in bedrock where it is not considered a porous or homogenous medium. Groundwater flow, as well as dissolved constituent transport, is dominated by the northeast-southwest orientation of the primary fracture system, as described below, and in the Bedrock Ground Water Investigation Report [AECOM, 2009].

Groundwater flow in fractured rock environments is typically dominated by flow through fractures, such that flow paths are not in straight lines nor are they likely to be parallel to the hydraulic potential lines. The 2002 aquifer test demonstrated sufficient interconnectivity in every direction from the pumping wells to assume the bedrock acts similar to a porous medium, and the differences in drawdown depending on orientation matched well with the principal and secondary fracture orientations (there was more drawdown to the northeast). The Papadopulos anisotropic method was used to analyze the aquifer test data, and the results aligned well with the rose diagrams of fracture orientations obtained from the borehole televiewer analysis [AECOM, 2009]. Contouring assumes homogeneous and isotropic conditions are present, which is not the case in the bedrock at this site.

The fracture set with the strongest influence on bedrock groundwater flow at this site (the main fracture set) has a northeast-southwest orientation, as mentioned previously. However, during operation of the pump-and-treat system for the bedrock groundwater, the hydraulic potential for groundwater flow in the bedrock was towards MW-307BR and MW-308BR (the two bedrock groundwater extraction wells). These results verified that interconnectivity is high in the bedrock aquifer. In static conditions, the hydraulic potential for groundwater flow in bedrock is generally parallel to major fracture orientations.

Hydraulic potential lines are presented in Figure 3-4 to infer potential groundwater flow directions in bedrock in January 2018. Because of the influence of bedrock fracture orientation, localized groundwater flow is not necessarily equivalent to the hydraulic potential lines at all locations. Since fractured bedrock aquifers are inherently anisotropic and heterogeneous, calculation of seepage velocity may not be representative using bulk porosity estimates. However, a range of porosity estimates may provide bounds on the expected seepage velocity of the bedrock aquifer. As presented in Appendix C, multiple estimates of seepage velocity were calculated by solving three-point problems for different areas of the Site and using a range of porosity estimates from the literature. The calculated range of seepage velocity in the bedrock aquifer at the Site is between $5.3*10^{-3}$ and $3.7*10^{-1}$ ft/day as shown in Appendix C.

Based on January 2018 data collected under ambient (non-pumping) conditions, groundwater flow in bedrock appears to be generally toward the southeast (Figure 3-4). The groundwater recovery well at MW-307BR, which was abandoned in August-September 2015, has historically captured groundwater in the bedrock from up to 900 feet to the northeast as was evidenced by the groundwater gradient toward the pumping wells at MW-325 in previous reports.

3.2 Groundwater Analytical Results

Analytical results for groundwater samples collected in January 2018 from wells monitoring the various aquifers are summarized in Tables 3-2 through 3-6. These results were compared to Type 1 RRS. Detected concentrations exceeding the Type 1 RRS are presented in Figures 3-5 through 3-8. Field sampling forms are included in Appendix A, copies of the laboratory analytical reports are provided in Appendix B, and data validation reports are attached in Appendix D. A complete summary of all analytical data collected for the groundwater monitoring program (since 2001) is provided in Appendices E-1 through E-3. A summary of the January 2018 benzene and naphthalene monitoring results and comparison to historical data is presented in Section 4.

3.2.1 Alluvium

Analytical results for samples collected from alluvium monitoring wells were compared to their respective Type 1 RRS in Table 3-2. The number of alluvium monitoring wells sampled, number of detections for each COI, and range of concentrations is summarized in Table 3-7. No Type 1 RRS exceedances were reported for groundwater samples collected at alluvium monitoring wells in January 2018 with the exception of arsenic at MW-408S. Arsenic was reported at MW-408S at a concentration of 0.0651 milligrams per liter (mg/L) above the Type 1 RRS of 0.05 mg/L (Figure 3-5).

3.2.2 Galliard Formation

Analytical results of samples collected from the Galliard Formation wells were compared to their respective Type 1 RRS, as summarized in Table 3-3. The number of Galliard monitoring wells sampled, number of detections for each COI, range of concentrations, and wells with Type 1 RRS exceedances are summarized in Table 3-8. The monitoring well locations where exceedances occurred and the concentrations of COI detected above the Type 1 RRS during the January 2018 groundwater monitoring event are shown in Figure 3-6. The distributions of benzene and naphthalene concentrations in groundwater samples collected from the Galliard Formation are depicted in Figure 3-9.

The greatest number of COI and the highest detected concentrations are found in groundwater sampled from well MW-12 (in the northeast corner of the Southern Parcel). Well MW-205, MW-601 (in the east-central and west-central portion of Block E, respectively), and MW-600 (in the city ROW south of Block A) (Figures 3-6 and 3-9), which formerly also contained the greatest number of COI and the highest detected concentrations along with MW-205, were abandoned in October 2017 to facilitate corrective action, and so were not sampled in January 2018. Monitoring well MW-603 contained DNAPL and was not sampled.

3.2.2.1 Volatile Organic Compound Results

During the January 2018 sampling event, benzene concentrations exceeding the applicable Type 1 RRS in groundwater were reported at two well locations (MW-12 and MW-304). An ethylbenzene concentration exceeding the applicable Type 1 RRS was reported in one groundwater sample (MW-12; Table 3-3 and

Table 3-8). The distribution of detected VOCs, specifically MGP-related compounds, in groundwater samples collected from the Galliard formation is similar to that reported in previous events.

Consistent with previous events, a TCE concentration exceeding the applicable Type 1 RRS in groundwater was reported at well location MW-21. TCE is not an MGP-related constituent. No other VOCs were detected at MW-21.

Specific VOCs were analyzed at a dilution due to the concentration of target compounds exceeding the calibration range of the instrument. The dilution factor and subsequent laboratory reporting limit exceeded the Type 1 RRS for two VOCs (methylene chloride and TCE) analyzed in groundwater samples collected at monitoring well MW-12 (Table 3-3). Samples that were analyzed at a dilution resulting in a detection limit exceeding the Type 1 RRS have been highlighted in Table 3-3. Methylene chloride is a common laboratory artifact, while TCE has never been detected historically at MW-12, with the exception of a single isolated report at 38 J µg/L in January 2003. The laboratory reports indicate the dilution factor for each laboratory sample (Appendix B).

3.2.2.2 Semi-Volatile Organic Compound Results

The number of SVOC detections and exceedances of Type 1 RRS and the respective wells in which the exceedances occurred are presented in Table 3-8. The spatial distribution of SVOC Type 1 RRS exceedances within the Galliard Formation is represented in Figure 3-6. During the January 2018 sampling event, naphthalene concentrations exceeding the applicable Type 1 RRS in groundwater were reported at three well locations (MW-12, MW-304, and MW-505D). An isoconcentration map showing naphthalene distribution is presented as Figure 3-9. The distribution of SVOCs remains consistent with those reported in previous events.

3.2.2.3 Inorganic Compound Results

The data presented in Table 3-3, Table 3-8, and on Figure 3-6 indicate that no inorganic compounds exceeded Type 1 RRS in the Galliard Formation during the January 2018 groundwater monitoring event.

3.3 Saprolite

Analytical results for groundwater samples collected from the saprolite wells were compared to their respective Type 1 RRS in Table 3-4. The number of monitoring wells with detections and Type 1 RRS exceedances for the saprolite unit are presented in Table 3-9 and Figure 3-7.

No VOCs or SVOCs exceeded Type 1 RRS for saprolite wells in the January 2018 sampling event.

Nickel concentrations were reported above Type 1 RRS (0.1 mg/L) at MW-306SAP (0.396 mg/L) and MW-310SAP (0.431 mg/L). The only other inorganic compound detected at a concentration exceeding Type 1 RRS was cadmium (Type 1 RRS of 0.005 mg/L) at MW-311 (0.0423 mg/L). These inorganic compound results are consistent with previous detections observed at these well locations.

3.3.1 Transition Zone

Analytical results for a sample collected from transition zone well MW-306TZ were compared to their respective Type 1 RRS in Table 3-5. Type 1 RRS exceedances for the transition zone well are presented in Table 3-10. As shown on Figure 3-8, naphthalene was detected at a concentration exceeding the Type 1 RRS (20 µg/L) in MW-306TZ at 350 µg/L. There were no other Type 1 RRS exceedances for VOCs or inorganic compounds in MW-306TZ during the January 2018 sampling event.

3.3.2 Bedrock

Bedrock sampling results reported from the January 2018 groundwater monitoring event were compared to their respective Type 1 RRS in Table 3-6. The number of bedrock monitoring wells sampled, number of detections for each COI, range of concentrations, and wells with Type 1 RRS exceedances are summarized in Table 3-11. The detected constituent concentrations exceeding Type 1 RRS and the locations of the monitoring wells are depicted in Figure 3-8. An isoconcentration map showing benzene and naphthalene distribution is presented as Figure 3-10.

3.3.2.1 Volatile Organic Compound Results

As shown on Figure 3-8, benzene and ethylbenzene were the only VOCs detected at concentrations exceeding the Type 1 RRS in bedrock monitoring wells during the January 2018 sampling event.

- Benzene concentrations exceeded the Type 1 RRS (5 µg/L) in two bedrock monitoring wells with a low of 59 µg/L at MW-318 and a high of 17,000 µg/L at MW-500BR; and
- Ethylbenzene was detected at a concentration exceeding the Type 1 RRS (700 µg/L) at MW-500BR (1,800 µg/L).

Specific VOCs were analyzed at a dilution due to the concentration of target compounds exceeding the calibration range of the instrument. The dilution factor and subsequent laboratory reporting limit exceeded the Type 1 RRS for two VOCs (methylene chloride and TCE) analyzed in the groundwater sample collected at monitoring well MW-500BR (Table 3-6). Samples that were analyzed at a dilution resulting in a detection limit exceeding the Type 1 RRS have been highlighted in Table 3-6. The laboratory reports indicate the dilution factor for each laboratory sample (Appendix B).

3.3.2.2 Semi-Volatile Organic Compound Results

Two SVOCs were detected at concentrations exceeding their Type 1 RRS in groundwater samples collected at bedrock well locations during the January 2018 sampling event (Figure 3-8, Table 3-6, and Table 3-11). Naphthalene was detected above Type 1 RRS (20 µg/L) in two bedrock wells with a low of 330 µg/L in the parent sample at MW-306BR and a high of 3,900 µg/L at MW 500BR Phenanthrene was detected above Type 1 RRS (10 µg/L) at MW 500BR at a concentration of 17 µg/L. Concentrations and specific COI detected in bedrock groundwater samples above Type 1 RRS are similar to those reported in previous events.

3.3.2.3 Inorganic Compound Results

There were no Type 1 RRS exceedances for inorganic compounds in bedrock groundwater during the January 2018 sampling event.

3.3.3 Quality Assurance, Quality Control, and Data Validation

All field QA/QC data, and at least 10 percent of the VOC, SVOC, and inorganic data presented in the analytical reports, were reviewed by Wood's (formerly Amec Foster Wheeler's) data validation group. Laboratory analytical reports for all samples are provided in Appendix B, and the data validation reports for VOC, SVOC, and inorganic data are included in Appendix D. These data were reviewed in accordance with the USEPA Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services (USEPA, 2008/2011).

As shown in Appendix D, Wood's data validation group reviewed sample delivery groups 1801K21, 1801K95, and 1801L87. The following items were included in the data validation review:

- Sample integrity
- Reporting limits
- Method blanks
- Laboratory control samples
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPD)
- Laboratory and field duplicate relative percent differences (RPDs)
- Trip, field and/or equipment blanks

Two MS/MSD sample sets were collected and analyzed as part of the laboratory analytical batch QC (MW-320 and MW-513BR). The data validation review (Appendix D) includes a detailed discussion of sample integrity. The results of the data validation review are summarized below.

The recovery of method specified surrogate 4-terphenyl-d_{14} was above the upper QC limit for samples MW-306TZ-0118 and MW-12-0118, with only positive results requiring qualification. The fluorene, phenathrene, anthracene, fluoranthene and pyrene results for sample MW-306TZ-0118 and the acenaphthylene, anthracene, fluoranthene, pyrene, and benz(a)anthracene results for sample MW-12-0118 were qualified as estimated and flagged "J".

One field duplicate pair (DUP-01-0118/MW-12-0118) had an RPD outside of QC limits for acenaphthylene. The acenaphthylene results in this field duplicate pair were qualified as estimated and flagged "J".

4.0 Data Comparison and Summary

AGLC performed an empirical evaluation of the groundwater data collected from the beginning of the corrective action groundwater monitoring and evaluation program (2001) through present (January 2018) and compared the most recent data to the historic program dataset to determine if there were any trends toward improvement or degradation of groundwater quality.

Data comparison discussion for COI focus on benzene (the primary VOC contaminant), naphthalene (the primary SVOC contaminant), and TCE (the only chlorinated VOC COI). Results of data queries are presented as historical data summary tables presented in Appendices E-1 through E-3. Graphs reflecting temporal concentration changes of benzene and naphthalene are presented in Appendix F. Graphs were created for wells with historical detections of benzene and naphthalene.

4.1 Alluvium Wells

Based on the evaluation of dissolved-phase constituents in the alluvium wells during this monitoring period, no discernable groundwater plume exists in the alluvium aquifer (Table 3-7). There was one exceedance of Type 1 RRS in alluvium wells in January 2018 at MW-408S (arsenic at 0.0651 mg/L).

4.2 Galliard Wells

Data collected during the January 2018 monitoring event indicate the following:

- Naphthalene and benzene concentrations continue to be below their respective Type 1 RRS in Galliard Formation monitoring wells west of the Third Level Canal and east of King Street with the exception of MW-304 and MW-505D. (Figure 3-6). The benzene concentration reported for MW-304 (300 µg/L) represents a substantial decrease from the 770 µg/L reported in July 2017, is almost equivalent to the 290 µg/L reported in January 2017, and continues to be well below the January 2010 concentration (800 µg/L). The naphthalene concentration in MW-304 (220 µg /L) is above the 150 µg /L reported in July 2017, but continues to be below the July 2013 concentration (280 µg/L). The naphthalene concentration in MW-505D (130 µg /L) was higher than in July 2017 (59 µg /L) but below the July 2014 sampling event (590 µg/L), and continues to represent a decrease from the July 2013 concentration (870 µg/L). MW-304 and MW-505D will continue to be evaluated to assess concentrations trends at these locations.
- The extent of benzene and naphthalene concentrations reported to exceed the Type 1 RRS in the Galliard Formation north of the Site appears similar to that seen in recent monitoring events. MW-603 continues to be the northernmost impacted well and was not sampled in January 2018 due to the presence of DNAPL during gauging (Table 3-1). DNAPL has been previously reported in MW-603 in every sampling event since July 2013.
- MW-505D is located along the southern edge of the naphthalene plume. Detections of naphthalene at MW-505D were first detected above the Type 1 RRS in July 2012. Note that acenaphthylene was detected above the Type 1 RRS at MW-505D until July 2011, but has been below the Type 1 RRS since that time (and below the detection limit since July 2014). The naphthalene concentration high was reported in July 2013 (870 µg/L). As the naphthalene concentration in MW-505D was higher in January 2018 (130 µg/L) than in the July 2017 (59 µg/L) or January 2017 (17 µg/L) sampling events, the recent trend is relatively stable or increasing. The overall trend continues to show a decrease from the concentrations reported in July 2013 (870 µg/L) and January 2014 (840 µg/L).
- Concentrations of benzene and naphthalene remain highest in groundwater samples collected from the northeast corner of the Southern Parcel (MW-12) (Table 3-3). The groundwater sample collected

from the Galliard monitoring well MW-12 had a reported concentration of benzene at 11,000 µg/L and a naphthalene concentration at 6,500 µg/L (duplicate value) (Figure 3-6). These concentrations are similar to the levels reported in this well in recent years.

- The groundwater sample collected from MW-21 reported a concentration of TCE above the Type 1 RRS (5 µg/L) at 8.3 µg/L. TCE has previously been detected in this well and is not an MGP-related COI.

4.3 Saprolite Wells

Four saprolite monitoring wells were sampled during the January 2018 monitoring event. No VOC concentrations exceeding the Type 1 RRS were reported. Benzene was not detected in either the January 2018, July 2017 or the January 2017 sample results from MW-311, as compared to concentrations of benzene of 44 µg/L in July 2016 and 58 µg/L in January 2016. Concentrations remain well below historic highs at this location (Appendix F).

4.4 Transition Zone Wells

Naphthalene, at a concentration of 350 µg/L, was the only COI reported above Type 1 RRS in the one transition zone monitoring well (MW-306TZ) sampled in January 2018. This concentration was lower than that reported in July 2017 (360 µg/L), and higher than January 2017 (270 µg/L). The January 2018 and July and January 2017 concentrations continue to represent a decline from reported concentrations in July 2005 (910 µg/L) and July 2009 (1,100 µg/L). No other detections of COI were reported above their respective Type 1 RRS, as shown on Table 3-5.

4.5 Bedrock Wells

Data collected during the January 2018 monitoring event indicate the following:

- The highest concentration of benzene (17,000 µg/L) was reported at MW-500BR, located south of the Northern Parcel on the southern side of the canal. This concentration is an increase from the July 2017 (6,500 µg/L) and January 2017 (5,600 µg/L) values and represents an increase from the previous benzene concentration high reported in July 2012 (14,000 µg/L). The January 2018 benzene value remains in the same order of magnitude as other previous elevated concentrations reported at this well in January 2015 (13,000 µg/L) and January 2008 (12,000 µg/L) . (Appendix F).
- Groundwater samples collected from MW-319 and MW-320 continue to delineate Type 1 RRS exceedances in bedrock groundwater to the northeast. No COI were detected above Type 1 RRS in groundwater samples collected from MW-319 and MW-320.
- Groundwater concentrations detected in bedrock well MW-315 delineate Type 1 RRS exceedances to the northwest. The groundwater sample collected from bedrock well MW-507BR delineates the extent of naphthalene impacts in bedrock to the south-southwest in Block J, while the groundwater sample from bedrock well MW-508BR delineates the extent of naphthalene in bedrock to the southeast. Benzene and naphthalene were not detected in MW-507BR, MW-508BR, or MW-315 during the January 2018 sampling event (Appendix E-2).

5.0 Performance and Operations of Bedrock Groundwater Extraction System

Bedrock monitoring wells MW-307BR and MW-308BR were converted to groundwater extraction wells in 2006. The groundwater extraction and treatment system continuously operated since start up on November 30, 2006 with the exception of temporary shutdowns due to routine maintenance activities, until June of 2015, as described below. MW-307BR and MW-308BR continued to be sampled through the extraction system as part of semiannual monitoring, but were no longer gauged. The groundwater pump and treatment system was turned off for a carbon changeout December 29, 2014. During restart of the system on January 30, 2015, the groundwater pump in MW-308BR was found to be damaged. The system then was operated with the use of MW-307BR only until MW-307BR ceased pumping in June 2015 due to mechanical issues. Thus, the treatment system has not operated since June 2015. MW-307BR was abandoned in August-September 2015 and MW-308BR was abandoned in October 2017, as described previously. As shown in the concentration trend graph provided in Appendix F, the naphthalene and benzene concentrations reported at MW-308BR prior to its abandonment decreased substantially after extraction from that well ended in December 2014.

As described in the 18th CAER (Amec Foster Wheeler, 2015c), the groundwater extraction system is not currently operating in the interim leading up to remediation, and mass reduction calculations will be suspended during this interim period and during implementation of remediation. Graphs showing the trends of the mass removal up to the point when extraction ended are provided in Appendix G.

As stated in the VRP 1st Semiannual Status Report (Amec Foster Wheeler, 2015b), groundwater will continue to be sampled semiannually consistent with the current program until construction is initiated. A modified program with a subset of existing bedrock wells may be sampled during ISS implementation to continue to evaluate groundwater quality in the bedrock aquifer.

6.0 Conclusions

The following conclusions are derived from the data and analyses presented in this report:

Alluvium

- There was only one exceedance of COI in alluvium monitoring wells sampled in January 2018. Arsenic was reported in January 2018 at MW-408S at a concentration of 0.0651 milligrams per liter (mg/L), above the Type 1 RRS of 0.05 mg/L. The benzene exceedance detected in MW-501S in January 2015 appears to be anomalous and has not been detected since.

Galliard Formation

- As shown on Table 3-8, organic COI concentrations exceeded Type 1 RRS in four wells in the Galliard Formation (MW-12, MW-21, MW-304, and MW-505D). Benzene, ethylbenzene, naphthalene and phenanthrene exceeded in MW-12, benzene and naphthalene exceeded in MW-304, and naphthalene exceeded in MW-505D. The sole RRS exceedance in MW-21 (located approximately 1300 feet east of the Northern Parcel) was TCE, which is not an MGP-related constituent. These exceedances are consistent with historical observations.
- No inorganic COI exceeded Type 1 RRS in Galliard groundwater samples during the January 2018 sampling event.
- DNAPL was observed in one well (MW-603), located within the Galliard groundwater plume during the January 2018 sampling event, and this wells was not sampled.

Saprolite

- There were no organic COI concentrations exceeding Type 1 RRS reported in groundwater samples collected from wells installed in the saprolite unit. Benzene and naphthalene were not detected in MW-311, and therefore concentrations remain well below historic highs (Appendix F).
- Nickel in MW-306SAP and MW-310SAP and cadmium in MW-311 were reported in excess of the Type 1 RRS. No other inorganic COI exceeded RRS in January 2018 in wells installed in the saprolite unit.

Transition Zone

- The groundwater sample collected from MW-306TZ in January 2018 had a reported exceedance of the Type 1 RRS for naphthalene only. There were no other transition zone wells sampled during this event.

Bedrock

- Benzene was the only VOC that exceeded Type 1 RRS in bedrock well MW-318. Benzene and ethylbenzene in MW-500BR exceeded Type 1 RRS.
- One or more SVOCs were detected in two bedrock monitoring wells in excess of the Type 1 RRS, as shown on Table 3-11.
- There were no inorganic COI exceedances in bedrock monitoring wells during the January 2018 sampling event.
- The bedrock extraction system is not currently operating in the interim leading up to remediation that is tentatively scheduled to begin in Third Quarter 2018. As stated in the Voluntary Remediation Program 1st Semiannual Status Report (Amec Foster Wheeler, 2015a), groundwater will continue to be sampled semiannually consistent with the current program until construction is initiated. A modified program with a subset of existing bedrock wells may be sampled during ISS implementation to continue to evaluate groundwater quality.
- As stated in the 17th CAER, AGLC has discontinued MNA sampling until the corrective actions performed under the VRP have been completed.

- Observations from the Continuing Action Monitoring Plan inspection have been documented in Appendix H.

The next semiannual groundwater monitoring event will be performed in July 2018 and the 24th Semiannual CAER will be submitted as an appendix to the Eighth Semiannual VRP Status Report to be submitted by December 1, 2018.

7.0 References

AECOM, 2009. *Bedrock Groundwater Investigation Report, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by AECOM, February 19, 2009.

Amec Foster Wheeler, 2015a. *Voluntary Remediation Program 2nd Semiannual Status Report, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by Amec Foster Wheeler Environment and Infrastructure, Inc., December 1, 2015.

Amec Foster Wheeler, 2015b. *Voluntary Remediation Program 1st Semiannual Status Report, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by Amec Foster Wheeler Environment and Infrastructure, Inc., May 29, 2015.

Amec Foster Wheeler, 2015c. *18th Semi-Annual Corrective Action Effectiveness Report, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by Amec Foster Wheeler Environment and Infrastructure, Inc., November 27, 2015.

Amec Foster Wheeler, 2016a. *Voluntary Remediation Program 3rd Semiannual Status Report, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by Amec Foster Wheeler Environment and Infrastructure, Inc., June 1, 2016.

Amec Foster Wheeler, 2016b. *Voluntary Remediation Program 4th Semiannual Status Report, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by Amec Foster Wheeler Environment and Infrastructure, Inc., December 1, 2016.

Amec Foster Wheeler, 2017a. *Voluntary Remediation Program 6th Semiannual Status Report, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by Amec Foster Wheeler Environment and Infrastructure, Inc., December 1, 2017.

ECM, 2011. *Data-Gap Investigation and Monitoring Well Installation/Decommissioning Report, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by Environmental Cost Management, Inc., February 14, 2011.

ECM, 2012. *Site Conceptual Model Addendum, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by Environmental Cost Management, Inc., February 2012.

ECM, 2012a. *Ground Water Flow and Transport, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by Environmental Cost Management, Inc., June 5, 2012.

ECM, 2012b. *Feasibility Study, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by Environmental Cost Management, Inc., December 13, 2012.

EPD, 2000. Hazardous Waste Consent Order, Order No. EPD HW 1390. Prepared by the Georgia Department of Natural Resources, Environmental Protection Division, July 11, 2000.

Fetter, C.W., 2001. *Applied hydrogeology (Fourth edition)*: Prentice-Hall, Inc., Upper Saddle River, New Jersey, 598 p.

Johnson, A.I., 1967. *Specific yield-compilation of specific yields for various materials*: U.S. Geological Survey Water-Supply Paper 1662-D, 74 p.

LAW, 2002. *Basis of Design Workplan, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by LAW Environmental, December 9, 2002.

MACTEC, 2005. *Northern Parcel Corrective Action Closure Report, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by MACTEC, August 9, 2005.

MACTEC, 2009. *Corrective Action Closure Report and Compliance Status Report On-site and Off-site Parcels Operable Units 1 and 2, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by MACTEC, January 16, 2009.

MACTEC, 2009. *Corrective Action Closure Report and Compliance Status Report Third Level Canal Operable Unit 3, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by MACTEC, January 16, 2009.

META, 2012. *Environmental Forensic Report*. Prepared by META Environmental, Inc., November 27, 2012.

ThermoRetec, 2001. *Corrective Action Plan, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by ThermoRetec Consulting Corporation, November 2001.

USEPA, 2008/2011. *Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services*. Prepared by the Region 4, United States Environmental Protection Agency, Science and Ecosystem Support Division, August 2008 (organic), September 2011(inorganic).

USEPA, 2017. *Operating Procedure, Groundwater Sampling*. Prepared by the Region 4, United States Environmental Protection Agency, Science and Ecosystem Support Division, April 2017.

Tables

Table 2-1
Monitoring Well Network Summary
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Well ID	Hydrogeologic Unit	Well Monitoring Status	Location
Alluvium Monitoring Wells			
MW-05*	Alluvium	Gauge and Sample	On-site
MW-17		Gauge Only	On-site
MW-306S		Gauge Only	Off-site
MW-401S		Abandoned Oct. 2017	Off-site
MW-402S		Gauge and Sample	On-site
MW-408S		Gauge and Sample	Off-site
MW-501S		Gauge and Sample	Off-site
Galliard Formation Monitoring Wells			
MW-12	Galliard	Gauge and Sample	On-site
MW-19		Gauge and Sample	On-site
MW-21		Gauge and Sample	Off-site
MW-22		Gauge and Sample	Off-site
MW-24	Upper Galliard	Gauge Only	Off-site
MW-25		Gauge Only	Off-site
MW-202DR	Galliard	Abandoned Oct. 2017	On-site
MW-203	Middle Galliard	Gauge and Sample	On-site
MW-205	Galliard	Abandoned Oct. 2017	On-site
MW-206		Gauge and Sample	Off-site
MW-207		Gauge and Sample	On-site
MW-303		Gauge and Sample	Off-site
MW-304		Gauge and Sample	Off-site
MW-306D		Gauge and Sample	Off-site
MW-307D		Abandoned Aug.-Sep. 2015	Off-site
MW-309D		Gauge Only	Off-site
MW-310D		Gauge Only	On-site
MW-401D		Abandoned Oct. 2017	Off-site
MW-402D		Gauge and Sample	On-site
MW-404DR		Gauge and Sample	Off-site
MW-408DR		Gauge and Sample	Off-site
MW-502D		Abandoned Oct. 2017	On-site
MW-505D		Gauge and Sample	Off-site
MW-600		Abandoned Oct. 2017	Off-site
MW-601		Abandoned Oct. 2017	On-site
MW-602		Gauge and Sample	Off-site
MW-603		Gauge and Sample	Off-site
MW-604		Abandoned Oct. 2017	Off-site
MW-605		Abandoned Oct. 2017	Off-site
MW-606		Abandoned Oct. 2017	Off-site
MW-607		Gauge Only	Off-site

Well ID	Hydrogeologic Unit	Well Monitoring Status	Location
Saprolite Monitoring Wells			
MW-214	Saprolite	Gauge and Sample	Off-site
MW-306SAP		Gauge and Sample	Off-site
MW-307SAP		Abandoned Aug.-Sep. 2015	Off-site
MW-309SAP		Gauge Only	Off-site
MW-310SAP		Gauge and Sample	On-site
MW-311		Gauge and Sample	On-site
MW-317		Gauge Only	
MW-401SAP		Abandoned Oct. 2017	Off-site
MW-603SAP		Abandoned Oct. 2017	Off-site
Transition Zone and Bedrock Monitoring Wells			
MW-213	Bedrock	Abandoned Oct. 2017	On-site
MW-306TZ	Transition Zone	Gauge and Sample	Off-site
MW-306BR	Bedrock	Gauge and Sample	Off-site
MW-307TZ	Transition Zone	Abandoned Aug.-Sep. 2015	Off-site
MW-307BR	Bedrock	Abandoned Aug.-Sep. 2015	Off-site
MW-308BR		Abandoned Oct. 2017	On-site
MW-309TZ		Gauge Only	Off-site
MW-309BR		Gauge and Sample	Off-site
MW-310TZ		Gauge Only	On-site
MW-310BR		Gauge and Sample	On-site
MW-313		Gauge and Sample	Off-site
MW-315		Gauge and Sample	Off-site
MW-316		Abandoned Aug.-Sep. 2015	Off-site
MW-318		Gauge and Sample	Off-site
MW-319		Gauge and Sample	Off-site
MW-320		Gauge and Sample	Off-site
MW-321		Abandoned Aug.-Sep. 2015	Off-site
MW-322		Abandoned Aug.-Sep. 2015	Off-site
MW-323		Abandoned Aug.-Sep. 2015	Off-site
MW-324		Abandoned Aug.-Sep. 2015	Off-site
MW-325		Gauge and Sample	Off-site
MW-500BR		Gauge and Sample	Off-site
MW-503BR		Abandoned Oct. 2017	Off-site
MW-504BR		Abandoned Oct. 2017	Off-site
MW-506BR**		Gauge and Sample	Off-site
MW-507BR		Gauge and Sample	Off-site
MW-508BR		Gauge and Sample	On-site
MW-509BR		Abandoned Oct. 2017	Off-site
MW-510BR		Abandoned Oct. 2017	Off-site
MW-511BR		Abandoned Oct. 2017	Off-site
MW-512BR		Abandoned Oct. 2017	Off-site
MW-513BR		Gauge and Sample	Off-site

Notes:

D - denotes well screened in the Galliard Formation

BR - denotes bedrock well (where used in well name)

TZ - denotes well screened in the Transition Zone in DDSP wells

Except as noted, only those wells that are still considered active (e.g., not destroyed or abandoned) are included in this table

* The MW-05 protective cover was destroyed during the Canal Authority's path improvement along canal; the cover has been repaired

** MW-506BR has been paved over (destroyed) by the City of Augusta sometime between July 2012 and January 2013

Prepared by: ERM
Revision by/date: JMQ 11/15/17
Checked by/date: NJM 11/15/17

Table 2-2
Monitoring Well Construction Summary
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Monitoring Well ID	Date Installed	Well Type	Well Materials	Ground Surface Elevation (ft AMSL)	Top of Casing Elevation (ft AMSL)	Screened Interval (ft bgs)
Alluvium Monitoring Wells						
MW-05*	10/19/1985	II	PVC	130.00	132.11	4.2 - 18.6
MW-17	2/2/1992	II	SS	136.60	138.85	12.4 - 16.7
MW-306S	11/6/1998	DDSP	PVC	132.08	131.96	8.5 - 9.5
MW-401S****	8/31/2000	II	PVC	134.44	136.89	10 - 20
MW-402S	8/30/2000	II	PVC	136.88	136.89	9 - 19
MW-408S	10/18/2000	II	PVC	133.65	133.31	10 - 20
MW-501S	1/17/2007	II	PVC	132.98	132.80	7 - 12
Galliard Formation Monitoring Wells						
MW-12	5/15/1986	II	PVC	131.80	131.31	20 - 30
MW-19	2/4/1992	II	SS	138.70	140.37	15.3 - 19.7
MW-21	12/8/1992	II	SS	129.80	128.54	22.3 - 27.9
MW-22	5/4/1994	II	PVC	130.60	129.60	18.3 - 22.3
MW-24	5/6/1994	II	PVC	131.10	130.21	8.3 - 12.3
MW-25	5/6/1994	II	PVC	129.80	128.88	18.9 - 22.9
MW-202DR****	1/24/2007	II	PVC	131.70	131.59	24.5- 29.5
MW-203	11/14/1995	II	PVC	131.70	130.74	22.1 - 26.0
MW-205****	11/22/1995	II	SS	132.20	130.94	23.3 - 28.1
MW-206	11/28/1995	II	PVC	130.90	130.06	23.9 - 27.8
MW-207	10/11/1995	II	PVC	130.40	132.68	20.6 - 24.6
MW-211	10/11/1995	II	PVC	139.60	138.59	20.5 - 24.4
MW-303	11/18/1998	II	PVC	129.63	129.37	25.5 - 30.5
MW-304	11/2/1998	II	PVC	131.63	131.51	31 - 36
MW-306D	11/6/1998	DDSP	PVC	132.08	131.89	24.5 - 25.5
MW-307D***	11/10/1998	DDSP	PVC	130.53	130.45	24.5 - 25.5
MW-309D	11/8/1998	DDSP	PVC	129.97	129.79	27.5 - 28.5
MW-310D	11/3/1998	DDSP	PVC	138.79	138.70	27 - 28
MW-401D****	8/31/2000	II	PVC	134.37	134.38	33 - 36
MW-402D	8/30/2000	II	PVC	136.89	136.95	24.7 - 26.2
MW-404DR	1/30/2007	II	PVC	133.10	133.15	16.5 - 21.5
MW-408D	2/22/2011	II	PVC	133.46	133.02	25 - 30
MW-502D****	1/30/2007	II	PVC	131.20	131.18	20 - 26
MW-505D	1/31/2007	II	PVC	128.87	128.87	23.5 - 28.5
MW-600****	10/19/2010	II	PVC	131.34	131.02	22 - 32
MW-601****	10/20/2010	II	PVC	131.10	130.82	17 - 27
MW-602	10/19/2010	II	PVC	130.55	130.20	22 - 32
MW-603	10/19/2010	II	PVC	130.80	130.65	17 - 27
MW-604****	10/19/2015	II	PVC	135.10	135.65	20 - 30
MW-605****	10/19/2015	II	PVC	134.60	134.36	22 - 32
MW-606****	10/20/2016	II	PVC	136.20	135.86	21 - 31
MW-607	10/21/2016	II	PVC	131.60	131.12	19 - 29

Notes:

ft AMSL - feet above mean sea level
ft bgs - feet below ground surface
II - double casing well
III - triple casing well
PVC - polyvinyl chloride
SS - stainless steel
Only active monitoring wells are included in this table.
DDSP - depth discrete sampling port

* The MW-05 protective cover was destroyed during the Canal Authority's path improvement along canal; the cover has been repaired
** MW-506BR has been paved over (destroyed) by the City of Augusta sometime between July 2012 and January 2013
*** Abandoned August-September 2015
**** Abandoned October 2017

Table 2-2
Monitoring Well Construction Summary
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Monitoring Well ID	Date Installed	Well Type	Well Materials	Ground Surface Elevation (ft AMSL)	Top of Casing Elevation (ft AMSL)	Screened Interval (ft bgs)
Saprolite Monitoring Wells						
MW-214	12/7/1995	II	PVC	130.60	129.65	52.6 - 56.6
MW-306SAP	11/6/1998	DDSP	PVC	132.08	131.92	30.5 - 31.5
MW-307SAP***	11/10/1998	DDSP	PVC	130.53	130.48	30.5 - 31.5
MW-309SAP	11/8/1998	DDSP	PVC	129.97	129.82	34.5 - 35.5
MW-310SAP	11/3/1998	DDSP	PVC	138.79	138.72	34 - 35
MW-311	11/20/1998	II	PVC	130.32	130.11	30 - 32
MW-317	9/6/2000	II	PVC	130.90	130.64	31 - 41
MW-401SAP****	8/31/2000	II	PVC	134.23	134.27	38 - 48
MW-603SAP****	7/27/2016	II	PVC	NS	NS	28 - 38
Transition Zone and Bedrock Monitoring Wells						
MW-213****	12/8/1995	III	PVC	131.90	130.92	58.5 - 62.5
MW-306BR	11/23/1998	III	PVC	132.03	131.81	55 - 80
MW-306TZ	11/6/1998	DDSP	PVC	132.08	131.93	58.5 - 59.5
MW-307BR***	11/22/1998	III	PVC	130.75	130.27	48 - 73.25
MW-307TZ***	11/10/1998	DDSP	PVC	130.53	130.48	46.5 - 47.5
MW-308BR****	11/21/1998	III	PVC	131.34	131.08	55.5 - 80.5
MW-309BR	11/24/1998	III	PVC	129.84	129.54	83.75 - 109
MW-309TZ	11/8/1998	DDSP	PVC	129.97	129.76	76.5 - 77.5
MW-310BR	11/25/1998	III	PVC	139.72	139.49	65 - 90
MW-310TZ	11/3/1998	DDSP	PVC	138.79	138.72	73 - 74
MW-313	8/10/2000	III	PVC	129.01	129.02	61 - 86
MW-315	8/10/2000	III	PVC	131.91	131.74	59.5 - 85.5
MW-316***	9/1/2000	III	PVC	130.71	130.51	88 - 119.8
MW-318	9/8/2000	III	PVC	130.94	130.75	62 - 87
MW-319	12/13/2000	III	PVC	133.20	132.98	55 - 80
MW-320	1/6/2001	III	PVC	132.08	131.74	70 - 76
MW-321***	1/19/2001	III	PVC/SS	130.86	130.48	160 - 170.2
MW-322***	12/14/2000	III	PVC	130.69	130.65	49 - 86
MW-323***	12/15/2000	III	PVC	130.65	130.53	70.5 - 95
MW-324***	5/31/2001	III	PVC/SS	130.83	130.98	209 - 215
MW-325	5/22/2001	III	PVC	131.53	131.44	95 - 115
MW-500BR	1/24/2007	III	PVC	132.76	132.66	64 - 79
MW-503BR****	9/5/2008	III	PVC	131.80	131.57	56 - 76
MW-504BR****	9/4/2008	III	PVC	131.10	130.91	60 - 80
MW-506BR**	8/27/2008	III	PVC	139.70	139.23	66 - 81
MW-507BR	8/25/2008	III	PVC	139.10	138.76	106 - 125
MW-508BR	8/25/2008	III	PVC	130.50	133.26	70 - 86
MW-509BR****	9/18/2009	III	PVC	131.10	130.63	56 - 76
MW-510BR****	9/15/2008	III	PVC	131.00	130.76	60 - 80
MW-511BR****	9/9/2008	III	PVC	131.20	130.82	56 - 76
MW-512BR****	8/29/2008	III	PVC	132.00	131.70	64 - 84
MW-513BR	10/20/2010	III	PVC	132.40	132.03	51.5 - 82

Notes:

ft AMSL - feet above mean sea level

ft bgs - feet below ground surface

II - double casing well

III - triple casing well

PVC - polyvinyl chloride

SS - stainless steel

Only exisitng monitoring wells are included in this table.

DDSP - depth discrete sampling port

** MW-506BR has been paved over (destroyed) by the City of Augusta sometime between July 2012 and January 2013

*** Abandoned August-September 2015

**** Abandoned October 2017

NS - Not Surveyed

Prepared by: ERM

Revision by/date: JMQ 11/15/17

Checked by/date: NJM 11/15/17

Table 2-3
Site-Specific Constituents of Interest
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Volatile Organic Compounds (VOCs), (SW-846 Method 8260B)		
Acetone	Ethylbenzene	Trichloroethylene
Benzene	Methylene Chloride	Xylenes (total)
Carbon Disulfide	Toluene	
Semivolatile Organic Compounds (SVOCs), (SW-846 Method 8270C)		
Acenaphthene	Benzo(g,h,i)perylene	Indeno(1,2,3-cd)pyrene
Acenaphthylene	Benzo(k)fluoranthene	Naphthalene
Anthracene	Chrysene	Phenanthrene
Benzo(a)anthracene	Dibenzo(a,h)anthracene	Pyrene
Benzo(a)pyrene	Fluoranthene	
Benzo(b)fluoranthene	Fluorene	
Inorganics (SW-846 Methods 6010B, 7470A, 6020, and 9010/9012)		
Antimony	Copper	Thallium
Arsenic	Cyanide	Vanadium
Barium	Lead	Zinc
Beryllium	Mercury	
Cadmium	Nickel	
Chromium	Selenium	

Prepared by/date: JMQ 10/29/15
Checked by/date: SAG 11/24/15

Table 3-1
Depth to Water and Groundwater Elevations
January 22, 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Monitoring Well ID	Hydrogeologic Unit	Top of Casing (ft AMSL)	Well Casing Total Depth (ft BTOC)	Depth to Water 1/22/2018 (ft BTOC)	Groundwater Elevation (ft AMSL)	Thickness of NAPL (ft)
Alluvium Monitoring Wells						
MW-05	Alluvium	132.11	19.25	5.21	126.9	--
MW-17	Alluvium	138.85	11.80	11.11	127.74	--
MW-306S	Alluvium	131.96	8.59	7.65	124.31	--
MW-401S	Alluvium	136.89	Abandoned October 2017			--
MW-402S	Alluvium	136.89	19.51	12.06	124.83	--
MW-408S	Alluvium	133.31	18.60	8.10	125.21	--
MW-501S	Alluvium	132.80	11.97	7.55	125.25	--
Galliard Formation Monitoring Wells						
MW-12	Galliard	131.31	24.98	8.03	123.28	--
MW-19	Galliard	140.37	19.40	12.24	128.13	--
MW-21	Galliard	128.54	28.47	7.19	121.35	--
MW-22	Galliard	129.60	22.68	6.29	123.31	--
MW-24	Galliard	130.21	22.30	7.30	122.91	--
MW-25	Galliard	128.88	23.43	5.69	123.19	--
MW-202DR	Galliard	131.59	Abandoned October 2017			--
MW-203	Galliard	130.74	26.55	7.39	123.35	--
MW-205	Galliard	130.94	Abandoned October 2017			--
MW-206	Galliard	130.06	28.50	6.64	123.42	--
MW-207	Galliard	132.68	25.40	5.49	127.19	--
MW-303	Galliard	129.37	30.75	6.62	122.75	--
MW-304	Galliard	131.51	36.50	8.84	122.67	--
MW-306D	Galliard	131.89	23.00	8.28	123.61	--
MW-307D	Galliard	130.45	Abandoned August/September 2015			--
MW-309D	Galliard	129.79	23.05[(1)]	6.72	123.07	--
MW-310D	Galliard	138.70	27.15	13.47	125.23	--
MW-401D	Galliard	134.38	Abandoned October 2017			--
MW-402D	Galliard	136.95	26.72	12.10	124.85	--
MW-404DR	Galliard	133.15	21.75	7.85	125.30	--
MW-408DR	Galliard	133.02	24.66	7.67	125.35	--
MW-502D	Galliard	131.18	Abandoned October 2017			--
MW-505D	Galliard	128.87	28.20	4.72	124.15	--
MW-600	Galliard	131.02	Abandoned October 2017			
MW-601	Galliard	130.82	Abandoned October 2017			--
MW-602	Galliard	130.2	31.97	7.75	122.45	--
MW-603	Galliard	130.65	NM	6.19	124.46	0.52'
MW-604	Galliard	135.65	Abandoned October 2017			--
MW-605	Galliard	134.36	Abandoned October 2017			--
MW-606	Galliard	135.86	Abandoned October 2017			--
MW-607	Galliard	131.12	28.72	6.66	124.46	--

Notes:

ft = Feet

AMSL = above mean sea level

BTOC = below top of casing

NAPL = non-aqueous phase liquid

NM = not measured

(1) = Obstruction encountered in well at a depth of 23.05' BTOC.

Table 3-1
Depth to Water and Groundwater Elevations
January 22, 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Monitoring Well ID	Hydrogeologic Unit	Top of Casing (ft AMSL)	Well Casing Total Depth (ft BTOC)	Depth to Water 1/22/2018 (ft BTOC)	Groundwater Elevation (ft AMSL)	Thickness of NAPL (ft)
Saprolite Monitoring Wells						
MW-214	Saprolite	129.65	57.20	6.62	123.03	--
MW-306SAP	Saprolite	131.92	24.6	7.91	124.01	--
MW-307SAP	Saprolite	130.48	Abandoned August/September 2015			--
MW-309SAP	Saprolite	129.82	10.72[(2)]	5.80	124.02	--
MW-310SAP	Saprolite	138.72	33.86	13.29	125.43	--
MW-311	Saprolite	130.11	32.60	6.90	123.21	--
MW-317	Saprolite	130.64	37.6	8.69	121.95	--
MW-401SAP	Saprolite	134.27	Abandoned October 2017			--
MW-603SAP	Saprolite	NA	Abandoned October 2017			--
Transition Zone and Bedrock Monitoring Wells						
MW-213	Bedrock	130.92	Abandoned October 2017			--
MW-306TZ	TransZone	131.93	22.12	8.37	123.56	--
MW-306BR	Bedrock	131.81	52.11	8.33	123.48	--
MW-307TZ	TransZone	130.48	Abandoned August/September 2015			--
MW-308BR	Bedrock	131.08	Abandoned October 2017			
MW-309BR	Bedrock	129.54	81.08	7.54	122.00	--
MW-309TZ	TransZone	129.76	18.45	5.53	124.23	--
MW-310TZ	TransZone	138.72	31.61	14.59	124.13	--
MW-310BR	Bedrock	139.49	66.95	15.62	123.87	--
MW-313	Bedrock	129.02	82.52	6.60	122.42	--
MW-315	Bedrock	131.74	85.90	7.77	123.97	--
MW-316	Bedrock	130.51	Abandoned August/September 2015			--
MW-318	Bedrock	130.75	87.3	7.79	122.96	--
MW-319	Bedrock	132.98	79.50	9.32	123.66	--
MW-320	Bedrock	131.74	68.60	8.71	123.03	--
MW-321	Bedrock	130.48	Abandoned August/September 2015			--
MW-322	Bedrock	130.65	Abandoned August/September 2015			--
MW-323	Bedrock	130.53	Abandoned August/September 2015			--
MW-324	Bedrock	130.98	Abandoned August/September 2015			--
MW-325	Bedrock	131.44	105	9.73	121.71	--
MW-500BR	Bedrock	132.66	55.10	9.06	123.60	--
MW-503BR	Bedrock	131.57	Abandoned October 2017			--
MW-504BR	Bedrock	130.91	Abandoned October 2017			--
MW-506BR	Bedrock	139.22	Destroyed			--
MW-507BR	Bedrock	138.75	97.7	15.71	123.04	--
MW-508BR	Bedrock	133.25	73.7	10.15	123.10	--
MW-509BR	Bedrock	130.63	Abandoned October 2017			--
MW-510BR	Bedrock	130.75	Abandoned October 2017			--
MW-511BR	Bedrock	130.82	Abandoned October 2017			--
MW-512BR	Bedrock	131.69	Abandoned October 2017			--
MW-513BR	Bedrock	132.03	63.70	8.85	123.18	--

Notes:

Groundwater measurements taken 1/22/18

ft = Feet

AMSL = above mean sea level

BTOC = below top of casing

NAPL = non aqueous phase liquid

NM = not measured

[(2)] = Obstruction encountered in well at a depth of 10.72' BTOC.

Prepared by/date: RJB 3/1/18

Checked by/date: RMB 3/2/18

Table 3-2
Groundwater Analytical Results for Alluvium Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

		Location ID:	MW-05	MW-402S	MW-408S	MW-501S	MW-501S
		Sample Date:	1/23/2018	1/24/2018	1/25/2018	1/25/2018	1/25/2018
		Sample Type:	Sample	Sample	Sample	Sample	Duplicate
	Type 1 RRS	Units					
Field Parameters:							
Specific Conductance	--	mS/cm	0.712	0.613	1.038	0.554	0.554
Dissolved Oxygen	--	mg/L	0.22	0.7	0.14	0.43	0.43
Oxidation Reduction Potential	--	mV	-91.1	-32.2	-87.4	2.5	2.5
pH	--	pH units	6.13	6.12	6.55	6.8	6.8
Temperature	--	deg C	19.87	20.94	19.22	14.92	14.92
Turbidity	--	NTU	8.84	0.84	9.68	1.38	1.38
VOCs:							
Acetone	4000	ug/L	< 50	< 50	< 50	< 50	< 50
Benzene	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide	4000	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	700	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride (Dichloromethane)	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	1000	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene (TCE)	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Xylenes, Total	10000	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
SVOCs:							
Acenaphthene	2000	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	10	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Anthracene	10	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	0.1	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	10	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	0.2	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	1000	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	1000	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	0.4	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	20	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	10	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	1000	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Inorganics:							
Antimony	0.006	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
Arsenic	0.05	mg/L	< 0.05	< 0.05	**0.0651**	< 0.05	< 0.05
Barium	2.0	mg/L	**0.337**	**0.0936**	**0.441**	**0.093**	**0.0813**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Vanadium	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	2.0	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Notes:
RRS = Risk Reduction Standard
ug/L = micrograms per liter
mg/L = milligrams per liter
-- = RRS not applicable for this analyte

Prepared by/date: RJB 2/22/18
Checked by/date: RMB 2/23/18

Data Qualifier Defintions:
< = Not detected at or above the reported detection limit
BOLD = Exceeds the laboratory detection limit
Analyte concentration exceeds the Type 1 RRS

Table 3-3
Groundwater Analytical Results for Galliard Formation Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

		Location ID:	MW-12	MW-12	MW-19	MW-19	MW-21	MW-22
		Sample Date:	1/23/2018	1/23/2018	1/25/2018	1/25/2018	1/25/2018	1/24/2018
		Sample Type:	Sample	Duplicate	Sample	Duplicate	Sample	Sample
	Type 1 RRS	Units						
Field Parameters:								
Specific Conductance	--	mS/cm	0.239	0.234	0.472	0.472	0.629	0.219
Dissolved Oxygen	--	mg/L	0.12	0.12	0.69	0.69	0.37	1.41
Oxidation Reduction Potential	--	mV	-67.5	-67.5	-11	-11	83.4	102
pH	--	pH units	5.4	5.4	6.38	6.38	6.36	6.23
Temperature	--	deg C	21.68	21.68	19.65	19.65	22.17	19.9
Turbidity	--	NTU	2.26	2.26	2.19	2.19	1.75	2.93
VOCs:								
Acetone	4000	ug/L	< 2500	< 2500	< 50	< 50	< 50	< 50
Benzene	5.0	ug/L	**11000**	**11000**	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide	4000	ug/L	< 250	< 250	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	700	ug/L	**2400**	**2400**	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride (Dichloromethane)	5.0	ug/L	< 250	< 250	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	1000	ug/L	**920**	**940**	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene (TCE)	5.0	ug/L	< 250	< 250	< 5.0	< 5.0	**8.3**	< 5.0
Xylenes, Total	10000	ug/L	**1700**	**1800**	< 5.0	< 5.0	< 5.0	< 5.0
SVOCs:								
Acenaphthene	2000	ug/L	**100**	**120**	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	10	ug/L	**3.3 J**	**5.2 J**	< 1.0	< 1.0	< 1.0	< 1.0
Anthracene	10	ug/L	**2.1 J**	**2.3**	**0.098**	**0.099**	< 0.05	< 0.05
Benzo(a)anthracene	0.1	ug/L	**0.053 J**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	10	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	0.2	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	1000	ug/L	**0.29 J**	**0.29**	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	1000	ug/L	**21**	**23**	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	0.4	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	20	ug/L	**5500**	**6500**	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	10	ug/L	**13**	**14**	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	1000	ug/L	**0.33 J**	**0.36**	< 0.05	< 0.05	< 0.05	< 0.05
Inorganics:								
Antimony	0.006	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Barium	2.0	mg/L	**0.165**	**0.16**	**0.0856**	**0.0851**	**0.0904**	**0.0359**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cyanide	0.2	mg/L	< 0.01	< 0.01	**0.016**	**0.016**	< 0.01	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	**0.0312**	**0.0322**	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Vanadium	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	2.0	mg/L	< 0.02	< 0.02	**0.0653**	**0.063**	< 0.02	< 0.02

Notes:
RRS = Risk Reduction Standard
ug/L = micrograms per liter
mg/L = milligrams per liter
-- = RRS not applicable for this analyte

Data Qualifier Defintions:
< = Not detected at or above the reported detection limit
J = Detected, estimated due to QC criteria
BOLD = Exceeds the laboratory detection limit
Analyte concentration exceeds the Type 1 RRS
Detection limit exceeds the Type 1 RRS

Table 3-3
Groundwater Analytical Results for Galliard Formation Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

		Location ID:	MW-203	MW-206	MW-207	MW-303	MW-304	MW-306D
		Sample Date:	1/25/2018	1/24/2018	1/23/2018	1/23/2018	1/23/2018	1/23/2018
		Sample Type:	Sample	Sample	Sample	Sample	Sample	Sample
	Type 1 RRS	Units						
Field Parameters:								
Specific Conductance	--	mS/cm	0.455	0.683	0.506	0.468	0.546	1.401
Dissolved Oxygen	--	mg/L	2.97	0.99	0.13	0.12	0.19	0.3
Oxidation Reduction Potential	--	mV	185.4	-52.3	-32.3	-55.1	-39	-8.2
pH	--	pH units	6.38	6.8	5.46	6.08	6.07	6.09
Temperature	--	deg C	18.04	18.97	21	23.18	18.56	21.4
Turbidity	--	NTU	1.67	4.57	8.88	0.36	1.23	0.28
VOCs:								
Acetone	4000	ug/L	< 50	< 50	< 50	< 50	< 50	< 50
Benzene	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	**300**	< 5.0
Carbon disulfide	4000	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	700	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride (Dichloromethane)	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	1000	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene (TCE)	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Xylenes, Total	10000	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	**5.3**	< 5.0
SVOCs:								
Acenaphthene	2000	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	**250**	< 0.5
Acenaphthylene	10	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Anthracene	10	ug/L	< 0.05	< 0.05	< 0.05	**0.43**	**0.28**	< 0.05
Benzo(a)anthracene	0.1	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	10	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	0.2	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	1000	ug/L	< 0.1	< 0.1	< 0.1	**0.46**	**0.29**	< 0.1
Fluorene	1000	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	**2.9**	< 0.1
Indeno(1,2,3-cd)pyrene	0.4	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	20	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	**220**	< 0.5
Phenanthrene	10	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	**1.4**	< 0.05
Pyrene	1000	ug/L	< 0.05	< 0.05	< 0.05	**1.3**	**0.36**	**0.076**
Inorganics:								
Antimony	0.006	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Barium	2.0	mg/L	**0.0755**	**0.451**	**0.251**	**0.0625**	**0.326**	**0.67**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Vanadium	0.2	mg/L	**0.0228**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	2.0	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Notes:
RRS = Risk Reduction Standard
ug/L = micrograms per liter
mg/L = milligrams per liter
-- = RRS not applicable for this analyte

Data Qualifier Defintions:
< = Not detected at or above the reported detection limit
J = Detected, estimated due to QC criteria
BOLD = Exceeds the laboratory detection limit
Analyte concentration exceeds the Type 1 RRS
Detection limit exceeds the Type 1 RRS

Table 3-3
Groundwater Analytical Results for Galliard Formation Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

		Location ID:	MW-402D	MW-404DR	MW-408DR	MW-505D	MW-602
		Sample Date:	1/24/2018	1/25/2018	1/25/2018	1/23/2018	1/23/2018
		Sample Type:	Sample	Sample	Sample	Sample	Sample
	Type 1 RRS	Units					
Field Parameters:							
Specific Conductance	--	mS/cm	0.705	0.313	0.602	0.632	0.538
Dissolved Oxygen	--	mg/L	0.15	1.63	0.19	0.24	0.13
Oxidation Reduction Potential	--	mV	-33.2	-15.6	15.8	-33.2	-49.9
pH	--	pH units	6.18	6.3	5.79	6.11	6.07
Temperature	--	deg C	20.79	18.29	18.71	19.53	20.77
Turbidity	--	NTU	1.03	4.09	21.1	1.37	2.23
VOCs:							
Acetone	4000	ug/L	< 50	< 50	< 50	< 50	< 50
Benzene	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide	4000	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	700	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride (Dichloromethane)	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	1000	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene (TCE)	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Xylenes, Total	10000	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
SVOCs:							
Acenaphthene	2000	ug/L	< 0.5	< 0.5	**20**	**93**	**1.6**
Acenaphthylene	10	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Anthracene	10	ug/L	< 0.05	< 0.05	**0.48**	**0.28**	**0.19**
Benzo(a)anthracene	0.1	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	10	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	0.2	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	1000	ug/L	< 0.1	< 0.1	**0.14**	**0.45**	< 0.1
Fluorene	1000	ug/L	< 0.1	< 0.1	**0.73**	**1.6**	**0.12**
Indeno(1,2,3-cd)pyrene	0.4	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	20	ug/L	< 0.5	< 0.5	< 0.5	**130**	< 0.5
Phenanthrene	10	ug/L	< 0.05	< 0.05	**2.8**	**1.4**	< 0.05
Pyrene	1000	ug/L	< 0.05	< 0.05	**0.11**	**0.69**	**0.082**
Inorganics:							
Antimony	0.006	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Barium	2.0	mg/L	**0.108**	**0.0832**	**0.508**	**0.333**	**0.343**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Vanadium	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	2.0	mg/L	< 0.02	**0.0289**	**0.023**	< 0.02	< 0.02

Notes:
RRS = Risk Reduction Standard
ug/L = micrograms per liter
mg/L = milligrams per liter
-- = RRS not applicable for this analyte

Prepared by/date: RJB 2/22/18
Checked by/date: RMB 2/23/18

Data Qualifier Defintions:
< = Not detected at or above the reported detection limit
J = Detected, estimated due to QC criteria
BOLD = Exceeds the laboratory detection limit
Analyte concentration exceeds the Type 1 RRS
Detection limit exceeds the Type 1 RRS

Table 3-4
Groundwater Analytical Results for Saprolite Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

		Location ID:	MW-214	MW-306SAP	MW-310SAP	MW-311
		Sample Date:	1/24/2018	1/23/2018	1/24/2018	1/24/2018
		Sample Type:	Sample	Sample	Sample	Sample
	Type 1 RRS	Units				
Field Parameters:						
Specific Conductance	--	mS/cm	0.287	1.453	0.445	0.256
Dissolved Oxygen	--	mg/L	0.13	3.41	0.34	0.54
Oxidation Reduction Potential	--	mV	-82.9	37.4	-33.2	171.2
pH	--	pH units	6.77	6.07	7.2	6.54
Temperature	--	deg C	20.31	19.93	17.83	17.93
Turbidity	--	NTU	0.98	4.67	0.25	4.58
VOCs:						
Acetone	4000	ug/L	< 50	< 50	< 50	< 50
Benzene	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide	4000	ug/L	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	700	ug/L	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride (Dichloromethane)	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	1000	ug/L	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene (TCE)	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0
Xylenes, Total	10000	ug/L	< 5.0	< 5.0	< 5.0	< 5.0
SVOCs:						
Acenaphthene	2000	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	10	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Anthracene	10	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	0.1	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	10	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	0.2	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	1000	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	1000	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	0.4	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	20	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	10	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	1000	ug/L	< 0.05	**0.058**	< 0.05	< 0.05
Inorganics:						
Antimony	0.006	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Barium	2.0	mg/L	**0.4**	**0.676**	**0.089**	**0.0112**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	**0.0423**
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	**0.396**	**0.431**	**0.0368**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Vanadium	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	2.0	mg/L	< 0.02	< 0.02	< 0.02	**0.168**

Notes:
RRS = Risk Reduction Standard
ug/L = micrograms per liter
mg/L = milligrams per liter
-- = RRS not applicable for this analyte

Prepared by/date: RJB 2/22/18
Checked by/date: RMB 2/23/18

Data Qualifier Defintions:
< = Not detected at or above the reported detection limit
BOLD = Exceeds the laboratory detection limit
Analyte concentration exceeds the Type 1 RRS

Table 3-5
Groundwater Analytical Results for Transition Zone Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

		Location ID:	MW-306TZ
		Sample Date:	1/23/2018
		Sample Type:	Sample
	Type 1 RRS	Units	
Field Parameters:			
Specific Conductance	--	mS/cm	0.754
Dissolved Oxygen	--	mg/L	0.4
Oxidation Reduction Potential	--	mV	-64.4
pH	--	pH units	6.68
Temperature	--	deg C	21.57
Turbidity	--	NTU	0.66
VOCs:			
Acetone	4000	ug/L	< 50
Benzene	5.0	ug/L	< 5.0
Carbon disulfide	4000	ug/L	< 5.0
Ethylbenzene	700	ug/L	< 5.0
Methylene chloride (Dichloromethane)	5.0	ug/L	< 5.0
Toluene	1000	ug/L	< 5.0
Trichloroethene (TCE)	5.0	ug/L	< 5.0
Xylenes, Total	10000	ug/L	**6.9**
SVOCs:			
Acenaphthene	2000	ug/L	**18**
Acenaphthylene	10	ug/L	< 1.0
Anthracene	10	ug/L	**0.35 J**
Benzo(a)anthracene	0.1	ug/L	< 0.05
Benzo(a)pyrene	0.2	ug/L	< 0.05
Benzo(b)fluoranthene	0.2	ug/L	< 0.1
Benzo(g,h,i)perylene	10	ug/L	< 0.1
Benzo(k)fluoranthene	10	ug/L	< 0.05
Chrysene	0.2	ug/L	< 0.05
Dibenzo(a,h)anthracene	0.3	ug/L	< 0.1
Fluoranthene	1000	ug/L	**0.18 J**
Fluorene	1000	ug/L	**2.9 J**
Indeno(1,2,3-cd)pyrene	0.4	ug/L	< 0.05
Naphthalene	20	ug/L	**350**
Phenanthrene	10	ug/L	**1.6 J**
Pyrene	1000	ug/L	**0.18 J**
Inorganics:			
Antimony	0.006	mg/L	< 0.006
Arsenic	0.05	mg/L	< 0.05
Barium	2.0	mg/L	**0.65**
Beryllium	0.004	mg/L	< 0.004
Cadmium	0.005	mg/L	< 0.005
Chromium	0.1	mg/L	< 0.01
Copper	1.3	mg/L	< 0.01
Cyanide	0.2	mg/L	< 0.01
Lead	0.015	mg/L	< 0.01
Mercury	0.002	mg/L	< 0.0002
Nickel	0.1	mg/L	< 0.02
Selenium	0.05	mg/L	< 0.02
Thallium	0.002	mg/L	< 0.002
Vanadium	0.2	mg/L	< 0.01
Zinc	2.0	mg/L	< 0.02

Notes:
RRS = Risk Reduction Standard
ug/L = micrograms per liter
mg/L = milligrams per liter
-- = RRS not applicable for this analyte

Prepared by/date: RJB 2/22/18
Checked by/date: RMB 2/23/18

Data Qualifier Defintions:
< = Not detected at or above the reported detection limit
J = Detected, estimated due to QC criteria
BOLD = Exceeds the laboratory detection limit
Analyte concentration exceeds the Type 1 RRS

Table 3-6
Groundwater Analytical Results for Bedrock Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

		Location ID:	MW-306BR	MW-306BR	MW-309BR	MW-310BR	MW-313
		Sample Date:	1/23/2018	1/23/2018	1/23/2018	1/24/2018	1/25/2018
		Sample Type:	Sample	Duplicate	Sample	Sample	Sample
	Type 1 RRS	Units					
Field Parameters:							
Specific Conductance	--	mS/cm	0.561	0.561	0.265	0.356	0.2
Dissolved Oxygen	--	mg/L	0.41	0.41	0.07	0.1	2.15
Oxidation Reduction Potential	--	mV	-123.6	-123.6	-81.6	-55.1	99.6
pH	--	pH units	7.04	7.04	8.24	6.73	10.36
Temperature	--	deg C	21.41	21.41	20.94	19.84	20.43
Turbidity	--	NTU	2.9	2.9	0.73	1.01	4.21
VOCs:							
Acetone	4000	ug/L	< 50	< 50	< 50	< 50	< 50
Benzene	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide	4000	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	700	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride (Dichloromethane)	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	1000	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene (TCE)	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Xylenes, Total	10000	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
SVOCs:							
Acenaphthene	2000	ug/L	**14**	**16**	< 0.5	< 0.5	< 0.5
Acenaphthylene	10	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Anthracene	10	ug/L	**0.25**	**0.26**	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	0.1	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	10	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	0.2	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	1000	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	1000	ug/L	**2.3**	**2.5**	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	0.4	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	20	ug/L	**330**	**360**	< 0.5	< 0.5	< 0.5
Phenanthrene	10	ug/L	**1.2**	**1.3**	< 0.05	< 0.05	< 0.05
Pyrene	1000	ug/L	**0.11**	**0.12**	< 0.05	< 0.05	< 0.05
Inorganics:							
Antimony	0.006	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Barium	2.0	mg/L	**0.453**	**0.451**	**0.31**	**0.286**	**0.118**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Vanadium	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	2.0	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	**0.0283**

Notes:
RRS = Risk Reduction Standard
ug/L = micrograms per liter
mg/L = milligrams per liter
-- = RRS not applicable for this analyte

Data Qualifier Defintions:
< = Not detected at or above the reported detection limit
BOLD = Exceeds the laboratory detection limit
Analyte concentration exceeds the Type 1 RRS
Detection limit exceeds the Type 1 RRS

Table 3-6
Groundwater Analytical Results for Bedrock Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

		Location ID:	MW-315	MW-318	MW-319	MW-320	MW-325
		Sample Date:	1/24/2018	1/24/2018	1/25/2018	1/25/2018	1/25/2018
		Sample Type:	Sample	Sample	Sample	Sample	Sample
	Type 1 RRS	Units					
Field Parameters:							
Specific Conductance	--	mS/cm	0.569	0.732	0.456	0.091	0.211
Dissolved Oxygen	--	mg/L	0.25	0.21	0.25	4.6	0.22
Oxidation Reduction Potential	--	mV	-77.1	-82.3	-150.4	56	64
pH	--	pH units	6.67	6.72	7.16	9.19	7.99
Temperature	--	deg C	21.31	20.92	19.42	22.88	22.18
Turbidity	--	NTU	3.88	6.89	4.35	0.65	4.81
VOCs:							
Acetone	4000	ug/L	< 50	< 50	< 50	< 50	< 50
Benzene	5.0	ug/L	< 5.0	**59**	< 5.0	< 5.0	< 5.0
Carbon disulfide	4000	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	700	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride (Dichloromethane)	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	1000	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene (TCE)	5.0	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Xylenes, Total	10000	ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
SVOCs:							
Acenaphthene	2000	ug/L	**0.96**	**9.9**	< 0.5	< 0.5	< 0.5
Acenaphthylene	10	ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Anthracene	10	ug/L	< 0.05	**0.19**	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	0.1	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	10	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	0.2	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	1000	ug/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	1000	ug/L	< 0.1	**1.7**	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	0.4	ug/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	20	ug/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	10	ug/L	< 0.05	**0.71**	< 0.05	< 0.05	< 0.05
Pyrene	1000	ug/L	**0.059**	**0.1**	< 0.05	< 0.05	< 0.05
Inorganics:							
Antimony	0.006	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Barium	2.0	mg/L	**0.465**	**0.666**	**0.835**	**0.0136**	**0.105**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Vanadium	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	2.0	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Notes:
RRS = Risk Reduction Standard
ug/L = micrograms per liter
mg/L = milligrams per liter
-- = RRS not applicable for this analyte

Data Qualifier Defintions:
< = Not detected at or above the reported detection limit
BOLD = Exceeds the laboratory detection limit
Analyte concentration exceeds the Type 1 RRS
Detection limit exceeds the Type 1 RRS

Table 3-6
Groundwater Analytical Results for Bedrock Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

		Location ID:	MW-500BR	MW-507BR	MW-508BR	MW-513BR
		Sample Date:	1/25/2018	1/25/2018	1/23/2018	1/24/2018
		Sample Type:	Sample	Sample	Sample	Sample
	Type 1 RRS	Units				
Field Parameters:						
Specific Conductance	--	mS/cm	0.489	0.38	1.057	0.565
Dissolved Oxygen	--	mg/L	0.06	1.36	3.78	0.38
Oxidation Reduction Potential	--	mV	-48.1	-23.5	-18.3	-45.3
pH	--	pH units	11.3	9.46	11.43	6.38
Temperature	--	deg C	20.98	18.59	21	20.02
Turbidity	--	NTU	7.46	9.86	0.93	5.16
VOCs:						
Acetone	4000	ug/L	< 2500	< 50	< 50	< 50
Benzene	5.0	ug/L	**17000**	< 5.0	< 5.0	< 5.0
Carbon disulfide	4000	ug/L	< 250	< 5.0	< 5.0	< 5.0
Ethylbenzene	700	ug/L	**1800**	< 5.0	< 5.0	< 5.0
Methylene chloride (Dichloromethane)	5.0	ug/L	< 250	< 5.0	< 5.0	< 5.0
Toluene	1000	ug/L	< 250	< 5.0	< 5.0	< 5.0
Trichloroethene (TCE)	5.0	ug/L	< 250	< 5.0	< 5.0	< 5.0
Xylenes, Total	10000	ug/L	**320**	< 5.0	< 5.0	< 5.0
SVOCs:						
Acenaphthene	2000	ug/L	**110**	< 0.5	< 0.5	**6.6**
Acenaphthylene	10	ug/L	**1.5**	< 1.0	< 1.0	< 1.0
Anthracene	10	ug/L	**3.2**	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	0.1	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	10	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	0.2	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	1000	ug/L	**1.2**	< 0.1	< 0.1	< 0.1
Fluorene	1000	ug/L	**16**	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	0.4	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	20	ug/L	**3900**	< 0.5	< 0.5	< 0.5
Phenanthrene	10	ug/L	**17**	< 0.05	< 0.05	< 0.05
Pyrene	1000	ug/L	**1.7**	< 0.05	< 0.05	**0.11**
Inorganics:						
Antimony	0.006	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Barium	2.0	mg/L	**0.64**	**0.0763**	**0.242**	**0.712**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Vanadium	0.2	mg/L	< 0.01	< 0.01	**0.0149**	< 0.01
Zinc	2.0	mg/L	< 0.02	**0.0276**	< 0.02	< 0.02

Notes:
RRS = Risk Reduction Standard
ug/L = micrograms per liter
mg/L = milligrams per liter
-- = RRS not applicable for this analyte

Prepared by/date: RJB 2/22/18
Checked by/date: RMB 2/23/18

Data Qualifier Defintions:
< = Not detected at or above the reported detection limit
BOLD = Exceeds the laboratory detection limit
Analyte concentration exceeds the Type 1 RRS
Detection limit exceeds the Type 1 RRS

Table 3-7
Detections and RRS Exceedances in the Alluvium Wells
January 2018 Montoring Event
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Parameter	Type 1 RRS	Number of Wells Sampled	Number of Detections	Range of Detected Concentrations	Number of Wells > Type1 RRS	Wells with Type 1 RRS Exceedances
Inorganics (mg/L)						
Antimony	0.006	4	0	--	0	--
Arsenic	0.05	4	1	0.0651	1	MW-408S
Barium	2.0	4	4	0.093 - 0.441	0	--
Beryllium	0.004	4	0	--	0	--
Cadmium	0.005	4	0	--	0	--
Chromium	0.1	4	0	--	0	--
Copper	1.3	4	0	--	0	--
Cyanide	0.2	4	0	--	0	--
Lead	0.015	4	0	--	0	--
Mercury	0.002	4	0	--	0	--
Nickel	0.1	4	0	--	0	--
Selenium	0.05	4	0	--	0	--
Thallium	0.002	4	0	--	0	--
Vanadium	0.2	4	0	--	0	--
Zinc	2.0	4	0	--	0	--
Semi Volatile Organic Compounds (µg/L)						
Acenaphthene	2000	4	0	--	0	--
Acenaphthylene	10	4	0	--	0	--
Anthracene	10	4	0	--	0	--
Benzo(a)anthracene	0.1	4	0	--	0	--
Benzo(a)pyrene	0.2	4	0	--	0	--
Benzo(b)fluoranthene	0.2	4	0	--	0	--
Benzo(g,h,i)perylene	10	4	0	--	0	--
Benzo(k)fluoranthene	10	4	0	--	0	--
Chrysene	0.2	4	0	--	0	--
Dibenzo(a,h)anthracene	0.3	4	0	--	0	--
Fluoranthene	1000	4	0	--	0	--
Fluorene	1000	4	0	--	0	--
Indeno(1,2,3-cd)pyrene	0.4	4	0	--	0	--
Naphthalene	20	4	0	--	0	
Phenanthrene	10	4	0	--	0	--
Pyrene	1000	4	0	--	0	--
Volatile Organic Compounds (µg/L)						
Acetone	4000	4	0	--	0	--
Benzene	5.0	4	0	--	0	--
Carbon Disulfide	4000	4	0	--	0	--
Ethylbenzene	700	4	0	--	0	--
Methylene Chloride	5.0	4	0	--	0	--
Toluene	1000	4	0	--	0	--
Trichloroethylene	5.0	4	0	--	0	--
Xylenes, total	10000	4	0	--	0	--

Notes:
mg/L - milligrams per liter
µg/L - micrograms per liter
RRS - Risk Reduction Standard

Prepared by/date: RJB 2/26/18
Checked by/date: RMB 2/27/18

Table 3-8
Detections and RRS Exceedances in the Galliard Formation Wells
January 2018 Montoring Event
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Parameter	Type 1 RRS	Number of Wells Sampled	Number of Detections	Range of Detected Concentrations	Number of Wells > Type1 RRS	Wells with Type 1 RRS Exceedances
Inorganics (mg/L)						
Antimony	0.006	15	0	--	0	--
Arsenic	0.05	15	0	--	0	--
Barium	2.0	15	15	0.0359 - 0.67	0	--
Beryllium	0.004	15	0	--	0	--
Cadmium	0.005	15	0	--	0	--
Chromium	0.1	15	0	--	0	--
Copper	1.3	15	0	--	0	--
Cyanide	0.2	15	1	0.016	0	--
Lead	0.015	15	0	--	0	--
Mercury	0.002	15	0	--	0	--
Nickel	0.1	15	1	0.0322	0	--
Selenium	0.05	15	0	--	0	--
Thallium	0.002	15	0	--	0	--
Vanadium	0.2	15	1	0.0228	0	--
Zinc	2.0	15	3	0.023 - 0.0653	0	--
Semi Volatile Organic Compounds (µg/L)						
Acenaphthene	2000	15	5	1.6 - 250	0	--
Acenaphthylene	10	15	1	5.2	0	--
Anthracene	10	15	7	0.098 - 2.3	0	--
Benzo(a)anthracene	0.1	15	1	0.053	0	--
Benzo(a)pyrene	0.2	15	0	--	0	--
Benzo(b)fluoranthene	0.2	15	0	--	0	--
Benzo(g,h,i)perylene	10	15	0	--	0	--
Benzo(k)fluoranthene	10	15	0	--	0	--
Chrysene	0.2	15	0	--	0	--
Dibenzo(a,h)anthracene	0.3	15	0	--	0	--
Fluoranthene	1000	15	5	0.14 - 0.46	0	--
Fluorene	1000	15	5	0.12 - 23	0	--
Indeno(1,2,3-cd)pyrene	0.4	15	0	--	0	--
Naphthalene	20	15	3	130 - 6500	3	MW-12, MW-304, MW-505D
Phenanthrene	10	15	4	1.4 - 14	1	MW-12
Pyrene	1000	15	7	0.076 - 1.3	0	--
Volatile Organic Compounds (µg/L)						
Acetone	4000	15	0	--	0	--
Benzene	5.0	15	2	300 - 11000	2	MW-12, MW-304
Carbon Disulfide	4000	15	0	--	0	--
Ethylbenzene	700	15	1	2400	1	MW-12
Methylene Chloride	5.0	15	0	--	0	--
Toluene	1000	15	1	940	0	--
Trichloroethylene	5.0	15	1	8.3	1	MW-21
Xylenes, total	10000	15	2	5.3 - 1800	0	--

Notes:
mg/L - milligrams per liter
ug/L - micrograms per liter
RRS - Risk Reduction Standard

Prepared by/date: RJB 2/26/18
Checked by/date: RMB 2/27/18

Table 3-9
Detections and RRS Exceedances in the Saprolite Wells
January 2018 Montoring Event
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Parameter	Type 1 RRS	Number of Wells Sampled	Number of Detections	Range of Detected Concentrations	Number of Wells > Type1 RRS	Wells with Type 1 RRS Exceedances
Inorganics (mg/L)						
Antimony	0.006	4	0	--	0	--
Arsenic	0.05	4	0	--	0	--
Barium	2.0	4	4	0.0112 - 0.676	0	--
Beryllium	0.004	4	0	--	0	--
Cadmium	0.005	4	1	0.0423	1	MW-311
Chromium	0.1	4	0	--	0	--
Copper	1.3	4	0	--	0	--
Cyanide	0.2	4	0	--	0	--
Lead	0.015	4	0	--	0	--
Mercury	0.002	4	0	--	0	--
Nickel	0.1	4	3	0.0368 - 0.431	2	MW-306SAP, MW-310SAP
Selenium	0.05	4	0	--	0	--
Thallium	0.002	4	0	--	0	--
Vanadium	0.2	4	0	--	0	--
Zinc	2.0	4	1	0.168	0	--
Semi Volatile Organic Compounds (ug/L)				--		
Acenaphthene	2000	4	0	--	0	--
Acenaphthylene	10	4	0	--	0	--
Anthracene	10	4	0	--	0	--
Benzo(a)anthracene	0.1	4	0	--	0	--
Benzo(a)pyrene	0.2	4	0	--	0	--
Benzo(b)fluoranthene	0.2	4	0	--	0	--
Benzo(g,h,i)perylene	10	4	0	--	0	--
Benzo(k)fluoranthene	10	4	0	--	0	--
Chrysene	0.2	4	0	--	0	--
Dibenzo(a,h)anthracene	0.3	4	0	--	0	--
Fluoranthene	1000	4	0	--	0	--
Fluorene	1000	4	0	--	0	--
Indeno(1,2,3-cd)pyrene	0.4	4	0	--	0	--
Naphthalene	20	4	0	--	0	--
Phenanthrene	10	4	0	--	0	--
Pyrene	1000	4	1	0.058	0	--
Volatile Organic Compounds (ug/L)				--		
Acetone	4000	4	0	--	0	--
Benzene	5.0	4	0	--	0	--
Carbon Disulfide	4000	4	0	--	0	--
Ethylbenzene	700	4	0	--	0	--
Methylene Chloride	5.0	4	0	--	0	--
Toluene	1000	4	0	--	0	--
Trichloroethylene	5.0	4	0	--	0	--
Xylenes, total	10000	4	0	--	0	--

Notes:
mg/L - milligrams per liter
ug/L - micrograms per liter
RRS - Risk Reduction Standard

Prepared by/date: RJB 2/26/18
Checked by/date: RMB 2/27/18

Table 3-10
Detections and RRS Exceedances in the Transition Zone Wells
January 2018 Montoring Event
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Parameter	Type1 RRS	Number of Wells Sampled	Number of Detections	Range of Detected Concentrations	Number of Wells > Type1 RRS	Wells with Type 1 RRS Exceedances
Inorganics (mg/L)						
Antimony	0.006	1	0	--	0	--
Arsenic	0.05	1	0	--	0	--
Barium	2.0	1	1	0.65	0	--
Beryllium	0.004	1	0	--	0	--
Cadmium	0.005	1	0	--	0	--
Chromium	0.1	1	0	--	0	--
Copper	1.3	1	0	--	0	--
Cyanide	0.2	1	0	--	0	--
Lead	0.015	1	0	--	0	--
Mercury	0.002	1	0	--	0	--
Nickel	0.1	1	0	--	0	--
Selenium	0.05	1	0	--	0	--
Vanadium	0.2	1	0	--	0	--
Zinc	2.0	1	0	--	0	--
Thallium	0.002	1	0	--	0	--
Semi Volatile Organic Compounds (ug/L)				--		
Acenaphthene	2000	1	1	18	0	--
Acenaphthylene	10	1	0	--	0	--
Anthracene	10	1	1	0.35	0	--
Benzo(a)anthracene	0.1	1	0	--	0	--
Benzo(a)pyrene	0.2	1	0	--	0	--
Benzo(b)fluoranthene	0.2	1	0	--	0	--
Benzo(g,h,i)perylene	10	1	0	--	0	--
Benzo(k)fluoranthene	10	1	0	--	0	--
Chrysene	0.2	1	0	--	0	--
Dibenzo(a,h)anthracene	0.3	1	0	--	0	--
Fluoranthene	1000	1	1	0.18	0	--
Fluorene	1000	1	1	2.9	0	--
Indeno(1,2,3-cd)pyrene	0.4	1	0	--	0	--
Naphthalene	20	1	1	350	1	MW-306TZ
Phenanthrene	10	1	1	1.6	0	--
Pyrene	1000	1	1	0.18	0	--
Volatile Organic Compounds (ug/L)				--		
Acetone	4000	1	0	--	0	--
Benzene	5.0	1	0	--	0	--
Carbon Disulfide	4000	1	0	--	0	--
Ethylbenzene	700	1	0	--	0	--
Methylene Chloride	5.0	1	0	--	0	--
Toluene	1000	1	0	--	0	--
Trichloroethylene	5.0	1	0	--	0	--
Xylenes, total	10000	1	1	6.9	0	--

Notes:
mg/L - milligrams per liter
ug/L - micrograms per liter
RRS - Risk Reduction Standard

Prepared by/date: RJB 2/26/18
Checked by/date: RMB 2/27/18

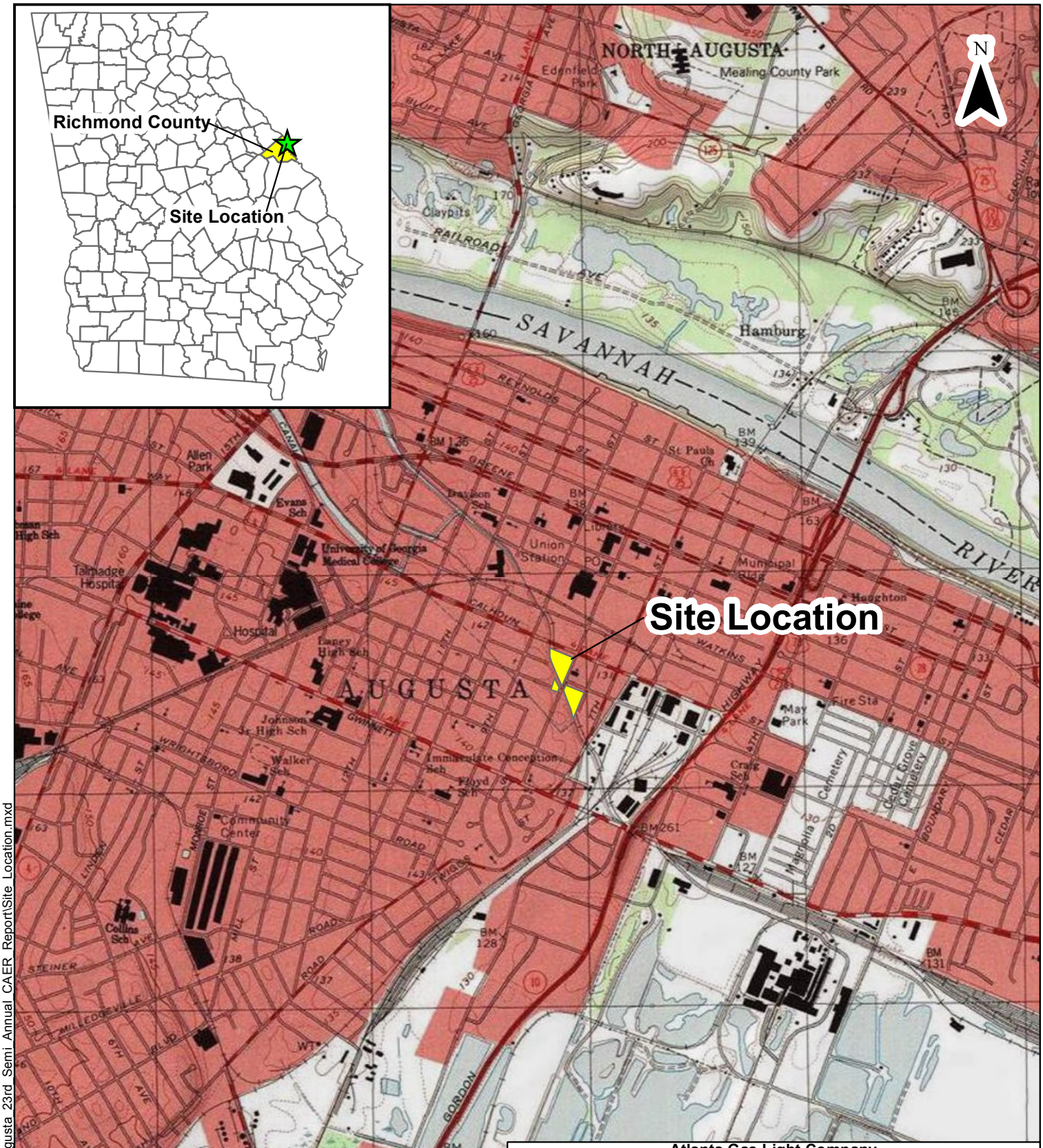
Table 3-11
Detections and RRS Exceedances in the Bedrock Wells
January 2018 Montoring Event
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Parameter	Type 1 RRS	Number of Wells Sampled	Number of Detections	Range of Detected Concentrations	Number of Wells > Type1 RRS	Wells with Type 1 RRS Exceedances
Inorganics (mg/L)						
Antimony	0.006	13	0	--	0	--
Arsenic	0.05	13	0	--	0	--
Barium	2.0	13	13	0.0136 - 0.835	0	--
Beryllium	0.004	13	0	--	0	--
Cadmium	0.005	13	0	--	0	--
Chromium	0.1	13	0	--	0	--
Copper	1.3	13	0	--	0	--
Cyanide	0.2	13	0	--	0	--
Lead	0.015	13	0	--	0	--
Mercury	0.002	13	0	--	0	--
Nickel	0.1	13	0	--	0	--
Selenium	0.05	13	0	--	0	--
Thallium	0.002	13	0	--	0	--
Vanadium	0.2	13	1	0.0149	0	--
Zinc	2.0	13	2	0.0276 - 0.0283	0	--
Semi Volatile Organic Compounds (ug/L)						
Acenaphthene	2000	13	5	0.96 - 110	0	--
Acenaphthylene	10	13	1	1.5	0	--
Anthracene	10	13	3	0.19 - 3.2	0	--
Benzo(a)anthracene	0.1	13	0	--	0	--
Benzo(a)pyrene	0.2	13	0	--	0	--
Benzo(b)fluoranthene	0.2	13	0	--	0	--
Benzo(g,h,i)perylene	10	13	0	--	0	--
Benzo(k)fluoranthene	10	13	0	--	0	--
Chrysene	0.2	13	0	--	0	--
Dibenzo(a,h)anthracene	0.3	13	0	--	0	--
Fluoranthene	1000	13	1	1.2	0	--
Fluorene	1000	13	3	1.7 - 16	0	--
Indeno(1,2,3-cd)pyrene	0.4	13	0		0	--
Naphthalene	20	13	2	330 - 3900	2	MW-306BR, MW-500BR
Phenanthrene	10	13	3	0.71 - 17	1	MW-500BR
Pyrene	1000	13	5	0.059 - 1.7	0	--
Volatile Organic Compounds (ug/L)						
Acetone	4000	13	0	--	0	--
Benzene	5.0	13	2	59 - 17000	2	MW-318, MW-500BR
Carbon Disulfide	4000	13	0	--	0	--
Ethylbenzene	700	13	1	1800	1	MW-500BR
Methylene Chloride	5.0	13	0	--	0	--
Toluene	1000	13	0	--	0	--
Trichloroethylene	5.0	13	0	--	0	--
Xylenes, total	10000	13	1	320	0	--

Notes:
mg/L - milligrams per liter
ug/L - micrograms per liter
RRS - Risk Reduction Standard

Prepared by/date: RJB 2/26/18
Checked by/date: RMB 2/27/18

Figures



Document Path: G:\AGL_Augusta\mxds\Augusta_23rd_Semi_Annual_CAER_Report\Site_Location.mxd

Atlanta Gas Light Company
Former Manufactured Gas Plant
23rd Semiannual Corrective Action Effectiveness Report - January 2018 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

Site Location Map

Prepared by/Date: RD - 5/23/2018	wood.	Figure: 1-1
Checked By-Date: JMQ 5/23/2018		
Project Number: 6122150235		

Legend

- Monitoring Well - Alluvium
- Monitoring Well - Bedrock
- Monitoring Well - Galliard
- Monitoring Well - Saprolite
- Recovery Well - Bedrock
- Depth-Discrete Sampling Port - Alluvium
- Depth-Discrete Sampling Port - Galliard
- Depth-Discrete Sampling Port - Saprolite
- Depth-Discrete Sampling Port - Transition Zone
- Abandoned Depth-Discrete Sampling Port
- Abandoned Monitoring Well (August/September 2015)
- Abandoned Recovery Well (August/September 2015)
- Abandoned Monitoring Well (October 2017)
- Abandoned Recovery Well (October 2017)
- Monitoring Well - Bedrock (Destroyed)
- Site Parcel
- ISCO (In Situ Chemical Oxidation) Area
- ISS (In-Situ Solidification) Area

N

MW-319
MW-408S
MW-408DR
MW-320
MW-318
MW-317
MW-315
MW-607
MW-513BR
MW-603
MW-603SAP
MW-325
9th Street
Fenwick Street
MW-501S
MW-404DR
MW-306SAP
MW-306S
MW-306BR
MW-306D
MW-306TZ
MW-502D
MW-512BR
Walton Way
MW-600
MW-511BR
8th Street
MW-323
MW-324
MW-321
MW-316
MW-24
MW-21
MW-503BR
MW-307D
MW-307SAP
MW-307TZ
MW-322
MW-307BR
MW-504BR
MW-310D
MW-310TZ
MW-310SAP
MW-402S
Northern Parcel
MW-310BR
MW-402D
Walton Way
MW-510BR
MW-211
MW-202DR
MW-313
MW-601
MW-509BR
Block E
MW-19
MW-308BR
MW-203
MW-205
D'Antignac Street
9th Street
Western Parcel
MW-213
MW-17
MW-604
MW-606
MW-401S
MW-214
Taylor Street
MW-22
MW-401SAP
MW-401D
MW-605
MW-311
King Street
MW-500BR
MW-12
MW-25
Southern Parcel
MW-206
MW-508BR
MW-207
MW-506BR
MW-05
MW-309D
MW-309SAP
MW-309BR
MW-309TZ
8th Street
MW-505D
MW-304
MW-303
MW-507BR
MW-602

Notes:
Grayed wells were abandoned in August/September 2015 (to accomodate the Georgia Power substation expansion) or October 2017 (to facilitate corrective action).

Depth-Discrete Sampling Port may contain up to four tubes within its well casing that are screened at four different depth intervals (Alluvium = S, Galliard = D, Saprolite = SAP, Transition = TZ)

0 225 450 Feet

Atlanta Gas Light Company
Former Manufactured Gas Plant
23rd Semiannual Corrective Action Effectiveness Report - January 2018 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

Monitoring Well Locations

Prepared by/Date: RD - 5/23/2018	wood.	Figure: 2-1
Checked by/Date: JMQ - 5/23/2018		
Project Number: 6122150235		

Document Path: G:\AGL_Augusta\mxds\Augusta_23rd_Semi_Annual_CAER_Report\Monitoring_Well_Locations_Jan2018.mxd

MW-408S
125.21*

MW-501S
125.25

MW-306S
124.31

MW-402S
124.83

MW-17
127.74

MW-05
126.90

9th Street
Fenwick Street
Walton Way
8th Street
D'Antignac Street
Taylor Street
King Street

Northern Parcel
Western Parcel
Southern Parcel

126
125
127

N

Legend

- Monitoring Well - Alluvium
- 127.74 Groundwater Elevation (Feet MSL)
- Groundwater Elevation Contour (feet MSL)
- Dashed where inferred
- Groundwater Flow Direction
- ISCO (In-Situ Chemical Oxidation) Area
- ISS (In-Situ Solidification) Area
- Site Parcel

Notes:
MW-306S is in a Depth Discrete Sampling Port (DDSP) well.
*MW-408S was not used for contouring

MSL - Mean Sea Level

NM - Not Measured

0 225 450 Feet

Atlanta Gas Light Company
Former Manufactured Gas Plant
23rd Semiannual Corrective Action Effectiveness Report - January 2018 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

Groundwater Elevation Map for the Alluvium January 22, 2018

Prepared by/Date: RD - 5/23/2018	
Checked by/Date: JMQ - 5/23/2018	
Project Number: 6122150235	wood.

Figure: 3-1

Document Path: G:\AGL_Augusta\mxds\Augusta_23rd_Semi_Annual_CAER_Report\GW_Alluvium.mxd

N

MW-408DR
125.35*

MW-607
124.46

MW-603
124.46

MW-404DR
125.30

MW-306D
123.61

MW-310D
125.23

MW-402D
124.85

MW-211
NM

MW-19
128.13

MW-24
122.91

MW-21
121.35

MW-203
123.35

MW-22
123.31

MW-12
123.28

MW-25
123.19

MW-206
123.42

MW-207
127.19

MW-309D
123.07

MW-304
122.67

MW-303
122.75

MW-505D
124.15

MW-602
122.45

124
125
123
122
126
127
128

9th Street
Fenwick Street
Walton Way
8th Street
D'Antignac Street
King Street
Taylor Street

Northern Parcel
Western Parcel
Southern Parcel

Legend

- Galliard Monitoring Well
- 123.31 Groundwater Elevation (Feet MSL)
- Groundwater Elevation Contour (feet MSL)
- Dashed where inferred
- Groundwater Flow Direction
- ISCO (In-Situ Chemical Oxidation) Area
- ISS (In-Situ Solidification) Area
- Site Parcel

Notes:

MW-306D, MW-309D and MW-310D are in Depth Discrete Sampling Port (DDSP) wells.

* - MW-408DR was not used for contouring

MSL - Mean Sea Level

NM - Not Measured

0 225 450 Feet

Document Path: G:\AGL_Augusta\mxds\Augusta_23rd_Semi_Annual_CAER_Report\GW_Galliard.mxd

Atlanta Gas Light Company
Former Manufactured Gas Plant
23rd Semiannual Corrective Action Effectiveness Report - January 2018 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

Groundwater Elevation Map for the Galliard
January 22, 2018

Prepared by/Date: RD - 5/23/2018	
Checked by/Date: JMQ - 5/23/2018	
Project Number: 6122150235	wood.

Figure:
3-2

N

MW-317
121.95

MW-306SAP
124.01

MW-310SAP
125.43

MW-214
123.03

MW-311
123.21

MW-309SAP
124.02*

Northern Parcel

Western Parcel

Southern Parcel

9th Street

Fenwick Street

8th Street

Walton Way

D'Antignac Street

Taylor Street

King Street

122

123

124

125

126

Legend

- Saprolite Monitoring Well
- 123.21 Groundwater Elevation (Feet MSL)
- Groundwater Elevation Contour (feet MSL)
- Dashed where inferred
- Groundwater Flow Direction
- ISCO (In-Situ Chemical Oxidation) Area
- ISS (In-Situ Solidification) Area
- Site Parcel

Notes:
MW-306SAP, MW-309SAP and MW-310SAP are in Depth Discrete Sampling Port (DDSP) wells.

* - MW-309SAP not used in contouring

MSL - Mean Sea Level

0 225 450 Feet

Document Path: G:\AGL_Augusta\mxds\Augusta_23rd_Semi_Annual_CAER_Report\GW_Saprolite.mxd

Atlanta Gas Light Company
Former Manufactured Gas Plant
23rd Semiannual Corrective Action Effectiveness Report - January 2018 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

Groundwater Elevation Map for the Saprolite
January 22, 2018

Prepared by/Date: RD - 5/23/2018	
Checked by/Date: JMQ - 5/23/2018	wood.
Project Number: 6122150235	Figure: 3-3

N

MW-319
123.66

MW-320
123.03

MW-318
122.96

MW-315
123.97

MW-513BR
123.18

MW-325
121.71

0.00198

9th Street

Fenwick Street

MW-306BR
123.48

MW-306TZ
123.56

Walton Way

8th Street

MW-310TZ
124.13

MW-310BR
123.87

Northern Parcel

0.00121

MW-313
122.42

Walton Way

D'Antignac Street

Western Parcel

9th Street

MW-500BR
123.60

Taylor Street

Southern Parcel

MW-508BR
123.10

King Street

MW-309BR
122.00

MW-309TZ
124.23

MW-507BR
123.04

8th Street

Legend

- Monitoring Well - Bedrock and Transition Zone
- 124.23 Groundwater Elevation (Feet MSL)
- 0.00121 Hydraulic Gradient
- Direction of Hydraulic Potential as Calculated by Three-Point Problems
- ISCO (In-Situ Chemical Oxidation) Area
- ISS (In-Situ Solidification) Area
- Site Parcel

Notes:

MW-306TZ, MW-309TZ and MW-310TZ are in Depth Discrete Sampling Port (DDSP) wells.

MSL - Mean Sea Level

NM - Not Measured

0 225 450 Feet

Atlanta Gas Light Company
Former Manufactured Gas Plant
23rd Semiannual Corrective Action Effectiveness Report - January 2018 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

Hydraulic Potential Map for the Bedrock and Transition Wells - January 22, 2018

Prepared by/Date: RD - 5/23/2018	
Checked by/Date: JMQ - 5/23/2018	
Project Number: 6122150235	wood.

Figure: 3-4

Document Path: G:\AGL_Augusta\mxds\Augusta_23rd_Semi_Annual_CAER_Report\Hydraulic_Potential_BR_TZ.mxd

N

MW-408S

MW-408S	1/25/2018
Inorganics, mg/L	
Arsenic	0.0651

MW-501S NE

MW-306S NS

MW-402S NE

MW-17 NS

MW-401S NE

MW-05 NE

Northern Parcel

Western Parcel

Southern Parcel

9th Street

Fenwick Street

Walton Way

8th Street

D'Antignac Street

Taylor Street

King Street

Legend

- Monitoring Well - Alluvium
- MW in Depth Discrete Sampling Port
- ISCO (In-Situ Chemical Oxidation) Area
- ISS (In-Situ Solidification) Area
- Site Parcel
- NE — No Type 1 RRS Exceedances
- NS — Not Sampled

Notes:
mg/L = milligrams per liter
DUP = Field Duplicate
RRS = Risk Reduction Standard

MW-306S is in a Depth Discrete Sampling Port (DDSP) Well.

Data Qualifier Defintions:
J = Detected, estimated due to QC criteria

0 225 450 Feet

Atlanta Gas Light Company
Former Manufactured Gas Plant
23rd Semiannual Corrective Action Effectiveness Report - January 2018 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

Type 1 RRS Exceedances for the Alluvium Wells January 2018

Prepared by/Date: RD - 5/23/2018	wood.	Figure: 3-5
Checked by/Date: JMQ - 5/23/2018		
Project Number: 6122150235		

Document Path: G:\AGL_Augusta\mxds\Augusta_23rd_Semi_Annual_CAER_Report\RRS_Exceedances_Alluvium.mxd

Legend

- Monitoring Well - Galliard
- MW in Depth Discrete Sampling Port
- Site Parcel
- ISCO (In Situ Chemical Oxidation) Area
- ISS (In-Situ Solidification) Area
- NE No Type 1 RRS Exceedances
- NS Not Sampled
- DNAPL - Dense Non-Aqueous Phase Liquid

N

MW-408DR NE
MW-607 NS
MW-603 DNAPL/NS
MW-404DR NE
MW-306D NE
MW-402D NE
MW-310D NS
MW-211 NS
MW-19 NE
MW-203 NE
MW-22 NE
MW-12
MW-25 NS
MW-207 NE
MW-206 NE
MW-309D NS
MW-505D
MW-304
MW-303 NE
MW-602 NE
MW-24 NS
MW-21

9th Street
Fenwick Street
Walton Way
8th Street
D'Antignac Street
Taylor Street
King Street

Northern Parcel
Western Parcel
Southern Parcel

MW-21	1/25/2018
VOCs, ug/L	
Trichloroethene	8.3

MW-12	1/23/2018
SVOCs, ug/L	
Naphthalene	5500 (6500 DUP)
Phenanthrene	13 (14 DUP)
VOCs, ug/L	
Benzene	11000 (11000 DUP)
Ethylbenzene	2400 (2400 DUP)

MW-304	1/23/2018
SVOCs, ug/L	
Naphthalene	220
VOCs, ug/L	
Benzene	300

MW-505D	1/23/2018
SVOCs, ug/L	
Naphthalene	130

Notes:
µg/L - Micrograms/Liter
mg/L = milligrams per liter
DUP = Field Duplicate; both parent and duplicate values are shown
RRS = Risk Reduction Standard

MW-306D, MW-309D, and MW-310D are in Depth Discrete Sampling Port wells.

Data Qualifier Defintions:
J = Detected, estimated due to QC criteria

0 225 450 Feet

Atlanta Gas Light Company
Former Manufactured Gas Plant
23rd Semiannual Corrective Action Effectiveness Report - January 2018 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

Type 1 RRS Exceedances for the Galliard Formation Wells January 2018

Prepared by/Date: RD - 5/23/2018	wood.	Figure: 3-6
Checked by/Date: JMQ - 5/23/2018		
Project Number: 6122150235		

Document Path: G:\AGL_Augusta\mxds\Augusta_23rd_Semi_Annual_CAER_Report\RRS_Exceedances_Galliard.mxd

N

MW-317
NS

MW-306SAP	1/23/2018
Inorganics, mg/L	
Nickel	0.396

MW-306SAP

MW-310SAP	1/24/2018
Inorganics, mg/L	
Nickel	0.431

MW-310SAP

MW-311	1/24/2018
Inorganics, mg/L	
Cadmium	0.0423

MW-311

MW-214
NE

MW-309SAP
NS

Fenwick Street
9th Street
Walton Way
8th Street
D'Antignac Street
Taylor Street
King Street

Northern Parcel
Western Parcel
Southern Parcel

Legend

- Monitoring Well - Saprolite
- MW in Depth Discrete Sampling Port
- Site Parcel
- ISCO (In Situ Chemical Oxidation) Area
- ISS (In-Situ Solidification) Area
- NE No Type 1 RRS Exceedances
- NS Not Sampled

Notes:
µg/L - Micrograms/Liter
mg/L = milligrams per liter
DUP = Field Duplicate; both parent and duplicate values are shown
RRS = Risk Reduction Standard

MW-306 SAP, MW-309 SAP and MW-310 SAP are in Depth Discrete Sampling Port (DDSP) wells.

Data Qualifier Defintions:
J = Detected, estimated due to QC criteria

0 225 450 Feet

Atlanta Gas Light Company
Former Manufactured Gas Plant
23rd Semiannual Corrective Action Effectiveness Report - January 2018 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

Type 1 RRS Exceedances for the Saprolite Wells January 2018

Prepared by/Date: RD - 5/23/2018	
Checked by/Date: JMQ - 5/23/2018	
Project Number: 6122150235	wood.

Figure: 3-7

Document Path: G:\AGL_Augusta\mxds\Augusta_23rd_Semi_Annual_CAER_Report\RRS_Exceedances_Saprolite.mxd

Legend

- Monitoring Well - Bedrock
- Monitoring Well - Bedrock (destroyed)
- Site Parcel
- ISCO (In Situ Chemical Oxidation) Area
- ISS (In-Situ Solidification) Area
- NE No Type 1 RRS Exceedances
- NS Not Sampled

N

MW-319 NE

MW-320 NE

MW-318	1/24/2018
VOCs, ug/L	
Benzene	59

MW-318

MW-315 NE

9th Street

MW-513BR NE

MW-325 NE

Fenwick Street

MW-306BR	1/23/2018
SVOCs, ug/L	
Naphthalene	330 (360 DUP)

MW-306TZ	1/23/2018
SVOCs, ug/L	
Naphthalene	350

MW-306BR

MW-306TZ

Walton Way

8th Street

MW-310TZ NS

MW-310BR NE

Northern Parcel

Walton Way

MW-313 NE

D'Antignac Street

9th Street

MW-500BR	1/25/2018
SVOCs, ug/L	
Naphthalene	3900
Phenanthrene	17
VOCs, ug/L	
Benzene	17000
Ethylbenzene	1800

Western Parcel

Taylor Street

MW-500BR

Southern Parcel

King Street

MW-508BR NE

MW-506BR NS*

MW-309TZ NS

MW-309BR NE

8th Street

MW-507BR NE

Notes:
µg/L = micrograms per liter
mg/L = milligrams per liter
DUP = Field Duplicate; both parent and duplicate values are shown
RRS = Risk Reduction Standard

MW-306TZ, MW-309TZ and MW-310TZ are in Depth Discrete Sampling Port (DDSP) wells.

MW-506BR was destroyed by the City.

Data Qualifier Defintions:
J = Detected, estimated due to QC criteria

0 225 450 Feet

Atlanta Gas Light Company
Former Manufactured Gas Plant
23rd Semiannual Corrective Action Effectiveness Report - January 2018 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

Type 1 RRS Exceedances for Bedrock and Transition Wells January 2018

Prepared by/Date RD - 5/23/2018	wood.	Figure: 3-8
Checked by/Date: JMQ - 5/23/2018		
Project Number: 6122150235		

Document Path: G:\AGL_Augusta\mxds\Augusta_23rd_Semi_Annual_CAER_Report\RRS_Exceedances_Bedrock_and_Transition_Zone.mxd

N

MW-408DR
<5.0
<0.5

MW-603
DNAPL/NS

MW-404DR
<5.0
<0.5

MW-306D
<5.0
<0.5

MW-402D
<5.0
<0.5

MW-21
<5.0
<0.5

Northern Parcel

Western Parcel

MW-19
<5.0
<0.5

MW-203
<5.0
<0.5

MW-22
<5.0
<0.5

MW-12
11000
6500 (DUP)

Southern Parcel

MW-206
<5.0
<0.5

MW-207
<5.0
<0.5

MW-505D
<5.0
130

MW-304
300
220

MW-303
<5.0
<0.5

MW-602
<5.0
<0.5

9th Street
Fenwick Street
Walton Way
8th Street
D'Antignac Street
King Street
Taylor Street

Legend

- Monitoring Well - Galliard
- Benzene Isoconcentration Contour (µg/L - Dashed Where Inferred)
- Naphthalene Isoconcentration Contour (µg/L - Dashed Where Inferred)
- Site Parcel
- ISCO (In Situ Chemical Oxidation) Area
- ISS (In-Situ Solidification) Area
- 300 Benzene Concentration (µg/L)
- 220 Napthalene Concentration (µg/L)
- NS Not Sampled
- DNAPL Dense Non-Aqueous Phase Liquid Present
- (DUP) Duplicate Results

Notes:
MW-306D, MW-309D, and MW-310D are in Depth Discrete Sampling Port (DDSP) wells

0 225 450 Feet

Atlanta Gas Light Company
Former Manufactured Gas Plant
23rd Semiannual Corrective Action Effectiveness Report - January 2018 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

Benzene and Naphthalene Isoconcentration Map for the Galliard Formation - January 2018

Prepared by/Date: RD - 5/23/2018
Checked by/Date: JMQ - 5/23/2018
Project Number: 6122150235

wood.

Figure: 3-9

Document Path: G:\AGL_Augusta\mxds\Augusta_23rd_Semi_Annual_CAER_Report\Benz_Naphthalene_Galliard.mxd

N

MW-319
<5.0
<0.5

MW-320
<5.0
<0.5

MW-318
59
<0.5

MW-315
<5.0
<0.5

MW-513BR
<5.0
<0.5

MW-325
<5.0
<0.5

Fenwick Street

9th Street

Walton Way

MW-306BR
<5.0
360 (DUP)

MW-306TZ
<5.0
350

8th Street

MW-310BR
<5.0
<0.5

MW-313
<5.0
<0.5

Walton Way

D'Antignac Street

9th Street

MW-500BR
17000
3900

Taylor Street

MW-508BR
<5.0
<0.5

King Street

8th Street

MW-309BR
<5.0
<0.5

MW-507BR
<5.0
<0.5

20
100
5
100
20
1000
1000
10000

Legend

- Monitoring Well - Bedrock and Transition Zone
- Benzene Isoconcentration Contour (µg/L)
- Naphthalene Isoconcentration Contour (µg/L)
- Site Parcel
- ISS (In-Situ Solidification) Area
- ISCO (In Situ Chemical Oxidation) Area
- 17000 Benzene Concentration (µg/L)
- 3900 Napthalene Concentration (µg/L)
- NS Not Sampled
- (DUP) Duplicate Result

Notes:
MW-306TZ, MW-309TZ, and MW-310TZ are in Depth Discrete Sampling Port (DDSP) wells

MW-506BR was destroyed by the city

0 225 450 Feet

Atlanta Gas Light Company
Former Manufactured Gas Plant
23rd Semiannual Corrective Action Effectiveness Report - January 2018 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

Benzene and Naphthalene Isoconcentration Map for the Bedrock Formation and Transition Wells - January 2018

Prepared by/Date: RD - 5/23/2018	wood.	Figure: 3-10
Checked by/Date: JMQ - 5/23/2018		
Project Number: 6122150235		

Document Path: G:\AGL_Augusta\mxds\Augusta_23rd_Semi_Annual_CAER_Report\Benz_Napthalene_BR_and_TZ.mxd

APPENDIX A

GROUNDWATER SAMPLING LOG SHEETS

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: __Standard __ Compliance __Background __Extraction
WELL ID: MW-5-0118
WELL MATERIAL: PVC
SAMPLE METHOD: peristaltic Pump

Product In Well: Yes / (No): _____(ft)

WELL DIAMETER: 2"
DUP./REP. OF: _____
DEPTH TO WATER: 5.16 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 19.25
Top of Screened interval (btoc): _____
WATER COLUMN HEIGHT: 14.09
Screen length: _____
PURGE VOLUME: _____
Tubing/Pump Intake Depth 16.0'
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
Arrived at: 0900
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
Initial PID _____
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
Bailing PID = _____
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 0930	.25	3.21	-28.0	6.09	0.716	18.09	41.9	200 ( )	5.25
0935	.50	0.27	-49.5	6.17	0.722	18.83	38.2	200	5.25
0940	.75	0.23	-49.8	6.18	0.721	18.80	39.8	200	5.25
0945	1.00	0.23	-61.8	6.14	0.721	18.16	31.9	200	5.25
0950	1.25	0.22	-64.0	6.16	0.721	19.27	28.3	200	5.25
0955	1.50	0.14	-65.9	6.15	0.719	19.25	24.3	200	5.25
1000	1.75	0.18	-70.1	6.18	0.715	19.22	17.9	200	5.25
1005	2.00	0.14	-78.4	6.18	0.714	19.38	14.3	200	5.25
1010	2.25	0.22	-83.6	6.16	0.713	19.53	12.3	200	5.25
1015	2.50	0.19	-88.9	6.13	0.712	19.83	11.5	200	5.25
1020	2.75	0.22	-91.1	6.13	0.712	19.87	~~6~~ 8.84	200	5.25
1022	Sample	time	MW-5-0118						

NOTES:

SAMPLE DATE: 1-23-18
SAMPLE TIME: 1022

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION			
WEATHER:	Cloudy cool Windy		
SHIPPED VIA:	Delivered/Shipped to AES laboratory		
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340		
SAMPLER:	Mark Andrews	OBSERVER:	

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: __Standard __ Compliance __Background __Extraction
WELL ID: MW-12-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic Pump
DUP./REP. OF: DUP-1-0118

Top of Screened interval (btoc):_____
Screen length:_____
Tubing/Pump Intake Depth ~20.0
Arrived at: 1433
Initial PID _____
Bailing PID = _____

Product In Well: Yes / No: NO (ft)
WELL DIAMETER: 2"
DEPTH TO WATER: 8.01 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 24.98
WATER COLUMN HEIGHT: 16.97
PURGE VOLUME:_____
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1442	.25	0.65	-87.4	5.66	0.235	21.76	9.69	200 ( )	8.05
1447	.50	0.33	-84.5	5.61	0.232	21.61	4.52	200	8.07
1452	.75	0.32	-73.1	5.53	0.230	21.75	3.95	200	8.07
1457	1.00	0.22	-71.6	5.46	0.229	21.87	4.28	200	8.07
1502	1.25	0.15	-65.0	5.41	0.236	21.65	4.03	200	8.07
1507	1.50	0.11	-67.4	5.40	0.238	21.62	3.91	200	8.07
1512	1.75	0.12	-67.5	5.40	0.239	21.68	2.26	200	8.07
1514	Sample	time	MW-12-0118						

NOTES: water has strong odor. DUP-1-0118 collected at this location
DUP-1-0118 Sample time 1200

SAMPLE DATE: 1-23-18
SAMPLE TIME: 1514

CONTAINER SIZE/TYPE	NO.	Dup	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	2	HCL	8260	VOC list
1 L Amber	2	2	None	8270C SIM	PAHs
500 ml poly	1	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:		
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Mark Andrews		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: ✓Standard __Compliance __Background __Extraction
WELL ID: MW-19 + Dup-03-0118
WELL MATERIAL: PVC
SAMPLE METHOD: PERISTALTIC
DUP./REP. OF: DUP-03-0118

Top of Screened interval (btoc): 13.4'
Screen length: 5' (assumed)
Tubing/Pump Intake Depth 19'
Arrived at: 13:00
Initial PID N/A
Bailing PID = N/A

Product In Well: Yes / (No) _____(ft)

WELL DIAMETER: 2" on 1-25-18
DEPTH TO WATER: 12.42' GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 19.40'
WATER COLUMN HEIGHT: 6.98' x 0.163 = 1.14 gal x 3 =
PURGE VOLUME: 3.4 gal.

[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

13:20 Begin purging. TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	~0.3gal/5min. ≈300 ml/min. Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 13:25	0.2	3.00	46.1	6.51	0.471	19.02	12.4	150 ( )	13.16'
13:30	0.4	2.22	8.0	6.45	0.471	18.79	10.5	150 ↑	13.33
13:35	0.6	1.93	0.1	6.46	0.471	18.87	9.12	~~150~~ 200	13.50'
13:40	~~0.8~~ 0.9	1.78	-3.8	6.45	0.472	19.24	8.11	200	13.64'
13:45	~~1.0~~ 1.2	1.52	-6.6	6.43	0.474	19.40	6.77	200	13.73'
13:50	1.5	1.20	-8.1	6.41	0.476	19.24	5.76	200	13.77'
13:55	1.8	0.96	-8.3	6.42	0.476	19.24	5.05	200	13.78'
14:00	2.1	0.84	-8.7	6.40	0.475	19.37	3.90	200	13.78'
14:05	2.4	0.77	-9.1	6.40	0.474	19.54	3.28	200	13.78'
14:10	2.7	0.73	-10.0	6.40	0.474	19.60	2.77	200	13.78'
14:15	3.0	0.69	-11.0	6.38	0.472	19.65	2.19	200	13.78'

NOTES: ↑ = increased flow rate.
Also collected (Dup-03-0118).
14:48 Complete Sample Collection

SAMPLE DATE: 1-25-2018
SAMPLE TIME: 14:17

CONTAINER SIZE/TYPE	NO. (Dup-03-0118)	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	1 HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	2 HCL	8260	VOC list
1 L Amber	2	2 None	8270C SIM	PAHs
500 ml poly	1	1 NaOH	9014	CN

GENERAL INFORMATION			
WEATHER:	Clear, Sunny, 55°F		
SHIPPED VIA:	Delivered/Shipped to AES laboratory		
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340		
SAMPLER:	Terrell Parker	OBSERVER:	

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: __Standard __ Compliance __Background __Extraction
WELL ID: MW-21-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic pump

Product In Well: Yes / No: _____(ft)

DUP./REP. OF: 1

WELL DIAMETER: 2"
DEPTH TO WATER: 7.35 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 28.47
WATER COLUMN HEIGHT: 21.12

Top of Screened interval (btoc): _____
Screen length: _____
Tubing/Pump Intake Depth 25.0
Arrived at: 1200
Initial PID _____
Bailing PID = _____

PURGE VOLUME: _____
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1215	.25	4.18	176.4	6.90	0.312	20.89	3.33	200 ( )	7.38
1220	.50	3.88	151.9	6.66	0.311	21.29	2.92	200	7.38
1225	.75	3.97	128.6	6.60	0308	21.73	2.05	200	7.38
1230	1.00	3.87	110.2	6.55	0.306	21.68	3.65	200	7.38
1235	1.25	3.75	105.3	6.55	0.307	21.88	1.90	200	7.38
1240	1.50	0.48	87.5	6.37	0.627	21.91	0.63	200	7.38
1245	1.75	0.43	86.1	6.36	0.630	21.87	0.48	200	7.38
1250	2.00	0.39	84.2	6.36	0.631	22.04	0.49	200	7.38
1255	2.25	0.37	83.4	6.36	0.629	22.17	1.75	200	7.38
1257	Sample time		MW-21-0118						

NOTES:

SAMPLE DATE: 1-25-18
SAMPLE TIME: 1257

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Sunny Clear Cold	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Mark A.		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: __Standard __ Compliance __Background __Extraction
WELL ID: MW-22-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic Pump

Product In Well: Yes / (No) _____(ft)

WELL DIAMETER: 2"
DUP./REP. OF: _____
DEPTH TO WATER: 6.35 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 22.30
Top of Screened interval (btoc): _____
WATER COLUMN HEIGHT: 15.95
Screen length: _____
PURGE VOLUME: _____
Tubing/Pump Intake Depth 20.0'
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
Arrived at: 1150
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
Initial PID _____
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
Bailing PID = _____
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1205	.25	3.10	90.4	6.50	0.233	19.25	13.5	200 ( )	6.53
1210	.50	1.81	94.4	6.31	0.221	19.59	8.55	200	6.60
1215	.75	1.67	96.8	6.28	0.222	19.73	7.86	200	6.60
1220	1.00	1.46	99.6	6.25	0.219	20.25	5.02	200	6.60
1225	1.25	1.45	99.8	6.24	0.219	20.08	4.32	200	6.60
1230	1.50	1.41	101.1	6.23	0.218	20.08	3.59	200	6.60
1235	1.75	1.41	102.0	6.23	0.219	19.90	2.93	200	6.60
1237	Sample	time	MW-22-0118						

NOTES:

SAMPLE DATE: 1-24-18
SAMPLE TIME: 1237

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Sunny Clear cold	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Mark A.		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: __Standard __ Compliance __Background __Extraction
WELL ID: MW-203-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic Pump

Product In Well: Yes / (No:) _____(ft)

WELL DIAMETER: 2"
DUP./REP. OF: _____
DEPTH TO WATER: 7.55 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 26.55
Top of Screened Interval (btoc): _____
WATER COLUMN HEIGHT: 19.00
Screen length: _____
PURGE VOLUME: _____
Tubing/Pump Intake Depth 24'
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
Arrived at: 0720
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
Initial PID _____
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
Bailing PID = _____
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 0945	.25	6.91	200.7	6.23	0.450	15.62	6.73	200 ( )	7.66
0950	.50	3.99	192.3	6.38	0.454	16.60	6.81	200	7.60
0955	.75	3.19	187.8	6.39	0.450	18.32	2.34	200	7.60
1000	1.00	3.01	187.4	6.39	0.451	18.37	2.52	200	7.60
1005	1.25	2.94	185.6	6.38	0.453	18.20	1.71	200	7.60
1010	1.50	2.97	185.4	6.38	0.455	18.04	1.67	200	7.60
1012	Sample time	MW-203-0118							

NOTES:

SAMPLE DATE: 1-25-18
SAMPLE TIME: 1012

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION			
WEATHER:	Sunny Clear Cold		
SHIPPED VIA:	Delivered/Shipped to AES laboratory		
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340		
SAMPLER: Mark A.		OBSERVER:	

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: __Standard __ Compliance __Background __Extraction
WELL ID: MW-206-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic pump

Product In Well: Yes / (No): _____(ft)

WELL DIAMETER: 2"
DUP./REP. OF: _____
DEPTH TO WATER: 6.66 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 28.50
Top of Screened interval (btoc): _____
WATER COLUMN HEIGHT: 21.84
Screen length: _____
PURGE VOLUME: _____
Tubing/Pump Intake Depth ~25
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
Arrived at: 0959
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
Initial PID _____
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
Bailing PID = _____
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1015	.25	4.31	150.5	7.30	0.715	18.38	5.69	200 ( )	6.96
1020	.50	5.04	144.3	7.29	0.718	18.91	5.18	200	7.14
1025	.75	4.84	131.2	7.25	0.727	18.60	7.40	200	7.20
1030	1.00	2.90	100.2	6.90	0.715	19.12	5.33	200	7.23
1035	1.25	1.88	-46.5	6.89	0.715	19.07	5.39	200	7.28
1040	1.50	1.04	-50.7	6.81	0.689	19.13	6.41	200	7.27
1045	1.75	1.01	-52.8	6.81	0.685	19.07	3.51	200	7.27
1050	2.00	0.99	-52.3	6.80	0.683	18.97	4.57	200	7.27
1052	Sample	Hmo	MW-206-0118						

NOTES:

SAMPLE DATE: 1-24-16
SAMPLE TIME: 1052

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Sunny Clear, Cold	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Mark A.		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: __Standard __ Compliance __Background __Extraction
WELL ID: MW-207-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic

Product In Well: Yes / (No) _____(ft)

WELL DIAMETER: 2"
DUP./REP. OF: _____
DEPTH TO WATER: 5.43 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 25.40
Top of Screened interval (btoc): _____
WATER COLUMN HEIGHT: 19.97
Screen length: _____
PURGE VOLUME: _____
Tubing/Pump Intake Depth 20.0'
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
Arrived at: 1104
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
Initial PID _____
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
Bailing PID = _____
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1115	.25	0.41	19.5	5.58	0.368	20.48	41.5	200 ( )	6.60
1120	.50	0.46	6.0	5.56	0.382	20.35	37.4	200	6.60
1125	.75	0.27	-5.8	5.50	0.445	20.57	26.4	200	6.60
1130	1.00	0.18	-21.2	5.48	0.481	20.94	19.7	200	6.60
1135	1.25	0.16	-21.9	5.46	0.481	20.96	17.9	200	6.60
1140	1.50	0.13	-30.0	5.47	0.502	21.12	13.9	200	6.60
1145	1.75	0.13	-30.8	5.47	0.504	21.06	10.5	200	6.60
1150	2.00	0.13	-32.3	5.46	0.506	21.00	8.88	200	6.60
1152	Sample	time	1152	MW-207-0118					

NOTES:

SAMPLE DATE: 1-23-18
SAMPLE TIME: 1152

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION			
WEATHER:	Clear windy cool		
SHIPPED VIA:	Delivered/Shipped to AES laboratory		
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340		
SAMPLER:	Mark Andrews	OBSERVER:	

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: __Standard __ Compliance __Background __Extraction
WELL ID: MW-214-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic Pump

DUP./REP. OF:_____

Top of Screened interval (btoc):_____
Screen length:_____
Tubing/Pump Intake Depth 55'
Arrived at: 1302
Initial PID _____
Bailing PID = _____

Product In Well: Yes / No:_____(ft)

WELL DIAMETER: 2"
DEPTH TO WATER: ~~6.80~~ 6.80 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 57.20
WATER COLUMN HEIGHT: 50.40
PURGE VOLUME:_____
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1320	.25	2.21	96.0	6.55	0.227	19.90	6.43	200 ( )	7.21
1325	.50	0.54	96.1	6.56	0.235	20.25	6.96	200	7.27
1330	.75	0.39	92.8	6.58	0.240	20.34	5.56	200	7.27
1335	1.00	0.25	54.1	6.61	0.251	20.39	4.81	200	7.27
1340	1.25	0.21	33.6	6.62	0.256	20.21	3.11	200	7.27
1345	1.50	0.17	-37.2	6.70	0.276	20.42	1.70	200	7.27
1350	1.75	0.15	-51.2	6.72	0.283	20.41	2.00	200	7.27
1355	2.00	0.16	-67.1	6.74	0.283	20.43	1.97	200	7.27
1400	2.25	0.14	-77.4	6.77	0.286	20.15	1.26	200	7.27
1405	2.50	0.15	-80.5	6.77	0.286	20.27	1.09	200	7.27
1410	2.75	0.13	-82.9	6.77	0.287	20.31	0.98	200	7.27
1412	Sample	time	MW-214-0118						

NOTES:

SAMPLE DATE: 1-24-18
SAMPLE TIME: 1412

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Sunny clear, cool	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Mark A.		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: ✓Standard __ Compliance __Background __Extraction
WELL ID: MW-303
WELL MATERIAL: PVC
SAMPLE METHOD: peristaltic
DUP./REP. OF: N/A

Top of Screened interval (btoc): 25.5-30.5
Screen length: 5'
Tubing/Pump Intake Depth 28'
Arrived at: 13:45
Initial PID N/A
Bailing PID = N/A

Product In Well: Yes / No: NO (ft)

WELL DIAMETER: 2" on 1-23-18
DEPTH TO WATER: 6.62' GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 30.75'
WATER COLUMN HEIGHT: 24.13' x 0.163 = 3.93 gal x 3
PURGE VOLUME: 11.8 gal if 3 well vol. Req.

[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

13:58 Begin purging TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	1-23-18 TURB. (NTU) [<10 NTU]	0.5 gal/5 min @ 400 ml/min. Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 14:05	0.6	0.63	-39.0	6.12	0.469	23.14	3.46	350 (↑)	6.71'
14:10	1.1	0.36	-45.9	6.08	0.469	23.16	1.18	400	6.71'
14:15	1.6	0.22	-50.3	6.08	0.469	23.20	0.72	400	6.71'
14:20	2.1	0.16	-52.6	6.07	0.469	22.92	0.65	400	6.71'
14:25	2.6	0.13	-54.2	6.08	0.468	23.31	0.68	400	6.71'
14:30	3.1	0.12	-55.1	6.08	0.468	23.18	0.36	400	6.71'

NOTES:

SAMPLE DATE: 1-23-2018
SAMPLE TIME: 14:35

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION			
WEATHER:	Clear, Sunny, Windy, 66°F		
SHIPPED VIA:	Delivered/Shipped to AES laboratory		
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340		
SAMPLER:	Terrell Parker	OBSERVER:	

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: ✓Standard __ Compliance __Background __Extraction
WELL ID: MW-304-0118
WELL MATERIAL: PVC
SAMPLE METHOD: peristaltic

DUP./REP. OF: N/A

Top of Screened interval (btoc): 31-36
Screen length: 5'
Tubing/Pump Intake Depth 34'
Arrived at: 10:20
Initial PID N/A
Bailing PID = N/A

Product In Well: Yes / No: NO (ft)

WELL DIAMETER: 2" → on 1-23-18
DEPTH TO WATER: 8.61' GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 36.50'
WATER COLUMN HEIGHT: 27.89 X 0.163 = 4.54gal x 3 =
PURGE VOLUME: 13.6 gal. if 3 vol. Req.
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

10:32 begin purging. TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	~0.5gal/5min. Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 10:38	0.5	1.25	-25.1	6.08	0.543	18.55	7.38	350 ( )	9.08
10:43	1.0	0.71	-34.4	6.08	0.543	18.50	4.02	350	9.08
10:48	1.5	0.37	-37.3	6.08	0.544	18.55	3.14	350	9.08
10:53	2.0	0.27	-38.2	6.07	0.544	18.58	2.63	350	9.08
10:58	2.5	0.23	-38.7	6.07	0.545	18.56	2.10	350	9.08
~~10~~ 11:03	3.0	0.20	-39.0	6.07	0.546	18.60	1.84	350	9.08
11:08	3.5	0.19	-39.0	6.07	0.546	18.56	1.23	350	9.08

NOTES:

SAMPLE DATE: 1-23-2018
SAMPLE TIME: 11:11 11:31 Complete Sample collection

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Partly cloudy, 63°F	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Terrell Harker		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: __Standard __ Compliance __Background __Extraction
WELL ID: MW-306D-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic pump

Product In Well: Yes / (No): _____(ft)

WELL DIAMETER: 0.5
DUP./REP. OF: _____
DEPTH TO WATER: 8.28 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 23.0
Top of Screened interval (btoc): _____
WATER COLUMN HEIGHT: 14.72
Screen length: _____
PURGE VOLUME: _____
Tubing/Pump Intake Depth 22.0
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
Arrived at: 1128
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
Initial PID _____
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
Bailing PID = _____
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1135	0	1.83	10.2	6.17	1.388	21.50	4.71	200 ( )	NA
1145	0.5	0.50	-1.7	6.10	1.401	21.59	1.56	200	
DUP 1150	0.75	0.37	-5.1	6.10	1.402	21.49	0.82	200	
1155	1.0	0.33	-6.9	6.09	1.403	21.47	0.31	200	
1200	1.25	0.30	-8.2	6.09	1.401	21.40	0.28	200	

NOTES:

SAMPLE DATE: 1/23/18
SAMPLE TIME: 1202

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Clear, Temp 64°F	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Daniel Howard		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: __Standard __Compliance __Background __Extraction
WELL ID: 30MW-306SAP-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic pump

Product In Well: Yes / (No): _____(ft)

DUP./REP. OF:_____

WELL DIAMETER: 0.5
DEPTH TO WATER: 7.91 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 24.60
WATER COLUMN HEIGHT: 16.69

Top of Screened interval (btoc):_____
Screen length:_____
Tubing/Pump Intake Depth 23.5
Arrived at: 0945
Initial PID _____
Bailing PID = _____

PURGE VOLUME:_____
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1005	0	2.31	37.2	6.05	1.440	19.68	24.7	100 ( )	NA
1015	0.25	1.83	36.2	6.00	1.455	19.98	18.4	100	
1020	0.375	2.28	37.7	6.02	1.464	20.07	11.8	100	
1025	0.5	3.46	39.4	6.05	1.465	19.97	9.01	100	
1030	0.625	3.64	39.5	6.08	1.468	19.91	7.83	100	
1035	0.75	3.41	37.4	6.07	1.453	19.93	4.67	100	

NOTES: well is dry after fill VOC, metals + CN will let well recharge and then fill PAHs bottles

SAMPLE DATE: 1/23/18
SAMPLE TIME: 1036

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Clear, Temp 63°F	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Daniel Howard		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: __Standard __ Compliance __Background __Extraction
WELL ID: MW-306 TZ-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic pump

Product In Well: Yes / (No): _____(ft)

WELL DIAMETER: 0.5
DUP./REP. OF: _____
DEPTH TO WATER: 8.37 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 22.12
Top of Screened interval (btoc): _____
WATER COLUMN HEIGHT: 13.75
Screen length: _____
PURGE VOLUME: _____
Tubing/Pump Intake Depth 21
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
Arrived at: 1230
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
Initial PID _____
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
Bailing PID = _____
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1240	0	1.66	49.2	6.66	0.774	21.43	0.65	200 ( )	NA
1250	0.5	0.77	-47.9	6.69	0.777	21.53	0.65	200	
1255	0.75	0.58	-58.8	6.69	0.771	21.53	1.02	200	
1300	1.0	0.48	-62.9	6.69	0.764	21.69	0.95	200	
1305	1.25	0.50	-64.2	6.69	0.759	21.58	0.60	200	
1310	1.50	0.40	-64.4	6.68	0.754	21.57	0.66	200	↓

NOTES:

SAMPLE DATE: 1/23/18
SAMPLE TIME: 1312

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Clear, Temp 64°F	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Daniel Howard		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: __Standard __ Compliance __Background __Extraction
WELL ID: MW-306BR-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic pump
DUP./REP. OF: DUP-2-0118
Time 1200
Top of Screened interval (btoc): _____
Screen length: _____
Tubing/Pump Intake Depth 74
Arrived at: 1420
Initial PID _____
Bailing PID = _____

Product In Well: Yes / No: _____(ft)
WELL DIAMETER: 4
DEPTH TO WATER: 8.33 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 79.2
WATER COLUMN HEIGHT: 70.87
PURGE VOLUME: _____
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1445	0	1.43	-116.0	7.19	0.567	21.75	26.4	200 ( )	8.30
1455	0.5	0.55	-121.8	7.10	0.565	21.75	6.68	200	8.30
1500	0.75	0.48	-122.8	7.07	0.563	21.70	4.86	200	8.30
1505	1.0	0.43	-123.4	7.05	0.563	21.31	2.83	200	8.30
1510	1.25	0.41	-123.6	7.04	0.561	21.41	2.90	200	8.30

NOTES: Collected DUP-2-0118 Time 1200
VOC, PAH, Total metals + Hg, CN
Water has petroleum oder

SAMPLE DATE: 1/23/18
SAMPLE TIME: 1512

CONTAINER SIZE/TYPE	NO.	Dup	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	2	HCL	8260	VOC list
1 L Amber	2	2	None	8270C SIM	PAHs
500 ml poly	1	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Clear, Temp 65°F	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Daniel Howard		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: ✓Standard __ Compliance __Background __Extraction
WELL ID: MW-309 BR-0118
WELL MATERIAL: PVC
SAMPLE METHOD: peristaltic w/ PE Tubing

Product In Well: Yes / No: NO (ft)
WELL DIAMETER: 4" on 1-23-18
DEPTH TO WATER: 7.50 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 109
WATER COLUMN HEIGHT: 101.5 x 0.653 = 66.3 gal x 3 =
PURGE VOLUME: 199 gal / 3 well vol. Req.

DUP./REP. OF: N/A

Top of Screened interval (btoc): 83.7 - 109
Screen length: 25.3'
Tubing/Pump Intake Depth 96
Arrived at: 14:57
Initial PID N/A
Bailing PID = N/A

[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

15:26 Begin purge TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	~0.5gal/5min. Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 15:33	0.6	0.38	-23.5	8.01	0.288	20.87	2.30	400 ( )	7.61'
15:43	1.6	0.18	-63.6	8.35	0.284	20.83	1.70	400	7.62'
15:53	2.7	0.11	-62.9	8.64	0.273	21.18	1.24	400	7.61'
15:58	3.2	0.10	-59.5	8.84	0.261	20.96	0.90	400	7.61'
16:03	3.7	0.09	-57.7	8.88	0.255	20.90	0.65	400	7.61'
16:08	4.2	0.08	-61.3	8.73	0.257	20.91	0.65	400	7.61'
16:13	4.7	0.07	-68.7	8.54	0.261	20.87	0.49	400	7.61'
16:18	5.2	0.08	-73.2	8.34	0.264	20.88	0.57	400	7.61'
16:23	5.7	0.07	-75.7	8.30	0.265	20.83	0.72	400	7.61'
16:28	6.2	0.07	-81.6	8.24	0.265	20.94	0.73	400	7.61'

NOTES: Had to weight end of tubing down w/ SS bolt & socket to get tubing to 96'. Drilled 5/32" hole in tubing about 6" above bolt/socket for water to enter.

SAMPLE DATE: 1-23-2018
SAMPLE TIME: 16:30

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION			
WEATHER:	Clear, Sunny, light breeze, 66°F		
SHIPPED VIA:	Delivered/Shipped to AES laboratory		
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340		
SAMPLER:	Terrell PARKER	OBSERVER:	

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: ✓Standard __ Compliance __Background __Extraction
WELL ID: MW-310SAP-0118
WELL MATERIAL: PVC
SAMPLE METHOD: peristaltic

DUP./REP. OF: N/A

Top of Screened interval (btoc): _____
Screen length: _____
Tubing/Pump Intake Depth 27'
Arrived at: 08:55
Initial PID N/A
Bailing PID = N/A

Product In Well: Yes / No: NO (ft)

WELL DIAMETER: ½" / on 1-24-18
DEPTH TO WATER: 13.81'
TOTAL DEPTH: 28.46'
WATER COLUMN HEIGHT: 14.65'
PURGE VOLUME: _____

GRAB (x) COMPOSITE ( )

[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

09:10 begin purging TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	~0.25gal/5min. Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 09:16	0.2	2.07	-11.2	6.92	0.418	17.63	4.30	150 ( )	(*)
09:21	0.4	0.93	-18.7	6.85	0.430	17.56	1.82	150	—
09:26	0.6	0.62	-21.0	7.08	0.436	17.54	0.90	150	—
09:31	0.8	0.45	-23.6	7.22	0.440	17.46	0.49	150	—
09:36	1.0	0.40	-25.5	7.18	0.441	17.66	0.36	150	—
09:41	1.2	0.39	-30.8	7.19	0.444	17.63	0.29	150	—
09:46	1.4	0.34	-33.2	7.20	0.445	17.83	0.25	150	—

NOTES: (*) Can't monitor water level because ID of MW310SAP is only ½".

SAMPLE DATE: 1-24-2018
SAMPLE TIME: 09:48

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Clear, Sunny, 39°F	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Terrell Parker		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: ✓Standard __ Compliance __Background __Extraction
WELL ID: MW-310 BR
WELL MATERIAL: PVC
SAMPLE METHOD: PERISTALTIC
DUP./REP. OF: N/A

Product In Well: Yes / No: NO (ft)
WELL DIAMETER: 4" on 1-24-2018
DEPTH TO WATER: 15.69' GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 89.31
WATER COLUMN HEIGHT: 73.62
PURGE VOLUME:

Top of Screened interval (btoc):
Screen length:
Tubing/Pump Intake Depth 84.0'
Arrived at:
Initial PID N/A
Bailing PID = N/A

[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

10:38 Begin Purging TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	no. 5gal/5min. Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 10:43	0.5	0.45	-13.7	6.55	0.634	19.64	4.67	350 ( )	15.83'
10:48	1.0	0.46	-22.9	6.55	0.634	19.69	2.78	350	15.84'
10:53	1.5	0.35	-32.3	6.52	0.613	19.55	3.91	350	15.86'
10:58	2.0	0.27	-35.2	6.51	0.575	19.58	2.40	350	15.87'
11:03	2.5	0.25	-38.7	6.53	0.540	19.56	1.69	350	15.88'
11:08	3.0	0.22	-40.9	6.54	0.485	19.49	1.56	350	15.88'
11:13	3.5	0.22	-41.4	6.56	0.444	19.63	1.41	350	15.88'
11:18	4.0	0.20	-43.6	6.57	0.410	19.69	2.12	350	15.88'
11:23	4.5	0.19	-43.7	6.57	0.396	19.74	1.42	350	15.88'
11:28	5.0	0.15	-46.0	6.59	0.381	19.73	1.53	350	15.88'
11:33	5.5	0.16	-47.4	6.61	0.364	19.70	1.59	350	15.88'
11:38	6.0	0.13	-50.4	6.66	0.355	19.74	1.37	350	15.88'
11:43	6.5	0.10	-55.1	6.73	0.356	19.84	1.01	350	15.88'

NOTES:

SAMPLE DATE: 1-24-2018
SAMPLE TIME: 11:45

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Clear, Sunny, 45°F	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Terrell Parker		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: __Standard __ Compliance __Background __Extraction
WELL ID: MW-311-0118
WELL MATERIAL: PVC
SAMPLE METHOD: peristaltic pump

Product In Well: Yes / No: NO (ft)

WELL DIAMETER: 2"
DUP./REP. OF:_____
DEPTH TO WATER: 6.93 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 22.60
Top of Screened interval (btoc):_____
WATER COLUMN HEIGHT: 15.67
Screen length:_____
PURGE VOLUME:_____
Tubing/Pump Intake Depth 31'
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
Arrived at: 0850
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
Initial PID _____
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
Bailing PID = _____
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 0908	.25	2.03	177.9	6.50	0.260	16.54	6.15	200 ( )	7.60
0913	.50	0.70	178.3	6.54	0.260	17.20	~~4.50~~ 5.41	200	8.50
0918	.75	0.60	176.7	6.54	0.255	17.71	4.35	200	10.11
0923	1.00	0.58	175.7	6.54	0.255	17.77	4.23	200	10.35
0928	1.25	0.60	172.5	6.54	0.257	17.77	6.77	200	10.57
0933	1.50	0.54	171.2	6.54	0.256	17.93	4.58	200	11.03
0935	Sample	time	MW-311-0118						

NOTES:

SAMPLE DATE: 1-24-14
SAMPLE TIME: 0935

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Clear Sunny cold	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Mark A.		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: __Standard __ Compliance __Background __Extraction
WELL ID: MW-313-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic Pump

DUP./REP. OF:_____

Top of Screened interval (btoc):_____
Screen length:_____
Tubing/Pump Intake Depth 75'
Arrived at: 1040
Initial PID _____
Bailing PID = _____

Product In Well: Yes / No: _____(ft)
WELL DIAMETER: 4"
DEPTH TO WATER: 6.68 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 82.52
WATER COLUMN HEIGHT: 75.84
PURGE VOLUME:_____
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1056	.25	4.43	210.4	10.05	0.193	18.64	12.7	200 ( )	6.70
TD 1101	.50	2.48	171.5	10.24	0.196	19.78	10.7	200	6.70
1106	.75	2.22	133.4	10.31	0.197	20.28	6.49	200	6.70
1111	1.00	2.16	109.6	10.34	0.198	20.37	5.42	200	6.70
1116	1.25	2.17	104.4	10.35	0.200	20.44	7.83	200	6.70
1121	1.50	2.15	99.6	10.36	0.200	20.43	4.21	200	6.70
1123	Sample	time	MW-313-0118						

NOTES:

SAMPLE DATE: 1-25-18
SAMPLE TIME: 1123

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION			
WEATHER:	Sunny Clear Cold		
SHIPPED VIA:	Delivered/Shipped to AES laboratory		
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340		
SAMPLER:	Mark A.	OBSERVER:	

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: ✓Standard __ Compliance __Background __Extraction
WELL ID: MW-315-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic pump

Product In Well: Yes / (No) _____(ft)

WELL DIAMETER: 4
DUP./REP. OF:_____
DEPTH TO WATER: 7.77 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 85.90
Top of Screened interval (btoc):_____
WATER COLUMN HEIGHT: 78.13
Screen length:_____
PURGE VOLUME:_____
Tubing/Pump Intake Depth 81
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
Arrived at: 1155
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
Initial PID _____
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
Bailing PID = _____
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1225	0	1.37	-72.6	6.92	0.567	21.58	10.0	200 ( )	7.87
1235	0.5	0.40	-79.8	6.73	0.570	21.32	4.38	200	7.87
1240	0.75	0.33	-75.8	6.69	0.569	21.30	3.80	200	7.87
1245	1.0	0.32	-76.8	6.68	0.570	21.02	3.77	200	7.87
1250	1.25	0.25	-77.1	6.67	0.569	21.31	3.88	200	7.87

NOTES:

SAMPLE DATE: 1/24/18
SAMPLE TIME: 1252

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Clear, Temp 53°F	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Daniel Howard		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: ✓Standard __ Compliance __Background __Extraction
WELL ID: MW-318-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic pump

Product In Well: Yes / (No) _____(ft)

WELL DIAMETER: 4
DUP./REP. OF:_____
DEPTH TO WATER: 7.79 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 87.30
Top of Screened interval (btoc):_____
WATER COLUMN HEIGHT: 79.51
Screen length:_____
PURGE VOLUME:_____
Tubing/Pump Intake Depth 82.5
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
Arrived at: 1335
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
Initial PID _____
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
Bailing PID = _____
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1405	0	0.94	-51.9	6.81	0.734	20.85	24.7	200 ( )	7.86
1415	0.5	0.52	-76.4	6.73	0.742	20.91	20.3	200	7.87
1425	1.0	0.29	-77.5	6.72	0.740	20.88	13.8	200	7.88
1430	1.25	0.25	-75.7	6.72	0.738	20.80	10.5	200	7.88
1435	1.50	0.22	-77.6	6.72	0.734	20.78	7.19	200	7.88
1440	1.75	0.21	-82.3	6.72	0.732	20.92	6.89	200	7.88

NOTES: Water has organic odor. After sampling ~~ft~~ tubing to bottom of well and pump 2 additional gal to remove silt & debris. lowered

SAMPLE DATE: 1/24/18
SAMPLE TIME: 1442

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	DH Clear, Temp 60°F	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Daniel Howard		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: __Standard __ Compliance __Background __Extraction
WELL ID: MW-319-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic pump

DUP./REP. OF: _____

Top of Screened interval (btoc): _____
Screen length: _____
Tubing/Pump Intake Depth 74.5
Arrived at: 0920
Initial PID _____
Bailing PID = _____

Product In Well: Yes / No 0 _____(ft)

WELL DIAMETER: 4
DEPTH TO WATER: 9.32 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 79.50
WATER COLUMN HEIGHT: 70.18
PURGE VOLUME: _____
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 0955	0	0.59	-111.9	6.99	0.459	19.27	16.0	200 ( )	9.55
1005	0.5	0.26	-148.9	7.06	0.457	19.76	15.0	200	9.56
1015	1.0	0.25	-144.8	7.12	0.456	19.15	6.42	200	9.56
1020	1.25	0.27	-149.7	7.14	0.456	19.14	5.27	200	9.57
1025	1.5	0.25	-150.4	7.16	0.456	19.42	4.35	200	9.57

NOTES:

SAMPLE DATE: 1/25/18
SAMPLE TIME: 1027

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Clear, Temp 45°F	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Daniel Howard		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: __Standard __ Compliance __Background __Extraction
WELL ID: MW-320-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic

Product In Well: Yes / (No:) _____(ft)

DUP./REP. OF: MW-320-0118MS/MSD

WELL DIAMETER: 4"
DEPTH TO WATER: 8.83 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 68.6
WATER COLUMN HEIGHT: 59.77

Top of Screened interval (btoc): _____
Screen length: _____
Tubing/Pump Intake Depth 63.0'
Arrived at: 1531
Initial PID _____
Bailing PID = _____

PURGE VOLUME: _____
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1540	.25	5.99	96.4	9.06	0.094	21.92	2.76	200( )	8.85
1545	.50	5.52	84.7	9.10	0.092	22.44	1.26	200	8.85
1550	.75	4.80	67.4	9.15	0.091	22.89	0.99	200	8.85
1555	1.00	4.87	65.4	9.16	0.091	22.93	0.76	200	8.85
1600	1.25	4.58	59.1	9.19	0.091	22.86	0.72	200	8.85
1605	1.50	4.64	56.3	9.19	0.091	22.90	0.72	200	8.85
1610	1.75	4.60	56.0	9.19	0.091	22.88	0.65	200	8.85
1612	Sample	then	MW-320-0118						

NOTES: MW-320-0118MS/MSD collected at this location

SAMPLE DATE: 1-25-18
SAMPLE TIME: 1612

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	x3	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	x6	HCL	8260	VOC list
1 L Amber	x6	None	8270C SIM	PAHs
500 ml poly	x3	NaOH	9014	CN

GENERAL INFORMATION			
WEATHER:	Sunny Clear, Cold		
SHIPPED VIA:	Delivered/Shipped to AES laboratory		
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340		
SAMPLER:	Mark A.	OBSERVER:	

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: __Standard __ Compliance __Background __Extraction
WELL ID: MW-325-0118
WELL MATERIAL: PVC
SAMPLE METHOD: peristaltic

Product In Well: Yes / No: _____(ft)

WELL DIAMETER: 4"
DUP./REP. OF: _____
DEPTH TO WATER: 9.83 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 105
Top of Screened interval (btoc): _____
WATER COLUMN HEIGHT: 95.17
Screen length: _____
PURGE VOLUME: _____
Tubing/Pump Intake Depth 100'
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
Arrived at: 1416
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
Initial PID _____
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
Bailing PID = _____
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1430	.25	2.00	147.1	7.81	0.225	22.34	46.2	200 ( )	9.95
1435	.50	0.61	115.7	7.94	0.215	23.01	15.1	200	10.30
1440	.75	0.41	102.2	7.98	0.213	22.90	6.84	200	10.80
1445	1.00	0.24	70.0	8.01	0.211	22.07	9.97	200	11.31
1450	1.25	0.23	67.6	8.00	0.211	22.08	5.58	200	11.47
1455	1.50	0.22	64.0	7.99	0.211	22.18	4.81	200	11.60
1457	Sample	time	MW-325-0118						

NOTES:

SAMPLE DATE: 1-25-18
SAMPLE TIME: 1457

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Sunny Clear, cold	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Mark A.		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: ✓Standard __ Compliance __Background __Extraction
WELL ID: MW-402S-0118
WELL MATERIAL: PVC
SAMPLE METHOD: peristaltic
DUP./REP. OF: N/A

Top of Screened interval (btoc): 14.5-19.5
Screen length: 5' (Assumed)
Tubing/Pump Intake Depth 17'
Arrived at: 13:05
Initial PID N/A
Bailing PID = N/A

Product In Well: Yes / No: NO (ft)

WELL DIAMETER: 2" on 1-24-18
DEPTH TO WATER: 12.13' GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 19.51
WATER COLUMN HEIGHT: 7.38' x 0.163 = 1.20 gal x 3 =
PURGE VOLUME: 3.60 gal if 3 well vol. req.

[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

13:19 Begin purging TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 13:24	0.5	1.42	18.3	6.01	0.614	21.03	7.59	400 ( )	12.16'
13:29	1.0	0.85	-18.4	6.10	0.613	20.97	2.95	400	12.16'
13:34	1.5	0.83	-22.7	6.11	0.614	21.00	2.47	400	12.16'
13:39	2.0	0.80	-27.7	6.12	0.613	20.98	1.83	400	12.16'
13:44	2.5	0.75	-30.3	6.12	0.612	20.93	1.08	400	12.16'
13:49	3.0	0.70	-32.2	6.12	0.613	20.94	0.84	400	12.16'

NOTES:

SAMPLE DATE: 01-24-2018
SAMPLE TIME: 13:50

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Clear, Sunny, light breeze, 56°F	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER:	Jerrell Parker	OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: ✓ Standard __ Compliance __Background __Extraction
WELL ID: MW-402 D-0118
WELL MATERIAL: PVC
SAMPLE METHOD: peristaltic
DUP./REP. OF: N/A

Top of Screened interval (btoc): 21.7
Screen length: 5' (Assumed)
Tubing/Pump Intake Depth 23.0'
Arrived at: 13:58
Initial PID N/A
Bailing PID = N/A

Product In Well: Yes / No: NO (ft)
WELL DIAMETER: 2" on 1-24-18
DEPTH TO WATER: 12.19' GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 26.72'
WATER COLUMN HEIGHT: 14.53' x 0.163 gal/ft = 2.37 gal x 3
PURGE VOLUME: 7.10 gal 3 well vol. Req.
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

14:16 Begin purging. TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 14:21	0.5	0.91	13.0	5.86	0.693	20.81	3.30	400 ( )	12.30'
14:26	1.0	0.44	-13.6	6.04	0.701	20.65	1.44	400	12.31'
14:31	1.5	0.32	-21.8	6.13	0.703	20.74	2.75	400	12.31'
14:36	2.0	0.29	-24.6	6.15	0.704	20.78	1.85	400	12.31'
14:41	2.5	0.23	-28.3	6.16	0.705	20.79	1.05	400	12.31'
14:46	3.0	0.19	-30.0	6.17	0.705	20.82	1.65	400	12.31'
14:51	3.5	0.17	-31.7	6.17	0.706	20.77	1.06	400	12.31'
14:56	4.0	0.15	-33.2	6.18	0.705	20.79	1.03	400	12.31'

NOTES:

SAMPLE DATE: 1-24-2018
SAMPLE TIME: 14157

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

(Burning brush somewhere)

GENERAL INFORMATION	
WEATHER:	Hazy, Smokey, light breeze out of west, 59°F
SHIPPED VIA:	Delivered/Shipped to AES laboratory
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340
SAMPLER:	OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: ✓Standard __ Compliance __Background __Extraction
WELL ID: MW-404DR
WELL MATERIAL: PVC
SAMPLE METHOD: PERISTALTIC

Product In Well: Yes / No: _____(ft)

DUP./REP. OF: N/A

WELL DIAMETER: 2"
DEPTH TO WATER: ~~21'~~ 8.16' MSL 1-25-18 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 21.75'
WATER COLUMN HEIGHT: 13.59' x 0.163 = 2.29 GAL x 3 =
PURGE VOLUME: 6.6 gal if 3 well vols. Req.

Top of Screened interval (btoc): 16.75'
Screen length: 5'
Tubing/Pump Intake Depth 21.25'
Arrived at: 10:36
Initial PID N/A
Bailing PID = N/A

[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

10:45 Begin purging. TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	~0.2 GAL/5 min. Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 10:50	0.2	5.15	47.1	6.49	0.533	17.24	5.29	150 ( )	9.32'
10:55	0.4	2.15	26.1	6.48	0.414	17.33	4.20	150	10.16'
11:00	0.6	2.10	4.1	6.38	0.334	17.61	4.55	150	10.98
11:05	0.8	2.13	-3.4	6.36	0.298	17.80	4.30	150	11.72'
11:10	1.0	1.92	-8.7	6.34	0.295	18.06	4.25	150	12.53'
11:15	1.2	1.86	-9.7	6.32	0.298	17.94	5.93	150	13.12'
11:20	1.4	1.75	-11.7	6.30	0.304	17.89	3.04	150	13.80'
11:25	1.6	1.67	-14.1	6.30	0.306	18.11	3.97	150	14.34'
11:30	1.8	1.63	-15.6	6.30	0.313	18.29	4.09	150	14.87'

NOTES:

SAMPLE DATE: 1-25-18
SAMPLE TIME: 11:32

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Clear, Sunny, light breeze from east, 48°F	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Terrell Parker.		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: ✓ Standard __ Compliance __Background __Extraction
WELL ID: MW-4085-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic pump

Product In Well: Yes / (No) _____(ft)

DUP./REP. OF:_____

WELL DIAMETER: 2
DEPTH TO WATER: 8.10 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 18.60
WATER COLUMN HEIGHT: 10.5

Top of Screened interval (btoc):_____
Screen length:_____
Tubing/Pump Intake Depth 16
Arrived at: 1105
Initial PID _____
Bailing PID = _____

PURGE VOLUME:_____
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1130	0	1.00	-86.6	6.72	1.078	19.37	21.1	200 ( )	8.26
1140	0.5	0.44	-83.3	6.51	1.079	19.22	19.1	200	8.26
1150	1.0	0.25	-80.0	6.51	1.061	19.29	18.2	200	8.26
1155	1.25	0.20	-81.8	6.51	1.054	19.20	14.8	200	8.26
1200	1.50	0.17	-83.4	6.53	1.046	19.21	13.0	200	8.26
1205	1.75	0.14	-84.2	6.54	1.040	19.06	11.0	200	8.26
1210	2.0	0.14	-87.4	6.55	1.038	19.22	9.68	200	8.26

NOTES:

SAMPLE DATE: 1/25/18
SAMPLE TIME: 1212

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Clear, Temp 51°F	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Daniel Howard		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: __Standard __ Compliance __Background __Extraction
WELL ID: MW-408DR-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic pump

Product In Well: Yes / (No) _____(ft)

DUP./REP. OF:_____

WELL DIAMETER: 2
DEPTH TO WATER: 7.67 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 24.66
WATER COLUMN HEIGHT: 16.99

Top of Screened interval (btoc):_____
Screen length:_____
Tubing/Pump Intake Depth 21.5
Arrived at: 1230
Initial PID _____
Bailing PID = _____

PURGE VOLUME:_____
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1250	0	0.62	15.7	6.18	0.592	19.61	24.7	200 ( )	9.41
1300	0.5	0.35	13.9	5.93	0.601	18.80	22.7	100	9.85
1305	0.6125	0.23	15.9	5.86	0.601	18.65	24.6	100	10.04
1310	0.75	0.22	15.8	5.83	0.601	18.72	22.0	100	10.16
1315	0.8875	0.26	15.5	5.80	0.601	18.76	20.8	100	10.23
1320	1.0	0.19	15.8	5.79	0.602	18.71	21.1	100	10.32

NOTES: Organic material in water

SAMPLE DATE: 1/25/18
SAMPLE TIME: 1325

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Clear, Temp 55°F	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Daniel Howard		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: ✓Standard __ Compliance __Background __Extraction
WELL ID: MW-500BR-0118
WELL MATERIAL: PVC
SAMPLE METHOD: peristaltic

DUP./REP. OF: N/A

Top of Screened interval (btoc): _____
Screen length: _____
Tubing/Pump Intake Depth 50'
Arrived at: 15:05
Initial PID N/A
Bailing PID = N/A

Product In Well: Yes / No: _____(ft)

WELL DIAMETER: 3" on 1-25-18
DEPTH TO WATER: 9.21'
TOTAL DEPTH: 55.1'
WATER COLUMN HEIGHT: 45.89'
PURGE VOLUME: _____

GRAB (x) COMPOSITE ( )

[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

15:28 Begin Purging. TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	0.53gal/5min. Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 15:33	0.5	0.53	-19.6	8.70	0.172	21.08	7.22	400 ( )	9.48'
15:38	1.0	0.32	-29.7	8.93	0.172	21.24	3.60	400	9.50'
15:43	1.5	0.22	-33.5	9.14	0.173	21.25	2.30	400	9.50'
15:48	2.0	0.16	-32.8	9.90	0.185	21.17	2.26	400	9.50'
15:53	2.5	0.13	-35.4	10.80	0.252	21.18	3.58	400	9.50'
15:58	3.0	0.11	-45.2	11.43	0.472	21.06	1.03	400	9.52'
16:03	3.5	0.12	-58.1	11.82	0.765	21.12	0.79	400	9.52'
16:08	4.0	0.10	-60.5	11.92	0.873	20.94	2.61	400	9.53'
16:13	4.5	0.10	-57.3	11.73	0.691	21.06	6.73	400	9.53'
16:18	5.0	0.09	-55.1	11.61	0.613	21.07	9.94	400	9.53'
16:23	5.5	0.08	-51.5	11.36	0.496	20.96	11.2	400	9.53'
16:28	6.0	0.08	-48.6	11.34	0.487	20.92	9.72	400	9.53'
16:33	6.5	0.06	-48.1	11.30	0.489	20.98	9.51	400	9.53'
~~16:38~~ 1-25-18							7.46	After completing Sample collection	

NOTES: PURGE WATER HAS noticable odor, WATER has a lot of dissolved gas bubbles when collecting samples for turbidity. Hard to let it sit for a couple of minutes for bubbles to rise completely to the top.

SAMPLE DATE: 1-25-2018
SAMPLE TIME: 16:35

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Clear, Sunny, 58°F	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER:	Jerrell Parker	OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: ✓Standard __ Compliance __Background __Extraction
WELL ID: MW-04S-0118 + Dup-4
WELL MATERIAL: PVC
SAMPLE METHOD: peristaltic
DUP./REP. OF: DUP-04-0118

Product In Well: Yes / No: _____(ft)

WELL DIAMETER: 2"
DEPTH TO WATER: 7.75' → on 1-25-18
GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 11.97
WATER COLUMN HEIGHT: 4.22' x 0.163 = 0.69 gal x 3
PURGE VOLUME: 2.0 gal.

Top of Screened interval (btoc): 6.97
Screen length: 5'
Tubing/Pump Intake Depth ~~11.0~~ 11.5' on 1-25-18
Arrived at: 09:00
Initial PID N/A
Bailing PID = N/A

[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

09:10 Begin purging. TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	~0.3 gal/5 min TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 09:20	0.5	4.00	129.0	6.16	0.568	13.64	3.20	200 ( )	8.49'
09:25	0.8	0.76	17.9	6.73	0.560	14.77	1.65	200	8.95
09:30	1.1	0.46	9.5	6.81	0.561	15.26	1.52	200 ↓	9.31'
09:35	1.4	0.44	6.1	6.81	0.557	15.01	1.22	125	9.44'
09:40	1.7	0.46	4.4	6.80	0.555	14.94	1.42	125	9.65'
09:45	2.0	0.43	2.5	6.80	0.554	14.92	1.38	125	9.95'
10:08	At start of PAH samples. (4x1L Amber glass)							125	10.82'
	Filled each bottle ½ full, then topped off 2nd half of each bottle								
	due to slow speed + large sample volume.								
10:24	out of water in well while filling 2nd half of 1st 1L amber. Pump off for all non-change.								
10:25	wrapped tubing from Toc to tip in clean Ziploc bag + moved to MW-40 for set up.								
08:35 1-26-18	check water level.							→	8.66'
08:40	Collect balance of PAH Primary + Duplicate samples (2nd ½ of each bottle).								
08:50	Complete filling All 4x1L Amber bottles for PAH Analysis.								

NOTES:
↓ = Reduced purge flow rate.
Also Collected (Dup-04-0118) 1-25-2018 @ 12:00

NOTE: Even at 125mL/min., well continues to drawdown. 3 well volumes were removed and well WQ parameters stabilized.

SAMPLE DATE: 1-25-2018
SAMPLE TIME: 09:46

CONTAINER SIZE/TYPE	NO.	Dup-04	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	2	HCL	8260	VOC list
1 L Amber	2	2	None	8270C SIM	PAHs
500 ml poly	1	1	NaOH	9014	CN

GENERAL INFORMATION			
WEATHER:	clear, sunny, light breeze from west, 34°F		
SHIPPED VIA:	Delivered/Shipped to AES laboratory		
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340		
SAMPLER:	Jerrell Parker	OBSERVER:	

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: ✓Standard __ Compliance __Background __Extraction
WELL ID: MW-505D-01/18
WELL MATERIAL: PVC
SAMPLE METHOD: peristaltic w/ ¼" OD PE tubing

DUP./REP. OF: N/A

Top of Screened interval (btoc): 18.2 Assume 10' screen
Screen length: ~~10~~ 5' MD 1-23-18
Tubing/Pump Intake Depth ~~23.2~~ 26' MD 1-23-18
Arrived at: 09:05
Initial PID N/A
Bailing PID = N/A

Product In Well: Yes / No: NO (ft)
WELL DIAMETER: 2" / 1-23-18
DEPTH TO WATER: 4.77 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 28.2
WATER COLUMN HEIGHT: 23.43 x 0.163 = 3.82 gal x 3 =
PURGE VOLUME: 11.5 if 3 well vol. Req.

[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

09:21 Begin Purging TIME	0 VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	0.4 gal/5 min. Pump Rate ml/min. (& pump setting) 13	New Water Level 18
Initial: 09:27	0.5	1.73	-29.1	6.11	0.630	19.28	5.31	325 (1)	4.95'
09:32	0.9	0.65	-31.1	6.11	0.632	19.32	2.89	325	4.95'
09:37	1.3	0.41	-32.6	6.12	0.632	19.41	1.19	325	4.95'
09:42	1.7	0.28	-32.1	6.11	0.632	19.38	1.06	325	4.95'
09:47	2.1	0.29	-31.8	6.10	0.635	19.50	1.91	325	4.95'
09:52	2.5	0.24	-33.2	6.11	0.632	19.53	1.37	325	4.95

NOTES:

SAMPLE DATE: 1-23-18
SAMPLE TIME: 09:53

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	OVERCAST, 66°F	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Terrell Parker		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: ✓Standard __ Compliance __Background __Extraction
WELL ID: MW-507BR-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic pump

Product In Well: Yes / (No) _____(ft)

DUP./REP. OF:_____

WELL DIAMETER: 4
DEPTH TO WATER: 15.71 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 97.7
WATER COLUMN HEIGHT: 81.99

Top of Screened interval (btoc):_____
Screen length:_____
Tubing/Pump Intake Depth ~~98~~ DH 92Ft
Arrived at: 1435
Initial PID _____
Bailing PID = _____

PURGE VOLUME:_____
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1530	0.25	0.57	-44.7	10.42	0.590	19.04	30.3	200 ( )	16.39
1540	0.75	0.43	-50.7	10.26	0.510	19.26	19.5	200	17.10
1550	1.25	0.95	-43.0	9.84	0.432	19.16	16.1	200	17.61
1600	1.75	1.06	-37.6	9.69	0.408	19.26	14.9	200	18.25
1605	2.0	1.16	-33.8	9.64	0.403	19.12	16.8	200	18.58
1610	2.25	1.19	-32.2	9.59	0.396	18.85	15.2	200	18.86
1615	2.5	1.26	-27.7	9.50	0.384	18.31	15.4	200	19.18
1620	2.75	1.39	-25.0	9.48	0.383	18.49	14.9	200	19.46
1625	3.0	1.36	-23.5	9.46	0.380	18.59	9.86	200	19.69

NOTES: There my be ~~caving~~ in open bore hole. Pumping heavy silt at 97.7 Ft. Cave in, Cannot get tubing below 97.7 Ft.

SAMPLE DATE: 1/25/18
SAMPLE TIME: 1630

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Clear, Temp 59°F	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER:		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: __Standard __ Compliance __Background __Extraction
WELL ID: MW-508BR-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic Pump

DUP./REP. OF: _____

Top of Screened interval (btoc): _____
Screen length: _____
Tubing/Pump Intake Depth ~ 70.0'
Arrived at: 1307
Initial PID _____
Bailing PID = _____

Product In Well: Yes / No: NO (ft)

WELL DIAMETER: 4"
DEPTH TO WATER: 10.14 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 73.7
WATER COLUMN HEIGHT: 63.56
PURGE VOLUME: _____
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1319	.25	5.39	92.3	11.42	0.992	20.74	3.87	200 ( )	10.41
1324	.50	4.36	55.0	11.43	1.034	20.62	1.05	200	11.05
1329	.75	4.26	21.0	11.51	1.058	20.58	0.80	200	12.31
1334	1.00	3.81	-24.7	11.42	1.056	20.93	0.80	200	12.81
1339	1.25	3.84	-22.6	11.42	1.057	20.90	0.68	200	12.85
1344	1.50	3.80	-21.7	11.42	1.055	21.01	0.95	200	12.90
1349	1.75	3.78	-19.3	11.43	1.057	21.00	0.93	200	12.97
1350	Sample	from	MW-508BR-0118						

NOTES:

SAMPLE DATE: 1-23-18
SAMPLE TIME: 1350

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION			
WEATHER:			
SHIPPED VIA:	Delivered/Shipped to AES laboratory		
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340		
SAMPLER:	Mark Andrews	OBSERVER:	

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: __Standard __ Compliance __Background __Extraction
WELL ID: MW-513BR-0118
WELL MATERIAL: PVC
SAMPLE METHOD: Peristaltic pump

Product In Well: Yes / (No) _____(ft)

DUP./REP. OF:_____

WELL DIAMETER: 6
DEPTH TO WATER: ~~9~~ 8.85 GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 63.70
WATER COLUMN HEIGHT: ~~54~~ 54.85

Top of Screened interval (btoc):_____
Screen length:_____
Tubing/Pump Intake Depth 58.5
Arrived at: 0935
Initial PID _____
Bailing PID = _____

PURGE VOLUME:_____
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1000	0	1.67	-8.8	6.51	0.581	19.76	10.8	200 ( )	8.93
1010	0.5	0.50	-37.9	6.38	0.544	20.16	6.67	200	8.93
1015	0.75	0.45	-41.6	6.38	0.557	20.40	6.39	200	8.93
1020	1.0	0.40	-43.8	6.38	0.560	20.18	5.70	200	8.93
1025	1.25	0.38	-45.3	6.38	0.565	20.02	5.16	200	8.93

NOTES: Collected MW-513BR-0118MS/MSD also

SAMPLE DATE: 1/24/18
SAMPLE TIME: 1030

CONTAINER SIZE/TYPE	NO.	MS/MSD	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	2	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	4	HCL	8260	VOC list
1 L Amber	2	4	None	8270C SIM	PAHs
500 ml poly	1	2	NaOH	9014	CN

GENERAL INFORMATION		
WEATHER:	Clear, Temp 40°F	
SHIPPED VIA:	Delivered/Shipped to AES laboratory	
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340	
SAMPLER: Daniel Howard		OBSERVER:

PROJECT NAME: AGL-Augusta, Augusta, GA

FIELD SAMPLING REPORT

Project Number: 6122-15-0235

Amec Foster Wheeler, E&I
1075 BIG SHANTY ROAD NW, SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

SAMPLING EVENT: __1ST QUARTER __2ND QUARTER __3RD QUARTER __4TH QUARTER
MONITORING WELL TYPE: ✓Standard __ Compliance __Background __Extraction
WELL ID: MW-602-0118
WELL MATERIAL: PVC
SAMPLE METHOD: peristaltic

DUP./REP. OF: N/A

Top of Screened interval (btoc): 22-32
Screen length: 10'
Tubing/Pump Intake Depth 27'
Arrived at: 11:46
Initial PID N/A
Bailing PID = N/A

Product In Well: Yes / No: NO (ft)

WELL DIAMETER: 2" on 1-23-18
DEPTH TO WATER: 7.77' GRAB (x) COMPOSITE ( )
TOTAL DEPTH: 31.97'
WATER COLUMN HEIGHT: 24.2 x 0.163 = 3.94 gal x 3 =
PURGE VOLUME: 11.8 gal. if 3 well Vol. Req.
[0.04 x water column height (ft) x 3 (well volumes) for 1" wells]
[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]
[0.653 x water column height (ft) x 3 (well volumes) for 4" wells]
[1.47 x water column height (ft) x 3 (well volumes) for 6" wells]

11:59 begin purging. TIME	VOL. PURGED (gal)	Diss. Oxygen (+/- 10%)	ORP (+/- 10 mV)	pH (+/- 0.1 pH units)	SPEC. COND. (ms/cm) [+/- 3%]	TEMP (°C)	TURB. (NTU) [<10 NTU]	~0.5 gal/5 min. Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 12:02	0.2	2.70	-24.1	5.97	0.538	20.60	10.6	400 ( )	8.28
12:07	0.7	0.50	-34.9	5.98	0.538	20.62	8.26	400	8.30
12:12	1.2	0.35	-41.2	6.03	0.538	20.51	6.18	400	8.30
12:17	1.7	0.20	-45.3	6.06	0.539	20.65	3.32	400	8.30
12:22	2.2	0.16	-46.9	6.07	0.539	20.56	2.80	400	8.30
12:27	2.7	0.14	-48.0	6.06	0.538	20.52	2.08	400	8.30
12:32	3.2	0.13	-49.9	6.07	0.538	20.77	2.23	400	8.30

NOTES:

SAMPLE DATE: 1-23-2018
SAMPLE TIME: 12:33

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ml poly	1	HNO3	6020/ 7470A	Total Metals & Hg
40 ml vial	2	HCL	8260	VOC list
1 L Amber	2	None	8270C SIM	PAHs
500 ml poly	1	NaOH	9014	CN

GENERAL INFORMATION			
WEATHER:	Clear, windy, 65°F		
SHIPPED VIA:	Delivered/Shipped to AES laboratory		
SHIPPED TO:	AES Laboratories, 3785 Presidential Parkway, Atlanta, GA 30340		
SAMPLER:	Jerrell Parker	OBSERVER:	

APPENDIX B

LABORATORY ANALYTICAL REPORTS

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 06, 2018

John Quinn
AMEC Foster Wheeler

1075 Big Shanty Rd NW
Kennesaw GA 30144

RE: AGL - Augusta

Dear John Quinn: Order No: 1801K21

Analytical Environmental Services, Inc. received 16 samples on 1/25/2018 9:55:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.
These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ioana Pacurar

Ioana Pacurar

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1801K21

Date: 1/24/18 Page 1 of 2

COMPANY: Wood E&I

ADDRESS: 1075 Big Shanty Rd Ste 100 Kennesaw, GA 30144

PHONE: 770-421-3400

EMAIL:

SAMPLED BY: DHoward, M Andrews, T Parker

SIGNATURE: Daniel Howard

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes): H+I	N	I	NaOH	VOC 8260	7 metals+Hg 6020/7470A	PAHs SIM 8270C	CN 9014	REMARKS	Number of Containers
1	MW-3065AP-0118	1/23/18	1036	X		GW	2	1	2	1						6
2	TB-01-0118		0930	X		W	2									2
3	MW-306D-0118		1202	X		GW	2	1	2	1						6
4	MW-306TZ-0118		1312	X		GW	2	1	2	1						6
5	MW-306BR-0118		1512	X		GW	2	1	2	1						6
6	DUP-2-0118		1200	X		GW	2	1	2	1						6
7	MW-05-0118		1022	X		GW	2	1	2	1						6
8	MW-207-0118		1152	X		GW	2	1	2	1						6
9	MW-508RR-0118		1350	X		GW	2	1	2	1						6
10	MW-12-0118		1514	X		GW	2	1	2	1						6
11	DUP-1-0118		1200	X		GW	2	1	2	1						6
12	MW-505D-0118		0953	X		GW	2	1	2	1						6
13	MW-304-0118		1111	X		GW	2	1	2	1						6
14	MW-602-0118		1233	X		GW	2	1	2	1						6

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY: DATE/TIME:
1. Daniel Howard 1/24/18/1745
2.
3.

RECEIVED BY: DATE/TIME:
1. 1/25/18 9:55AM
2.
3.

SPECIAL INSTRUCTIONS/COMMENTS:
See attached sheet For reporting limits

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client (FedEx) UPS US mail courier Greyhound
other: _____

PROJECT INFORMATION
PROJECT NAME: AGL Augusta
PROJECT #: 612215023S.01
SITE ADDRESS: 8th St + Walton Way Augusta GA
SEND REPORT TO: John Quinn
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time (TAT) Request
- [X] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush (auth req.)
- [ ] Other _____

STATE PROGRAM (if any): _____
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ◉ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
AES Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1801K21

Date: 1/24/18 Page 2 of 2

COMPANY:	ADDRESS:
Wood E+I	1075 Big Shanty Rd, Ste 100 Kennesaw, GA 30144
PHONE: 770-421-3400	EMAIL:
SAMPLED BY: DHoward, M Andrews, T Parker	SIGNATURE: Daniel Howard

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED: VOC 8260	Tmetals+Hg 6020/7470A	PAHs 8270C SIM	CN 9014	PRESERVATION (see codes): H+I	N	I	Na OH	REMARKS	Number of Containers
1	MW-303-0118	1/23/18	1435	X		GW					2	1	2	1		6
2	MW-309BR-0118	1/23/18	1630	X		GW					2	1	2	1		6
3	Temp Blanks															
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Daniel Howard	1/24/18/1745	1.	1/25/18 7:55
2.		2.	
3.		3.	

PROJECT INFORMATION

PROJECT NAME: AGL Augusta
PROJECT #: 6122150 #235.01
SITE ADDRESS: 8th St + Walton Way Augusta GA
SEND REPORT TO: John Quinn
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers

Turnaround Time (TAT) Request
- [X] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush (auth req.)
- [ ] Other

STATE PROGRAM (if any):
E-mail? [ ] Fax? [ ]
DATA PACKAGE: I ○ II ● III ○ IV ○

SPECIAL INSTRUCTIONS/COMMENTS:
See attached sheet for reporting limits

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client (FedEx) UPS US mail courier Greyhound
other:

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Table 2-3
Site-Specific Constituents of Interest
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Volatile Organic Compounds (VOCs), (SW-846 Method 8260B)		
Acetone - 50 ug/L	Ethylbenzene - 5 ug/L	Trichloroethylene - 5 ug/L
Benzene - 5 ug/L	Methylene Chloride - 5 ug/L	Xylenes (total) - 5 ug/L
Carbon Disulfide - 5 ug/L	Toluene - 5 ug/L	
Polynuclear Aromatic Hydrocarbons (SIM SW-846 Method 8270D)		
Acenaphthene - 0.5 ug/L	Benzo(g,h,i)perylene - 0.1 ug/L	Indeno(1,2,3-cd)pyrene- 0.05 ug/L
Acenaphthylene - 1 ug/L	Benzo(k)fluoranthene - 0.05 ug/L	Naphthalene- 0.5 ug/L
Anthracene - 0.05 ug/L	Chrysene - 0.05 ug/L	Phenanthrene- 0.05 ug/L
Benzo(a)anthracene - 0.05 ug/L	Dibenzo(a,h)anthracene - 0.1 ug/L	Pyrene- 0.05 ug/L
Benzo(a)pyrene - 0.05 ug/L	Fluoranthene- 0.1 ug/L	
Benzo(b)fluoranthene - 0.1 ug/L	Fluorene- 0.1 ug/L	
Inorganics (SW-846 Methods ~~6010C, 7470A, 6020, and 9010/9012~~) DH 9014		
Antimony -0 .006 mg/L	Copper - 0.01 mg/L	Vanadium - 0.01 mg/L
Arsenic - 0.05 mg/L	Lead - 0.01 mg/L	Zinc - 0.02 mg/L
Barium - 0.004 mg/L	Mercury-0.0002 mg/L	
Beryllium - 0.004 mg/L	Nickel - 0.02 mg/L	Cyanide - 0.01 mg/L
Cadmium - 0.005 mg/L	Selenium - 0.02 mg/L	
Chromium - 0.01 mg/L	Thallium - 0.002 mg/L	

DLH 7/19/16

Analytical Environmental Services, Inc

Date: 6-Feb-18

Client: AMEC Foster Wheeler
Project: AGL - Augusta
Lab ID: 1801K21

Case Narrative

Volatiles Organic Compounds Analysis by Method 8260B:

Benzene values for the QC samples 1801K21-010AMS/MSD are "E" qualified indicating estimated values over linear calibration range due to the level of target analyte present in the unspiked sample

Due to sample matrix, samples 1801K21-010A & 011A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-306SAP-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 10:36:00 AM
Lab ID:	1801K21-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255023	1	01/30/2018 18:59	NP
Benzene	BRL	5.0		ug/L	255023	1	01/30/2018 18:59	NP
Carbon disulfide	BRL	5.0		ug/L	255023	1	01/30/2018 18:59	NP
Ethylbenzene	BRL	5.0		ug/L	255023	1	01/30/2018 18:59	NP
Methylene chloride	BRL	5.0		ug/L	255023	1	01/30/2018 18:59	NP
Trichloroethene	BRL	5.0		ug/L	255023	1	01/30/2018 18:59	NP
Toluene	BRL	5.0		ug/L	255023	1	01/30/2018 18:59	NP
Xylenes, Total	BRL	5.0		ug/L	255023	1	01/30/2018 18:59	NP
Surr: 4-Bromofluorobenzene	97.2	68-127		%REC	255023	1	01/30/2018 18:59	NP
Surr: Dibromofluoromethane	102	84.4-122		%REC	255023	1	01/30/2018 18:59	NP
Surr: Toluene-d8	105	80.1-116		%REC	255023	1	01/30/2018 18:59	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254864	1	02/01/2018 20:46	DP
Arsenic	BRL	0.0500		mg/L	254864	1	02/01/2018 20:46	DP
Barium	0.676	0.00400		mg/L	254864	1	02/01/2018 20:46	DP
Beryllium	BRL	0.00400		mg/L	254864	1	02/01/2018 20:46	DP
Cadmium	BRL	0.00500		mg/L	254864	1	02/01/2018 20:46	DP
Chromium	BRL	0.0100		mg/L	254864	1	02/01/2018 20:46	DP
Copper	BRL	0.0100		mg/L	254864	1	02/01/2018 20:46	DP
Lead	BRL	0.0100		mg/L	254864	1	02/01/2018 20:46	DP
Nickel	0.396	0.0200		mg/L	254864	1	02/01/2018 20:46	DP
Selenium	BRL	0.0200		mg/L	254864	1	02/01/2018 20:46	DP
Thallium	BRL	0.00200		mg/L	254864	1	02/01/2018 20:46	DP
Vanadium	BRL	0.0100		mg/L	254864	1	02/01/2018 20:46	DP
Zinc	BRL	0.0200		mg/L	254864	1	02/01/2018 20:46	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254837	1	01/29/2018 17:51	YH
Acenaphthylene	BRL	1.0		ug/L	254837	1	01/29/2018 17:51	YH
Acenaphthene	BRL	0.50		ug/L	254837	1	01/29/2018 17:51	YH
Fluorene	BRL	0.10		ug/L	254837	1	01/29/2018 17:51	YH
Phenanthrene	BRL	0.050		ug/L	254837	1	01/29/2018 17:51	YH
Anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 17:51	YH
Fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 17:51	YH
Pyrene	0.058	0.050		ug/L	254837	1	01/29/2018 17:51	YH
Benz(a)anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 17:51	YH
Chrysene	BRL	0.050		ug/L	254837	1	01/29/2018 17:51	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 17:51	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254837	1	01/29/2018 17:51	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 17:51	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-306SAP-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 10:36:00 AM
Lab ID:	1801K21-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 17:51	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254837	1	01/29/2018 17:51	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254837	1	01/29/2018 17:51	YH
Surr: 4-Terphenyl-d14	120	59.9-128		%REC	254837	1	01/29/2018 17:51	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	254952	1	01/30/2018 08:02	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255015	1	01/31/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	TB-01-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 9:30:00 AM
Lab ID:	1801K21-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Acetone	BRL	50		ug/L	255023	1	01/30/2018 17:49	NP
Benzene	BRL	5.0		ug/L	255023	1	01/30/2018 17:49	NP
Carbon disulfide	BRL	5.0		ug/L	255023	1	01/30/2018 17:49	NP
Ethylbenzene	BRL	5.0		ug/L	255023	1	01/30/2018 17:49	NP
Methylene chloride	BRL	5.0		ug/L	255023	1	01/30/2018 17:49	NP
Trichloroethene	BRL	5.0		ug/L	255023	1	01/30/2018 17:49	NP
Toluene	BRL	5.0		ug/L	255023	1	01/30/2018 17:49	NP
Xylenes, Total	BRL	5.0		ug/L	255023	1	01/30/2018 17:49	NP
Surr: 4-Bromofluorobenzene	96.5	68-127		%REC	255023	1	01/30/2018 17:49	NP
Surr: Dibromofluoromethane	99.7	84.4-122		%REC	255023	1	01/30/2018 17:49	NP
Surr: Toluene-d8	103	80.1-116		%REC	255023	1	01/30/2018 17:49	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-306D-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 12:02:00 PM
Lab ID:	1801K21-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255023	1	01/30/2018 19:23	NP
Benzene	BRL	5.0		ug/L	255023	1	01/30/2018 19:23	NP
Carbon disulfide	BRL	5.0		ug/L	255023	1	01/30/2018 19:23	NP
Ethylbenzene	BRL	5.0		ug/L	255023	1	01/30/2018 19:23	NP
Methylene chloride	BRL	5.0		ug/L	255023	1	01/30/2018 19:23	NP
Trichloroethene	BRL	5.0		ug/L	255023	1	01/30/2018 19:23	NP
Toluene	BRL	5.0		ug/L	255023	1	01/30/2018 19:23	NP
Xylenes, Total	BRL	5.0		ug/L	255023	1	01/30/2018 19:23	NP
Surr: 4-Bromofluorobenzene	95.6	68-127		%REC	255023	1	01/30/2018 19:23	NP
Surr: Dibromofluoromethane	103	84.4-122		%REC	255023	1	01/30/2018 19:23	NP
Surr: Toluene-d8	104	80.1-116		%REC	255023	1	01/30/2018 19:23	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254864	1	02/01/2018 20:55	DP
Arsenic	BRL	0.0500		mg/L	254864	1	02/01/2018 20:55	DP
Barium	0.670	0.00400		mg/L	254864	1	02/01/2018 20:55	DP
Beryllium	BRL	0.00400		mg/L	254864	1	02/01/2018 20:55	DP
Cadmium	BRL	0.00500		mg/L	254864	1	02/01/2018 20:55	DP
Chromium	BRL	0.0100		mg/L	254864	1	02/01/2018 20:55	DP
Copper	BRL	0.0100		mg/L	254864	1	02/01/2018 20:55	DP
Lead	BRL	0.0100		mg/L	254864	1	02/01/2018 20:55	DP
Nickel	BRL	0.0200		mg/L	254864	1	02/01/2018 20:55	DP
Selenium	BRL	0.0200		mg/L	254864	1	02/01/2018 20:55	DP
Thallium	BRL	0.00200		mg/L	254864	1	02/01/2018 20:55	DP
Vanadium	BRL	0.0100		mg/L	254864	1	02/01/2018 20:55	DP
Zinc	BRL	0.0200		mg/L	254864	1	02/01/2018 20:55	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254837	1	01/29/2018 18:17	YH
Acenaphthylene	BRL	1.0		ug/L	254837	1	01/29/2018 18:17	YH
Acenaphthene	BRL	0.50		ug/L	254837	1	01/29/2018 18:17	YH
Fluorene	BRL	0.10		ug/L	254837	1	01/29/2018 18:17	YH
Phenanthrene	BRL	0.050		ug/L	254837	1	01/29/2018 18:17	YH
Anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 18:17	YH
Fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 18:17	YH
Pyrene	0.076	0.050		ug/L	254837	1	01/29/2018 18:17	YH
Benz(a)anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 18:17	YH
Chrysene	BRL	0.050		ug/L	254837	1	01/29/2018 18:17	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 18:17	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254837	1	01/29/2018 18:17	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 18:17	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-306D-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 12:02:00 PM
Lab ID:	1801K21-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 18:17	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254837	1	01/29/2018 18:17	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254837	1	01/29/2018 18:17	YH
Surr: 4-Terphenyl-d14	118	59.9-128		%REC	254837	1	01/29/2018 18:17	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	254952	1	01/30/2018 08:21	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255015	1	01/31/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-306TZ-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 1:12:00 PM
Lab ID:	1801K21-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255023	1	01/30/2018 19:47	NP
Benzene	BRL	5.0		ug/L	255023	1	01/30/2018 19:47	NP
Carbon disulfide	BRL	5.0		ug/L	255023	1	01/30/2018 19:47	NP
Ethylbenzene	BRL	5.0		ug/L	255023	1	01/30/2018 19:47	NP
Methylene chloride	BRL	5.0		ug/L	255023	1	01/30/2018 19:47	NP
Trichloroethene	BRL	5.0		ug/L	255023	1	01/30/2018 19:47	NP
Toluene	BRL	5.0		ug/L	255023	1	01/30/2018 19:47	NP
Xylenes, Total	6.9	5.0		ug/L	255023	1	01/30/2018 19:47	NP
Surr: 4-Bromofluorobenzene	102	68-127		%REC	255023	1	01/30/2018 19:47	NP
Surr: Dibromofluoromethane	102	84.4-122		%REC	255023	1	01/30/2018 19:47	NP
Surr: Toluene-d8	105	80.1-116		%REC	255023	1	01/30/2018 19:47	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254864	1	02/01/2018 20:57	DP
Arsenic	BRL	0.0500		mg/L	254864	1	02/01/2018 20:57	DP
Barium	0.650	0.00400		mg/L	254864	1	02/01/2018 20:57	DP
Beryllium	BRL	0.00400		mg/L	254864	1	02/01/2018 20:57	DP
Cadmium	BRL	0.00500		mg/L	254864	1	02/01/2018 20:57	DP
Chromium	BRL	0.0100		mg/L	254864	1	02/01/2018 20:57	DP
Copper	BRL	0.0100		mg/L	254864	1	02/01/2018 20:57	DP
Lead	BRL	0.0100		mg/L	254864	1	02/01/2018 20:57	DP
Nickel	BRL	0.0200		mg/L	254864	1	02/01/2018 20:57	DP
Selenium	BRL	0.0200		mg/L	254864	1	02/01/2018 20:57	DP
Thallium	BRL	0.00200		mg/L	254864	1	02/01/2018 20:57	DP
Vanadium	BRL	0.0100		mg/L	254864	1	02/01/2018 20:57	DP
Zinc	BRL	0.0200		mg/L	254864	1	02/01/2018 20:57	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	350	50		ug/L	254837	100	01/31/2018 12:21	YH
Acenaphthylene	BRL	1.0		ug/L	254837	1	01/29/2018 18:42	YH
Acenaphthene	18	10		ug/L	254837	100	01/31/2018 12:21	YH
Fluorene	2.9	0.10		ug/L	254837	1	01/29/2018 18:42	YH
Phenanthrene	1.6	0.050		ug/L	254837	1	01/29/2018 18:42	YH
Anthracene	0.35	0.050		ug/L	254837	1	01/29/2018 18:42	YH
Fluoranthene	0.18	0.10		ug/L	254837	1	01/29/2018 18:42	YH
Pyrene	0.18	0.050		ug/L	254837	1	01/29/2018 18:42	YH
Benz(a)anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 18:42	YH
Chrysene	BRL	0.050		ug/L	254837	1	01/29/2018 18:42	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 18:42	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254837	1	01/29/2018 18:42	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 18:42	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-306TZ-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 1:12:00 PM
Lab ID:	1801K21-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 18:42	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254837	1	01/29/2018 18:42	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254837	1	01/29/2018 18:42	YH
Surr: 4-Terphenyl-d14	130	59.9-128	S	%REC	254837	1	01/29/2018 18:42	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	254952	1	01/30/2018 08:25	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255015	1	01/31/2018 14:00	AK

Qualifiers:

* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
BRL Below reporting limit	S Spike Recovery outside limits due to matrix
H Holding times for preparation or analysis exceeded	Narr See case narrative
N Analyte not NELAC certified	NC Not confirmed
B Analyte detected in the associated method blank	< Less than Result value
> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-306BR-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 3:12:00 PM
Lab ID:	1801K21-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255023	1	01/30/2018 20:11	NP
Benzene	BRL	5.0		ug/L	255023	1	01/30/2018 20:11	NP
Carbon disulfide	BRL	5.0		ug/L	255023	1	01/30/2018 20:11	NP
Ethylbenzene	BRL	5.0		ug/L	255023	1	01/30/2018 20:11	NP
Methylene chloride	BRL	5.0		ug/L	255023	1	01/30/2018 20:11	NP
Trichloroethene	BRL	5.0		ug/L	255023	1	01/30/2018 20:11	NP
Toluene	BRL	5.0		ug/L	255023	1	01/30/2018 20:11	NP
Xylenes, Total	BRL	5.0		ug/L	255023	1	01/30/2018 20:11	NP
Surr: 4-Bromofluorobenzene	102	68-127		%REC	255023	1	01/30/2018 20:11	NP
Surr: Dibromofluoromethane	102	84.4-122		%REC	255023	1	01/30/2018 20:11	NP
Surr: Toluene-d8	104	80.1-116		%REC	255023	1	01/30/2018 20:11	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254864	1	02/01/2018 20:59	DP
Arsenic	BRL	0.0500		mg/L	254864	1	02/01/2018 20:59	DP
Barium	0.453	0.00400		mg/L	254864	1	02/01/2018 20:59	DP
Beryllium	BRL	0.00400		mg/L	254864	1	02/01/2018 20:59	DP
Cadmium	BRL	0.00500		mg/L	254864	1	02/01/2018 20:59	DP
Chromium	BRL	0.0100		mg/L	254864	1	02/01/2018 20:59	DP
Copper	BRL	0.0100		mg/L	254864	1	02/01/2018 20:59	DP
Lead	BRL	0.0100		mg/L	254864	1	02/01/2018 20:59	DP
Nickel	BRL	0.0200		mg/L	254864	1	02/01/2018 20:59	DP
Selenium	BRL	0.0200		mg/L	254864	1	02/01/2018 20:59	DP
Thallium	BRL	0.00200		mg/L	254864	1	02/01/2018 20:59	DP
Vanadium	BRL	0.0100		mg/L	254864	1	02/01/2018 20:59	DP
Zinc	BRL	0.0200		mg/L	254864	1	02/01/2018 20:59	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	330	50		ug/L	254837	100	01/31/2018 12:48	YH
Acenaphthylene	BRL	1.0		ug/L	254837	1	01/29/2018 19:07	YH
Acenaphthene	14	10		ug/L	254837	100	01/31/2018 12:48	YH
Fluorene	2.3	0.10		ug/L	254837	1	01/29/2018 19:07	YH
Phenanthrene	1.2	0.050		ug/L	254837	1	01/29/2018 19:07	YH
Anthracene	0.25	0.050		ug/L	254837	1	01/29/2018 19:07	YH
Fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 19:07	YH
Pyrene	0.11	0.050		ug/L	254837	1	01/29/2018 19:07	YH
Benz(a)anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 19:07	YH
Chrysene	BRL	0.050		ug/L	254837	1	01/29/2018 19:07	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 19:07	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254837	1	01/29/2018 19:07	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 19:07	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-306BR-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 3:12:00 PM
Lab ID:	1801K21-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 19:07	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254837	1	01/29/2018 19:07	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254837	1	01/29/2018 19:07	YH
Surr: 4-Terphenyl-d14	110	59.9-128		%REC	254837	1	01/29/2018 19:07	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	254952	1	01/30/2018 08:29	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255015	1	01/31/2018 14:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	DUP-2-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 12:00:00 PM
Lab ID:	1801K21-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255023	1	01/30/2018 20:34	NP
Benzene	BRL	5.0		ug/L	255023	1	01/30/2018 20:34	NP
Carbon disulfide	BRL	5.0		ug/L	255023	1	01/30/2018 20:34	NP
Ethylbenzene	BRL	5.0		ug/L	255023	1	01/30/2018 20:34	NP
Methylene chloride	BRL	5.0		ug/L	255023	1	01/30/2018 20:34	NP
Trichloroethene	BRL	5.0		ug/L	255023	1	01/30/2018 20:34	NP
Toluene	BRL	5.0		ug/L	255023	1	01/30/2018 20:34	NP
Xylenes, Total	BRL	5.0		ug/L	255023	1	01/30/2018 20:34	NP
Surr: 4-Bromofluorobenzene	103	68-127		%REC	255023	1	01/30/2018 20:34	NP
Surr: Dibromofluoromethane	103	84.4-122		%REC	255023	1	01/30/2018 20:34	NP
Surr: Toluene-d8	105	80.1-116		%REC	255023	1	01/30/2018 20:34	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254864	1	02/01/2018 21:07	DP
Arsenic	BRL	0.0500		mg/L	254864	1	02/01/2018 21:07	DP
Barium	0.451	0.00400		mg/L	254864	1	02/01/2018 21:07	DP
Beryllium	BRL	0.00400		mg/L	254864	1	02/01/2018 21:07	DP
Cadmium	BRL	0.00500		mg/L	254864	1	02/01/2018 21:07	DP
Chromium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:07	DP
Copper	BRL	0.0100		mg/L	254864	1	02/01/2018 21:07	DP
Lead	BRL	0.0100		mg/L	254864	1	02/01/2018 21:07	DP
Nickel	BRL	0.0200		mg/L	254864	1	02/01/2018 21:07	DP
Selenium	BRL	0.0200		mg/L	254864	1	02/01/2018 21:07	DP
Thallium	BRL	0.00200		mg/L	254864	1	02/01/2018 21:07	DP
Vanadium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:07	DP
Zinc	BRL	0.0200		mg/L	254864	1	02/01/2018 21:07	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	360	50		ug/L	254837	100	01/31/2018 13:15	YH
Acenaphthylene	BRL	1.0		ug/L	254837	1	01/29/2018 19:33	YH
Acenaphthene	16	10		ug/L	254837	100	01/31/2018 13:15	YH
Fluorene	2.5	0.10		ug/L	254837	1	01/29/2018 19:33	YH
Phenanthrene	1.3	0.050		ug/L	254837	1	01/29/2018 19:33	YH
Anthracene	0.26	0.050		ug/L	254837	1	01/29/2018 19:33	YH
Fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 19:33	YH
Pyrene	0.12	0.050		ug/L	254837	1	01/29/2018 19:33	YH
Benz(a)anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 19:33	YH
Chrysene	BRL	0.050		ug/L	254837	1	01/29/2018 19:33	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 19:33	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254837	1	01/29/2018 19:33	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 19:33	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	DUP-2-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 12:00:00 PM
Lab ID:	1801K21-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 19:33	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254837	1	01/29/2018 19:33	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254837	1	01/29/2018 19:33	YH
Surr: 4-Terphenyl-d14	119	59.9-128		%REC	254837	1	01/29/2018 19:33	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	254952	1	01/30/2018 08:41	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255015	1	01/31/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level
BRL	Below reporting limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
B	Analyte detected in the associated method blank
>	Greater than Result value
E	Estimated (value above quantitation range)
S	Spike Recovery outside limits due to matrix
Narr	See case narrative
NC	Not confirmed
<	Less than Result value
J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-05-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 10:22:00 AM
Lab ID:	1801K21-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255023	1	01/30/2018 20:58	NP
Benzene	BRL	5.0		ug/L	255023	1	01/30/2018 20:58	NP
Carbon disulfide	BRL	5.0		ug/L	255023	1	01/30/2018 20:58	NP
Ethylbenzene	BRL	5.0		ug/L	255023	1	01/30/2018 20:58	NP
Methylene chloride	BRL	5.0		ug/L	255023	1	01/30/2018 20:58	NP
Trichloroethene	BRL	5.0		ug/L	255023	1	01/30/2018 20:58	NP
Toluene	BRL	5.0		ug/L	255023	1	01/30/2018 20:58	NP
Xylenes, Total	BRL	5.0		ug/L	255023	1	01/30/2018 20:58	NP
Surr: 4-Bromofluorobenzene	98.1	68-127		%REC	255023	1	01/30/2018 20:58	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	255023	1	01/30/2018 20:58	NP
Surr: Toluene-d8	103	80.1-116		%REC	255023	1	01/30/2018 20:58	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254864	1	02/01/2018 21:09	DP
Arsenic	BRL	0.0500		mg/L	254864	1	02/01/2018 21:09	DP
Barium	0.337	0.00400		mg/L	254864	1	02/01/2018 21:09	DP
Beryllium	BRL	0.00400		mg/L	254864	1	02/01/2018 21:09	DP
Cadmium	BRL	0.00500		mg/L	254864	1	02/01/2018 21:09	DP
Chromium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:09	DP
Copper	BRL	0.0100		mg/L	254864	1	02/01/2018 21:09	DP
Lead	BRL	0.0100		mg/L	254864	1	02/01/2018 21:09	DP
Nickel	BRL	0.0200		mg/L	254864	1	02/01/2018 21:09	DP
Selenium	BRL	0.0200		mg/L	254864	1	02/01/2018 21:09	DP
Thallium	BRL	0.00200		mg/L	254864	1	02/01/2018 21:09	DP
Vanadium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:09	DP
Zinc	BRL	0.0200		mg/L	254864	1	02/01/2018 21:09	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254837	1	01/29/2018 19:59	YH
Acenaphthylene	BRL	1.0		ug/L	254837	1	01/29/2018 19:59	YH
Acenaphthene	BRL	0.50		ug/L	254837	1	01/29/2018 19:59	YH
Fluorene	BRL	0.10		ug/L	254837	1	01/29/2018 19:59	YH
Phenanthrene	BRL	0.050		ug/L	254837	1	01/29/2018 19:59	YH
Anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 19:59	YH
Fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 19:59	YH
Pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 19:59	YH
Benz(a)anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 19:59	YH
Chrysene	BRL	0.050		ug/L	254837	1	01/29/2018 19:59	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 19:59	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254837	1	01/29/2018 19:59	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 19:59	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-05-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 10:22:00 AM
Lab ID:	1801K21-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 19:59	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254837	1	01/29/2018 19:59	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254837	1	01/29/2018 19:59	YH
Surr: 4-Terphenyl-d14	87.3	59.9-128		%REC	254837	1	01/29/2018 19:59	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	254952	1	01/30/2018 08:45	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255015	1	01/31/2018 14:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-207-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 11:52:00 AM
Lab ID:	1801K21-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255023	1	01/30/2018 21:22	NP
Benzene	BRL	5.0		ug/L	255023	1	01/30/2018 21:22	NP
Carbon disulfide	BRL	5.0		ug/L	255023	1	01/30/2018 21:22	NP
Ethylbenzene	BRL	5.0		ug/L	255023	1	01/30/2018 21:22	NP
Methylene chloride	BRL	5.0		ug/L	255023	1	01/30/2018 21:22	NP
Trichloroethene	BRL	5.0		ug/L	255023	1	01/30/2018 21:22	NP
Toluene	BRL	5.0		ug/L	255023	1	01/30/2018 21:22	NP
Xylenes, Total	BRL	5.0		ug/L	255023	1	01/30/2018 21:22	NP
Surr: 4-Bromofluorobenzene	97.7	68-127		%REC	255023	1	01/30/2018 21:22	NP
Surr: Dibromofluoromethane	103	84.4-122		%REC	255023	1	01/30/2018 21:22	NP
Surr: Toluene-d8	106	80.1-116		%REC	255023	1	01/30/2018 21:22	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254864	1	02/01/2018 21:11	DP
Arsenic	BRL	0.0500		mg/L	254864	1	02/01/2018 21:11	DP
Barium	0.251	0.00400		mg/L	254864	1	02/01/2018 21:11	DP
Beryllium	BRL	0.00400		mg/L	254864	1	02/01/2018 21:11	DP
Cadmium	BRL	0.00500		mg/L	254864	1	02/01/2018 21:11	DP
Chromium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:11	DP
Copper	BRL	0.0100		mg/L	254864	1	02/01/2018 21:11	DP
Lead	BRL	0.0100		mg/L	254864	1	02/01/2018 21:11	DP
Nickel	BRL	0.0200		mg/L	254864	1	02/01/2018 21:11	DP
Selenium	BRL	0.0200		mg/L	254864	1	02/01/2018 21:11	DP
Thallium	BRL	0.00200		mg/L	254864	1	02/01/2018 21:11	DP
Vanadium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:11	DP
Zinc	BRL	0.0200		mg/L	254864	1	02/01/2018 21:11	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254837	1	01/29/2018 20:25	YH
Acenaphthylene	BRL	1.0		ug/L	254837	1	01/29/2018 20:25	YH
Acenaphthene	BRL	0.50		ug/L	254837	1	01/29/2018 20:25	YH
Fluorene	BRL	0.10		ug/L	254837	1	01/29/2018 20:25	YH
Phenanthrene	BRL	0.050		ug/L	254837	1	01/29/2018 20:25	YH
Anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 20:25	YH
Fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 20:25	YH
Pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 20:25	YH
Benz(a)anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 20:25	YH
Chrysene	BRL	0.050		ug/L	254837	1	01/29/2018 20:25	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 20:25	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254837	1	01/29/2018 20:25	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 20:25	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-207-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 11:52:00 AM
Lab ID:	1801K21-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 20:25	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254837	1	01/29/2018 20:25	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254837	1	01/29/2018 20:25	YH
Surr: 4-Terphenyl-d14	86	59.9-128		%REC	254837	1	01/29/2018 20:25	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	254952	1	01/30/2018 08:49	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255015	1	01/31/2018 14:00	AK

Qualifiers:

* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
BRL Below reporting limit	S Spike Recovery outside limits due to matrix
H Holding times for preparation or analysis exceeded	Narr See case narrative
N Analyte not NELAC certified	NC Not confirmed
B Analyte detected in the associated method blank	< Less than Result value
> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-508BR-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 1:50:00 PM
Lab ID:	1801K21-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255023	1	01/30/2018 18:39	NP
Benzene	BRL	5.0		ug/L	255023	1	01/30/2018 18:39	NP
Carbon disulfide	BRL	5.0		ug/L	255023	1	01/30/2018 18:39	NP
Ethylbenzene	BRL	5.0		ug/L	255023	1	01/30/2018 18:39	NP
Methylene chloride	BRL	5.0		ug/L	255023	1	01/30/2018 18:39	NP
Trichloroethene	BRL	5.0		ug/L	255023	1	01/30/2018 18:39	NP
Toluene	BRL	5.0		ug/L	255023	1	01/30/2018 18:39	NP
Xylenes, Total	BRL	5.0		ug/L	255023	1	01/30/2018 18:39	NP
Surr: 4-Bromofluorobenzene	72.4	68-127		%REC	255023	1	01/30/2018 18:39	NP
Surr: Dibromofluoromethane	98.3	84.4-122		%REC	255023	1	01/30/2018 18:39	NP
Surr: Toluene-d8	91.3	80.1-116		%REC	255023	1	01/30/2018 18:39	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254864	1	02/01/2018 21:13	DP
Arsenic	BRL	0.0500		mg/L	254864	1	02/01/2018 21:13	DP
Barium	0.242	0.00400		mg/L	254864	1	02/01/2018 21:13	DP
Beryllium	BRL	0.00400		mg/L	254864	1	02/01/2018 21:13	DP
Cadmium	BRL	0.00500		mg/L	254864	1	02/01/2018 21:13	DP
Chromium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:13	DP
Copper	BRL	0.0100		mg/L	254864	1	02/01/2018 21:13	DP
Lead	BRL	0.0100		mg/L	254864	1	02/01/2018 21:13	DP
Nickel	BRL	0.0200		mg/L	254864	1	02/01/2018 21:13	DP
Selenium	BRL	0.0200		mg/L	254864	1	02/01/2018 21:13	DP
Thallium	BRL	0.00200		mg/L	254864	1	02/01/2018 21:13	DP
Vanadium	0.0149	0.0100		mg/L	254864	1	02/01/2018 21:13	DP
Zinc	BRL	0.0200		mg/L	254864	1	02/01/2018 21:13	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254837	1	01/29/2018 20:51	YH
Acenaphthylene	BRL	1.0		ug/L	254837	1	01/29/2018 20:51	YH
Acenaphthene	BRL	0.50		ug/L	254837	1	01/29/2018 20:51	YH
Fluorene	BRL	0.10		ug/L	254837	1	01/29/2018 20:51	YH
Phenanthrene	BRL	0.050		ug/L	254837	1	01/29/2018 20:51	YH
Anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 20:51	YH
Fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 20:51	YH
Pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 20:51	YH
Benz(a)anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 20:51	YH
Chrysene	BRL	0.050		ug/L	254837	1	01/29/2018 20:51	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 20:51	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254837	1	01/29/2018 20:51	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 20:51	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-508BR-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 1:50:00 PM
Lab ID:	1801K21-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 20:51	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254837	1	01/29/2018 20:51	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254837	1	01/29/2018 20:51	YH
Surr: 4-Terphenyl-d14	112	59.9-128		%REC	254837	1	01/29/2018 20:51	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	254952	1	01/30/2018 08:53	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255015	1	01/31/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-12-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 3:14:00 PM
Lab ID:	1801K21-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	2500		ug/L	255023	50	01/30/2018 18:12	NP
Benzene	11000	500		ug/L	255023	100	01/31/2018 12:58	NP
Carbon disulfide	BRL	250		ug/L	255023	50	01/30/2018 18:12	NP
Ethylbenzene	2400	250		ug/L	255023	50	01/30/2018 18:12	NP
Methylene chloride	BRL	250		ug/L	255023	50	01/30/2018 18:12	NP
Trichloroethene	BRL	250		ug/L	255023	50	01/30/2018 18:12	NP
Toluene	920	250		ug/L	255023	50	01/30/2018 18:12	NP
Xylenes, Total	1700	250		ug/L	255023	50	01/30/2018 18:12	NP
Surr: 4-Bromofluorobenzene	102	68-127		%REC	255023	50	01/30/2018 18:12	NP
Surr: 4-Bromofluorobenzene	93	68-127		%REC	255023	100	01/31/2018 12:58	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	255023	50	01/30/2018 18:12	NP
Surr: Dibromofluoromethane	103	84.4-122		%REC	255023	100	01/31/2018 12:58	NP
Surr: Toluene-d8	102	80.1-116		%REC	255023	50	01/30/2018 18:12	NP
Surr: Toluene-d8	103	80.1-116		%REC	255023	100	01/31/2018 12:58	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254864	1	02/01/2018 21:15	DP
Arsenic	BRL	0.0500		mg/L	254864	1	02/01/2018 21:15	DP
Barium	0.165	0.00400		mg/L	254864	1	02/01/2018 21:15	DP
Beryllium	BRL	0.00400		mg/L	254864	1	02/01/2018 21:15	DP
Cadmium	BRL	0.00500		mg/L	254864	1	02/01/2018 21:15	DP
Chromium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:15	DP
Copper	BRL	0.0100		mg/L	254864	1	02/01/2018 21:15	DP
Lead	BRL	0.0100		mg/L	254864	1	02/01/2018 21:15	DP
Nickel	BRL	0.0200		mg/L	254864	1	02/01/2018 21:15	DP
Selenium	BRL	0.0200		mg/L	254864	1	02/01/2018 21:15	DP
Thallium	BRL	0.00200		mg/L	254864	1	02/01/2018 21:15	DP
Vanadium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:15	DP
Zinc	BRL	0.0200		mg/L	254864	1	02/01/2018 21:15	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	5500	500		ug/L	254837	1000	01/31/2018 15:27	YH
Acenaphthylene	3.3	1.0		ug/L	254837	1	01/29/2018 21:18	YH
Acenaphthene	100	50		ug/L	254837	100	01/31/2018 13:41	YH
Fluorene	21	10		ug/L	254837	100	01/31/2018 13:41	YH
Phenanthrene	13	5.0		ug/L	254837	100	01/31/2018 13:41	YH
Anthracene	2.1	0.050		ug/L	254837	1	01/29/2018 21:18	YH
Fluoranthene	0.29	0.10		ug/L	254837	1	01/29/2018 21:18	YH
Pyrene	0.33	0.050		ug/L	254837	1	01/29/2018 21:18	YH
Benz(a)anthracene	0.053	0.050		ug/L	254837	1	01/29/2018 21:18	YH
Chrysene	BRL	0.050		ug/L	254837	1	01/29/2018 21:18	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-12-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 3:14:00 PM
Lab ID:	1801K21-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Benzo(b)fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 21:18	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254837	1	01/29/2018 21:18	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 21:18	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 21:18	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254837	1	01/29/2018 21:18	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254837	1	01/29/2018 21:18	YH
Surr: 4-Terphenyl-d14	168	59.9-128	S	%REC	254837	1	01/29/2018 21:18	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	254952	1	01/30/2018 08:57	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255015	1	01/31/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	DUP-1-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 12:00:00 PM
Lab ID:	1801K21-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	2500		ug/L	255023	50	01/30/2018 18:36	NP
Benzene	11000	500		ug/L	255023	100	01/31/2018 14:32	NP
Carbon disulfide	BRL	250		ug/L	255023	50	01/30/2018 18:36	NP
Ethylbenzene	2400	250		ug/L	255023	50	01/30/2018 18:36	NP
Methylene chloride	BRL	250		ug/L	255023	50	01/30/2018 18:36	NP
Trichloroethene	BRL	250		ug/L	255023	50	01/30/2018 18:36	NP
Toluene	940	250		ug/L	255023	50	01/30/2018 18:36	NP
Xylenes, Total	1800	250		ug/L	255023	50	01/30/2018 18:36	NP
Surr: 4-Bromofluorobenzene	101	68-127		%REC	255023	50	01/30/2018 18:36	NP
Surr: 4-Bromofluorobenzene	90.5	68-127		%REC	255023	100	01/31/2018 14:32	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	255023	50	01/30/2018 18:36	NP
Surr: Dibromofluoromethane	105	84.4-122		%REC	255023	100	01/31/2018 14:32	NP
Surr: Toluene-d8	103	80.1-116		%REC	255023	50	01/30/2018 18:36	NP
Surr: Toluene-d8	101	80.1-116		%REC	255023	100	01/31/2018 14:32	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254864	1	02/01/2018 21:16	DP
Arsenic	BRL	0.0500		mg/L	254864	1	02/01/2018 21:16	DP
Barium	0.160	0.00400		mg/L	254864	1	02/01/2018 21:16	DP
Beryllium	BRL	0.00400		mg/L	254864	1	02/01/2018 21:16	DP
Cadmium	BRL	0.00500		mg/L	254864	1	02/01/2018 21:16	DP
Chromium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:16	DP
Copper	BRL	0.0100		mg/L	254864	1	02/01/2018 21:16	DP
Lead	BRL	0.0100		mg/L	254864	1	02/01/2018 21:16	DP
Nickel	BRL	0.0200		mg/L	254864	1	02/01/2018 21:16	DP
Selenium	BRL	0.0200		mg/L	254864	1	02/01/2018 21:16	DP
Thallium	BRL	0.00200		mg/L	254864	1	02/01/2018 21:16	DP
Vanadium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:16	DP
Zinc	BRL	0.0200		mg/L	254864	1	02/01/2018 21:16	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	6500	500		ug/L	254837	1000	01/31/2018 15:59	YH
Acenaphthylene	5.2	1.0		ug/L	254837	1	01/29/2018 21:44	YH
Acenaphthene	120	50		ug/L	254837	100	01/31/2018 14:08	YH
Fluorene	23	10		ug/L	254837	100	01/31/2018 14:08	YH
Phenanthrene	14	5.0		ug/L	254837	100	01/31/2018 14:08	YH
Anthracene	2.3	0.050		ug/L	254837	1	01/29/2018 21:44	YH
Fluoranthene	0.29	0.10		ug/L	254837	1	01/29/2018 21:44	YH
Pyrene	0.36	0.050		ug/L	254837	1	01/29/2018 21:44	YH
Benz(a)anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 21:44	YH
Chrysene	BRL	0.050		ug/L	254837	1	01/29/2018 21:44	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	DUP-1-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 12:00:00 PM
Lab ID:	1801K21-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Benzo(b)fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 21:44	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254837	1	01/29/2018 21:44	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 21:44	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 21:44	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254837	1	01/29/2018 21:44	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254837	1	01/29/2018 21:44	YH
Surr: 4-Terphenyl-d14	101	59.9-128		%REC	254837	1	01/29/2018 21:44	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	254952	1	01/30/2018 09:00	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255015	1	01/31/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-505D-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 9:53:00 AM
Lab ID:	1801K21-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255023	1	01/30/2018 19:03	NP
Benzene	BRL	5.0		ug/L	255023	1	01/30/2018 19:03	NP
Carbon disulfide	BRL	5.0		ug/L	255023	1	01/30/2018 19:03	NP
Ethylbenzene	BRL	5.0		ug/L	255023	1	01/30/2018 19:03	NP
Methylene chloride	BRL	5.0		ug/L	255023	1	01/30/2018 19:03	NP
Trichloroethene	BRL	5.0		ug/L	255023	1	01/30/2018 19:03	NP
Toluene	BRL	5.0		ug/L	255023	1	01/30/2018 19:03	NP
Xylenes, Total	BRL	5.0		ug/L	255023	1	01/30/2018 19:03	NP
Surr: 4-Bromofluorobenzene	77.1	68-127		%REC	255023	1	01/30/2018 19:03	NP
Surr: Dibromofluoromethane	93	84.4-122		%REC	255023	1	01/30/2018 19:03	NP
Surr: Toluene-d8	90.1	80.1-116		%REC	255023	1	01/30/2018 19:03	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254864	1	02/01/2018 21:18	DP
Arsenic	BRL	0.0500		mg/L	254864	1	02/01/2018 21:18	DP
Barium	0.333	0.00400		mg/L	254864	1	02/01/2018 21:18	DP
Beryllium	BRL	0.00400		mg/L	254864	1	02/01/2018 21:18	DP
Cadmium	BRL	0.00500		mg/L	254864	1	02/01/2018 21:18	DP
Chromium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:18	DP
Copper	BRL	0.0100		mg/L	254864	1	02/01/2018 21:18	DP
Lead	BRL	0.0100		mg/L	254864	1	02/01/2018 21:18	DP
Nickel	BRL	0.0200		mg/L	254864	1	02/01/2018 21:18	DP
Selenium	BRL	0.0200		mg/L	254864	1	02/01/2018 21:18	DP
Thallium	BRL	0.00200		mg/L	254864	1	02/01/2018 21:18	DP
Vanadium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:18	DP
Zinc	BRL	0.0200		mg/L	254864	1	02/01/2018 21:18	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	130	50		ug/L	254837	100	01/31/2018 14:35	YH
Acenaphthylene	BRL	1.0		ug/L	254837	1	01/29/2018 22:10	YH
Acenaphthene	93	50		ug/L	254837	100	01/31/2018 14:35	YH
Fluorene	1.6	0.10		ug/L	254837	1	01/29/2018 22:10	YH
Phenanthrene	1.4	0.050		ug/L	254837	1	01/29/2018 22:10	YH
Anthracene	0.28	0.050		ug/L	254837	1	01/29/2018 22:10	YH
Fluoranthene	0.45	0.10		ug/L	254837	1	01/29/2018 22:10	YH
Pyrene	0.69	0.050		ug/L	254837	1	01/29/2018 22:10	YH
Benz(a)anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 22:10	YH
Chrysene	BRL	0.050		ug/L	254837	1	01/29/2018 22:10	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 22:10	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254837	1	01/29/2018 22:10	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 22:10	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-505D-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 9:53:00 AM
Lab ID:	1801K21-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 22:10	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254837	1	01/29/2018 22:10	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254837	1	01/29/2018 22:10	YH
Surr: 4-Terphenyl-d14	105	59.9-128		%REC	254837	1	01/29/2018 22:10	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	254952	1	01/30/2018 09:04	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255015	1	01/31/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-304-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 11:11:00 AM
Lab ID:	1801K21-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255023	1	01/30/2018 19:27	NP
Benzene	300	50		ug/L	255023	10	01/30/2018 19:51	NP
Carbon disulfide	BRL	5.0		ug/L	255023	1	01/30/2018 19:27	NP
Ethylbenzene	BRL	5.0		ug/L	255023	1	01/30/2018 19:27	NP
Methylene chloride	BRL	5.0		ug/L	255023	1	01/30/2018 19:27	NP
Trichloroethene	BRL	5.0		ug/L	255023	1	01/30/2018 19:27	NP
Toluene	BRL	5.0		ug/L	255023	1	01/30/2018 19:27	NP
Xylenes, Total	5.3	5.0		ug/L	255023	1	01/30/2018 19:27	NP
Surr: 4-Bromofluorobenzene	70.4	68-127		%REC	255023	10	01/30/2018 19:51	NP
Surr: 4-Bromofluorobenzene	78.1	68-127		%REC	255023	1	01/30/2018 19:27	NP
Surr: Dibromofluoromethane	92	84.4-122		%REC	255023	1	01/30/2018 19:27	NP
Surr: Dibromofluoromethane	100	84.4-122		%REC	255023	10	01/30/2018 19:51	NP
Surr: Toluene-d8	85.8	80.1-116		%REC	255023	1	01/30/2018 19:27	NP
Surr: Toluene-d8	87.3	80.1-116		%REC	255023	10	01/30/2018 19:51	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254864	1	02/01/2018 21:20	DP
Arsenic	BRL	0.0500		mg/L	254864	1	02/01/2018 21:20	DP
Barium	0.326	0.00400		mg/L	254864	1	02/01/2018 21:20	DP
Beryllium	BRL	0.00400		mg/L	254864	1	02/01/2018 21:20	DP
Cadmium	BRL	0.00500		mg/L	254864	1	02/01/2018 21:20	DP
Chromium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:20	DP
Copper	BRL	0.0100		mg/L	254864	1	02/01/2018 21:20	DP
Lead	BRL	0.0100		mg/L	254864	1	02/01/2018 21:20	DP
Nickel	BRL	0.0200		mg/L	254864	1	02/01/2018 21:20	DP
Selenium	BRL	0.0200		mg/L	254864	1	02/01/2018 21:20	DP
Thallium	BRL	0.00200		mg/L	254864	1	02/01/2018 21:20	DP
Vanadium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:20	DP
Zinc	BRL	0.0200		mg/L	254864	1	02/01/2018 21:20	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	220	50		ug/L	254837	100	01/31/2018 15:02	YH
Acenaphthylene	BRL	1.0		ug/L	254837	1	01/29/2018 22:36	YH
Acenaphthene	250	50		ug/L	254837	100	01/31/2018 15:02	YH
Fluorene	2.9	0.10		ug/L	254837	1	01/29/2018 22:36	YH
Phenanthrene	1.4	0.050		ug/L	254837	1	01/29/2018 22:36	YH
Anthracene	0.28	0.050		ug/L	254837	1	01/29/2018 22:36	YH
Fluoranthene	0.29	0.10		ug/L	254837	1	01/29/2018 22:36	YH
Pyrene	0.36	0.050		ug/L	254837	1	01/29/2018 22:36	YH
Benz(a)anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 22:36	YH
Chrysene	BRL	0.050		ug/L	254837	1	01/29/2018 22:36	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-304-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 11:11:00 AM
Lab ID:	1801K21-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Benzo(b)fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 22:36	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254837	1	01/29/2018 22:36	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 22:36	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 22:36	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254837	1	01/29/2018 22:36	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254837	1	01/29/2018 22:36	YH
Surr: 4-Terphenyl-d14	102	59.9-128		%REC	254837	1	01/29/2018 22:36	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	254952	1	01/30/2018 09:08	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255015	1	01/31/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-602-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 12:33:00 PM
Lab ID:	1801K21-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255023	1	01/30/2018 20:15	NP
Benzene	BRL	5.0		ug/L	255023	1	01/30/2018 20:15	NP
Carbon disulfide	BRL	5.0		ug/L	255023	1	01/30/2018 20:15	NP
Ethylbenzene	BRL	5.0		ug/L	255023	1	01/30/2018 20:15	NP
Methylene chloride	BRL	5.0		ug/L	255023	1	01/30/2018 20:15	NP
Trichloroethene	BRL	5.0		ug/L	255023	1	01/30/2018 20:15	NP
Toluene	BRL	5.0		ug/L	255023	1	01/30/2018 20:15	NP
Xylenes, Total	BRL	5.0		ug/L	255023	1	01/30/2018 20:15	NP
Surr: 4-Bromofluorobenzene	69.9	68-127		%REC	255023	1	01/30/2018 20:15	NP
Surr: Dibromofluoromethane	102	84.4-122		%REC	255023	1	01/30/2018 20:15	NP
Surr: Toluene-d8	89.9	80.1-116		%REC	255023	1	01/30/2018 20:15	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254864	1	02/01/2018 21:22	DP
Arsenic	BRL	0.0500		mg/L	254864	1	02/01/2018 21:22	DP
Barium	0.343	0.00400		mg/L	254864	1	02/01/2018 21:22	DP
Beryllium	BRL	0.00400		mg/L	254864	1	02/01/2018 21:22	DP
Cadmium	BRL	0.00500		mg/L	254864	1	02/01/2018 21:22	DP
Chromium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:22	DP
Copper	BRL	0.0100		mg/L	254864	1	02/01/2018 21:22	DP
Lead	BRL	0.0100		mg/L	254864	1	02/01/2018 21:22	DP
Nickel	BRL	0.0200		mg/L	254864	1	02/01/2018 21:22	DP
Selenium	BRL	0.0200		mg/L	254864	1	02/01/2018 21:22	DP
Thallium	BRL	0.00200		mg/L	254864	1	02/01/2018 21:22	DP
Vanadium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:22	DP
Zinc	BRL	0.0200		mg/L	254864	1	02/01/2018 21:22	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254837	1	01/29/2018 23:01	YH
Acenaphthylene	BRL	1.0		ug/L	254837	1	01/29/2018 23:01	YH
Acenaphthene	1.6	0.50		ug/L	254837	1	01/29/2018 23:01	YH
Fluorene	0.12	0.10		ug/L	254837	1	01/29/2018 23:01	YH
Phenanthrene	BRL	0.050		ug/L	254837	1	01/29/2018 23:01	YH
Anthracene	0.19	0.050		ug/L	254837	1	01/29/2018 23:01	YH
Fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 23:01	YH
Pyrene	0.082	0.050		ug/L	254837	1	01/29/2018 23:01	YH
Benz(a)anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 23:01	YH
Chrysene	BRL	0.050		ug/L	254837	1	01/29/2018 23:01	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 23:01	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254837	1	01/29/2018 23:01	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 23:01	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-602-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 12:33:00 PM
Lab ID:	1801K21-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 23:01	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254837	1	01/29/2018 23:01	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254837	1	01/29/2018 23:01	YH
Surr: 4-Terphenyl-d14	99.7	59.9-128		%REC	254837	1	01/29/2018 23:01	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	254952	1	01/30/2018 09:12	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255015	1	01/31/2018 14:00	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-303-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 2:35:00 PM
Lab ID:	1801K21-015	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255023	1	01/30/2018 20:39	NP
Benzene	BRL	5.0		ug/L	255023	1	01/30/2018 20:39	NP
Carbon disulfide	BRL	5.0		ug/L	255023	1	01/30/2018 20:39	NP
Ethylbenzene	BRL	5.0		ug/L	255023	1	01/30/2018 20:39	NP
Methylene chloride	BRL	5.0		ug/L	255023	1	01/30/2018 20:39	NP
Trichloroethene	BRL	5.0		ug/L	255023	1	01/30/2018 20:39	NP
Toluene	BRL	5.0		ug/L	255023	1	01/30/2018 20:39	NP
Xylenes, Total	BRL	5.0		ug/L	255023	1	01/30/2018 20:39	NP
Surr: 4-Bromofluorobenzene	70.1	68-127		%REC	255023	1	01/30/2018 20:39	NP
Surr: Dibromofluoromethane	104	84.4-122		%REC	255023	1	01/30/2018 20:39	NP
Surr: Toluene-d8	91.2	80.1-116		%REC	255023	1	01/30/2018 20:39	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254864	1	02/01/2018 21:24	DP
Arsenic	BRL	0.0500		mg/L	254864	1	02/01/2018 21:24	DP
Barium	0.0625	0.00400		mg/L	254864	1	02/01/2018 21:24	DP
Beryllium	BRL	0.00400		mg/L	254864	1	02/01/2018 21:24	DP
Cadmium	BRL	0.00500		mg/L	254864	1	02/01/2018 21:24	DP
Chromium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:24	DP
Copper	BRL	0.0100		mg/L	254864	1	02/01/2018 21:24	DP
Lead	BRL	0.0100		mg/L	254864	1	02/01/2018 21:24	DP
Nickel	BRL	0.0200		mg/L	254864	1	02/01/2018 21:24	DP
Selenium	BRL	0.0200		mg/L	254864	1	02/01/2018 21:24	DP
Thallium	BRL	0.00200		mg/L	254864	1	02/01/2018 21:24	DP
Vanadium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:24	DP
Zinc	BRL	0.0200		mg/L	254864	1	02/01/2018 21:24	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254837	1	01/29/2018 23:27	YH
Acenaphthylene	BRL	1.0		ug/L	254837	1	01/29/2018 23:27	YH
Acenaphthene	BRL	0.50		ug/L	254837	1	01/29/2018 23:27	YH
Fluorene	BRL	0.10		ug/L	254837	1	01/29/2018 23:27	YH
Phenanthrene	BRL	0.050		ug/L	254837	1	01/29/2018 23:27	YH
Anthracene	0.43	0.050		ug/L	254837	1	01/29/2018 23:27	YH
Fluoranthene	0.46	0.10		ug/L	254837	1	01/29/2018 23:27	YH
Pyrene	1.3	0.050		ug/L	254837	1	01/29/2018 23:27	YH
Benz(a)anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 23:27	YH
Chrysene	BRL	0.050		ug/L	254837	1	01/29/2018 23:27	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 23:27	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254837	1	01/29/2018 23:27	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 23:27	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-303-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 2:35:00 PM
Lab ID:	1801K21-015	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 23:27	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254837	1	01/29/2018 23:27	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254837	1	01/29/2018 23:27	YH
Surr: 4-Terphenyl-d14	108	59.9-128		%REC	254837	1	01/29/2018 23:27	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	254952	1	01/30/2018 09:16	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255015	1	01/31/2018 14:00	AK

Qualifiers:

* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
BRL Below reporting limit	S Spike Recovery outside limits due to matrix
H Holding times for preparation or analysis exceeded	Narr See case narrative
N Analyte not NELAC certified	NC Not confirmed
B Analyte detected in the associated method blank	< Less than Result value
> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-309BR-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 4:30:00 PM
Lab ID:	1801K21-016	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255023	1	01/30/2018 21:03	NP
Benzene	BRL	5.0		ug/L	255023	1	01/30/2018 21:03	NP
Carbon disulfide	BRL	5.0		ug/L	255023	1	01/30/2018 21:03	NP
Ethylbenzene	BRL	5.0		ug/L	255023	1	01/30/2018 21:03	NP
Methylene chloride	BRL	5.0		ug/L	255023	1	01/30/2018 21:03	NP
Trichloroethene	BRL	5.0		ug/L	255023	1	01/30/2018 21:03	NP
Toluene	BRL	5.0		ug/L	255023	1	01/30/2018 21:03	NP
Xylenes, Total	BRL	5.0		ug/L	255023	1	01/30/2018 21:03	NP
Surr: 4-Bromofluorobenzene	71	68-127		%REC	255023	1	01/30/2018 21:03	NP
Surr: Dibromofluoromethane	102	84.4-122		%REC	255023	1	01/30/2018 21:03	NP
Surr: Toluene-d8	90.6	80.1-116		%REC	255023	1	01/30/2018 21:03	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254864	1	02/01/2018 21:32	DP
Arsenic	BRL	0.0500		mg/L	254864	1	02/01/2018 21:32	DP
Barium	0.310	0.00400		mg/L	254864	1	02/01/2018 21:32	DP
Beryllium	BRL	0.00400		mg/L	254864	1	02/01/2018 21:32	DP
Cadmium	BRL	0.00500		mg/L	254864	1	02/01/2018 21:32	DP
Chromium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:32	DP
Copper	BRL	0.0100		mg/L	254864	1	02/01/2018 21:32	DP
Lead	BRL	0.0100		mg/L	254864	1	02/01/2018 21:32	DP
Nickel	BRL	0.0200		mg/L	254864	1	02/01/2018 21:32	DP
Selenium	BRL	0.0200		mg/L	254864	1	02/01/2018 21:32	DP
Thallium	BRL	0.00200		mg/L	254864	1	02/01/2018 21:32	DP
Vanadium	BRL	0.0100		mg/L	254864	1	02/01/2018 21:32	DP
Zinc	BRL	0.0200		mg/L	254864	1	02/01/2018 21:32	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254837	1	01/29/2018 23:54	YH
Acenaphthylene	BRL	1.0		ug/L	254837	1	01/29/2018 23:54	YH
Acenaphthene	BRL	0.50		ug/L	254837	1	01/29/2018 23:54	YH
Fluorene	BRL	0.10		ug/L	254837	1	01/29/2018 23:54	YH
Phenanthrene	BRL	0.050		ug/L	254837	1	01/29/2018 23:54	YH
Anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 23:54	YH
Fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 23:54	YH
Pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 23:54	YH
Benz(a)anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 23:54	YH
Chrysene	BRL	0.050		ug/L	254837	1	01/29/2018 23:54	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 23:54	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254837	1	01/29/2018 23:54	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 23:54	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 6-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-309BR-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/23/2018 4:30:00 PM
Lab ID:	1801K21-016	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 23:54	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254837	1	01/29/2018 23:54	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254837	1	01/29/2018 23:54	YH
Surr: 4-Terphenyl-d14	109	59.9-128		%REC	254837	1	01/29/2018 23:54	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	254952	1	01/30/2018 09:28	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255015	1	01/31/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 6-Feb-18

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: MW-306SAP-0118				**Lab ID:** 1801K21-001			
Collection Date: 1/23/2018 10:36:00 AM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.676		0.000185	0.00400	mg/L	254864	1
Nickel	0.396		0.000210	0.0200	mg/L	254864	1
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Pyrene	0.058		0.015	0.050	ug/L	254837	1
Client Sample ID: MW-306D-0118				**Lab ID:** 1801K21-003			
Collection Date: 1/23/2018 12:02:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.670		0.000185	0.00400	mg/L	254864	1
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Pyrene	0.076		0.015	0.050	ug/L	254837	1
Client Sample ID: MW-306TZ-0118				**Lab ID:** 1801K21-004			
Collection Date: 1/23/2018 1:12:00 PM				**Matrix:** Groundwater			
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**			
Xylenes, Total	6.9		0.77	5.0	ug/L	255023	1
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.650		0.000185	0.00400	mg/L	254864	1
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Naphthalene	350		0.72	50	ug/L	254837	100
Acenaphthene	18		1.7	10	ug/L	254837	100
Fluorene	2.9		0.019	0.10	ug/L	254837	1
Phenanthrene	1.6		0.022	0.050	ug/L	254837	1
Anthracene	0.35		0.026	0.050	ug/L	254837	1
Fluoranthene	0.18		0.016	0.10	ug/L	254837	1
Pyrene	0.18		0.015	0.050	ug/L	254837	1
Client Sample ID: MW-306BR-0118				**Lab ID:** 1801K21-005			
Collection Date: 1/23/2018 3:12:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.453		0.000185	0.00400	mg/L	254864	1
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Naphthalene	330		0.72	50	ug/L	254837	100
Acenaphthene	14		1.7	10	ug/L	254837	100
Fluorene	2.3		0.019	0.10	ug/L	254837	1
Phenanthrene	1.2		0.022	0.050	ug/L	254837	1
Anthracene	0.25		0.026	0.050	ug/L	254837	1
Pyrene	0.11		0.015	0.050	ug/L	254837	1
Client Sample ID: DUP-2-0118				**Lab ID:** 1801K21-006			
Collection Date: 1/23/2018 12:00:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.451		0.000185	0.00400	mg/L	254864	1
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Naphthalene	360		0.72	50	ug/L	254837	100
Acenaphthene	16		1.7	10	ug/L	254837	100

Analytical Environmental Services, Inc

Date: 6-Feb-18

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: DUP-2-0118				**Lab ID:** 1801K21-006			
Collection Date: 1/23/2018 12:00:00 PM				**Matrix:** Groundwater			
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Fluorene	2.5		0.019	0.10	ug/L	254837	1
Phenanthrene	1.3		0.022	0.050	ug/L	254837	1
Anthracene	0.26		0.026	0.050	ug/L	254837	1
Pyrene	0.12		0.015	0.050	ug/L	254837	1
Client Sample ID: MW-05-0118				**Lab ID:** 1801K21-007			
Collection Date: 1/23/2018 10:22:00 AM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.337		0.000185	0.00400	mg/L	254864	1
Client Sample ID: MW-207-0118				**Lab ID:** 1801K21-008			
Collection Date: 1/23/2018 11:52:00 AM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.251		0.000185	0.00400	mg/L	254864	1
Client Sample ID: MW-508BR-0118				**Lab ID:** 1801K21-009			
Collection Date: 1/23/2018 1:50:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.242		0.000185	0.00400	mg/L	254864	1
Vanadium	0.0149		0.000170	0.0100	mg/L	254864	1
Client Sample ID: MW-12-0118				**Lab ID:** 1801K21-010			
Collection Date: 1/23/2018 3:14:00 PM				**Matrix:** Groundwater			
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**			
Benzene	11000		37	500	ug/L	255023	100
Ethylbenzene	2400		13	250	ug/L	255023	50
Toluene	920		20	250	ug/L	255023	50
Xylenes, Total	1700		38	250	ug/L	255023	50
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.165		0.000185	0.00400	mg/L	254864	1
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Naphthalene	5500		7.2	500	ug/L	254837	1000
Acenaphthylene	3.3		0.020	1.0	ug/L	254837	1
Acenaphthene	100		1.7	50	ug/L	254837	100
Fluorene	21		1.9	10	ug/L	254837	100
Phenanthrene	13		2.2	5.0	ug/L	254837	100
Anthracene	2.1		0.026	0.050	ug/L	254837	1
Fluoranthene	0.29		0.016	0.10	ug/L	254837	1
Pyrene	0.33		0.015	0.050	ug/L	254837	1
Benz(a)anthracene	0.053		0.018	0.050	ug/L	254837	1
Client Sample ID: DUP-1-0118				**Lab ID:** 1801K21-011			
Collection Date: 1/23/2018 12:00:00 PM				**Matrix:** Groundwater			
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**			
Benzene	11000		37	500	ug/L	255023	100
Ethylbenzene	2400		13	250	ug/L	255023	50
Toluene	940		20	250	ug/L	255023	50
Xylenes, Total	1800		38	250	ug/L	255023	50

Analytical Environmental Services, Inc

Date: 6-Feb-18

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: DUP-1-0118				**Lab ID:** 1801K21-011			
Collection Date: 1/23/2018 12:00:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.160		0.000185	0.00400	mg/L	254864	1
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Naphthalene	6500		7.2	500	ug/L	254837	1000
Acenaphthylene	5.2		0.020	1.0	ug/L	254837	1
Acenaphthene	120		1.7	50	ug/L	254837	100
Fluorene	23		1.9	10	ug/L	254837	100
Phenanthrene	14		2.2	5.0	ug/L	254837	100
Anthracene	2.3		0.026	0.050	ug/L	254837	1
Fluoranthene	0.29		0.016	0.10	ug/L	254837	1
Pyrene	0.36		0.015	0.050	ug/L	254837	1
Client Sample ID: MW-505D-0118				**Lab ID:** 1801K21-012			
Collection Date: 1/23/2018 9:53:00 AM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.333		0.000185	0.00400	mg/L	254864	1
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Naphthalene	130		0.72	50	ug/L	254837	100
Acenaphthene	93		1.7	50	ug/L	254837	100
Fluorene	1.6		0.019	0.10	ug/L	254837	1
Phenanthrene	1.4		0.022	0.050	ug/L	254837	1
Anthracene	0.28		0.026	0.050	ug/L	254837	1
Fluoranthene	0.45		0.016	0.10	ug/L	254837	1
Pyrene	0.69		0.015	0.050	ug/L	254837	1
Client Sample ID: MW-304-0118				**Lab ID:** 1801K21-013			
Collection Date: 1/23/2018 11:11:00 AM				**Matrix:** Groundwater			
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**			
Benzene	300		3.7	50	ug/L	255023	10
Xylenes, Total	5.3		0.77	5.0	ug/L	255023	1
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.326		0.000185	0.00400	mg/L	254864	1
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Naphthalene	220		0.72	50	ug/L	254837	100
Acenaphthene	250		1.7	50	ug/L	254837	100
Fluorene	2.9		0.019	0.10	ug/L	254837	1
Phenanthrene	1.4		0.022	0.050	ug/L	254837	1
Anthracene	0.28		0.026	0.050	ug/L	254837	1
Fluoranthene	0.29		0.016	0.10	ug/L	254837	1
Pyrene	0.36		0.015	0.050	ug/L	254837	1
Client Sample ID: MW-602-0118				**Lab ID:** 1801K21-014			
Collection Date: 1/23/2018 12:33:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.343		0.000185	0.00400	mg/L	254864	1
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Acenaphthene	1.6		0.017	0.50	ug/L	254837	1

Analytical Environmental Services, Inc

Date: 6-Feb-18

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: MW-602-0118				**Lab ID:** 1801K21-014			
Collection Date: 1/23/2018 12:33:00 PM				**Matrix:** Groundwater			
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Fluorene	0.12		0.019	0.10	ug/L	254837	1
Anthracene	0.19		0.026	0.050	ug/L	254837	1
Pyrene	0.082		0.015	0.050	ug/L	254837	1
Client Sample ID: MW-303-0118				**Lab ID:** 1801K21-015			
Collection Date: 1/23/2018 2:35:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.0625		0.000185	0.00400	mg/L	254864	1
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Anthracene	0.43		0.026	0.050	ug/L	254837	1
Fluoranthene	0.46		0.016	0.10	ug/L	254837	1
Pyrene	1.3		0.015	0.050	ug/L	254837	1
Client Sample ID: MW-309BR-0118				**Lab ID:** 1801K21-016			
Collection Date: 1/23/2018 4:30:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.310		0.000185	0.00400	mg/L	254864	1

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **AMEC Foster Wheeler** AES Work Order Number: **1801K21**

2. Carrier: FedEx ■ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other ____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	●	○	○		
5.	Custody seals intact on shipping container?	●	○	○		
6.	Temperature blanks present?	●	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	●	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	●	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	●	○	○		
10.	Sampler name and/or signature on COC?	●	○	○		
11.	Were all samples received within holding time?	●	○	○		
12.	TAT marked on the COC?	●	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 0.4 °C Cooler 2 Temperature 0.8 °C Cooler 3 Temperature 1.2 °C Cooler 4 Temperature 0.9 °C

14. Cooler 5 Temperature ____ °C Cooler 6 Temperature ____ °C Cooler 7 Temperature ____ °C Cooler 8 Temperature ____ °C

15. Comments: ____

I certify that I have completed sections 1-15 (dated initials). KH 1/25/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	●	○	○		
17.	Custody seals present on sample containers?	○	●	○		
18.	Custody seals intact on sample containers?	○	○	●		
19.	Do sample container labels match the COC?	●	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	●	○	○		
21.	Were all of the samples listed on the COC received?	●	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	●	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	●	○	○		
24.	Were samples received in appropriate containers?	●	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	●	○	○		
26.	Were trip blanks submitted?	●	○	○	listed on COC ■ not listed on COC ☐	

27. Comments: ____

I certify that I have completed sections 16-27 (dated initials). MJ 1/26/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	●	○	○		
29.	Containers meet preservation guidelines?	●	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	●		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MJ 1/26/18

Checklist 6.9.17 Rev 2

Locked

Analytical Environmental Services, Inc

Date: 6-Feb-18

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Lab Order: 1801K21

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1801K21-001A	MW-306SAP-0118	1/23/2018 10:36:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 10:38:00AM	01/30/2018
1801K21-001B	MW-306SAP-0118	1/23/2018 10:36:00AM	Groundwater	Total Metals by ICP/MS		1/29/2018 3:26:00PM	02/01/2018
1801K21-001B	MW-306SAP-0118	1/23/2018 10:36:00AM	Groundwater	TOTAL MERCURY		1/30/2018 12:57:00AM	01/30/2018
1801K21-001C	MW-306SAP-0118	1/23/2018 10:36:00AM	Groundwater	Cyanide		1/31/2018 11:20:00AM	01/31/2018
1801K21-001D	MW-306SAP-0118	1/23/2018 10:36:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/29/2018
1801K21-002A	TB-01-0118	1/23/2018 9:30:00AM	Aqueous	Volatile Organic Compounds by GC/MS		1/30/2018 10:38:00AM	01/30/2018
1801K21-003A	MW-306D-0118	1/23/2018 12:02:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 10:38:00AM	01/30/2018
1801K21-003B	MW-306D-0118	1/23/2018 12:02:00PM	Groundwater	Total Metals by ICP/MS		1/29/2018 3:26:00PM	02/01/2018
1801K21-003B	MW-306D-0118	1/23/2018 12:02:00PM	Groundwater	TOTAL MERCURY		1/30/2018 12:57:00AM	01/30/2018
1801K21-003C	MW-306D-0118	1/23/2018 12:02:00PM	Groundwater	Cyanide		1/31/2018 11:20:00AM	01/31/2018
1801K21-003D	MW-306D-0118	1/23/2018 12:02:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/29/2018
1801K21-004A	MW-306TZ-0118	1/23/2018 1:12:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 10:38:00AM	01/30/2018
1801K21-004B	MW-306TZ-0118	1/23/2018 1:12:00PM	Groundwater	Total Metals by ICP/MS		1/29/2018 3:26:00PM	02/01/2018
1801K21-004B	MW-306TZ-0118	1/23/2018 1:12:00PM	Groundwater	TOTAL MERCURY		1/30/2018 12:57:00AM	01/30/2018
1801K21-004C	MW-306TZ-0118	1/23/2018 1:12:00PM	Groundwater	Cyanide		1/31/2018 11:20:00AM	01/31/2018
1801K21-004D	MW-306TZ-0118	1/23/2018 1:12:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/29/2018
1801K21-004D	MW-306TZ-0118	1/23/2018 1:12:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/31/2018
1801K21-005A	MW-306BR-0118	1/23/2018 3:12:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 10:38:00AM	01/30/2018
1801K21-005B	MW-306BR-0118	1/23/2018 3:12:00PM	Groundwater	Total Metals by ICP/MS		1/29/2018 3:26:00PM	02/01/2018
1801K21-005B	MW-306BR-0118	1/23/2018 3:12:00PM	Groundwater	TOTAL MERCURY		1/30/2018 12:57:00AM	01/30/2018
1801K21-005C	MW-306BR-0118	1/23/2018 3:12:00PM	Groundwater	Cyanide		1/31/2018 11:20:00AM	01/31/2018
1801K21-005D	MW-306BR-0118	1/23/2018 3:12:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/29/2018
1801K21-005D	MW-306BR-0118	1/23/2018 3:12:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/31/2018
1801K21-006A	DUP-2-0118	1/23/2018 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 10:38:00AM	01/30/2018
1801K21-006B	DUP-2-0118	1/23/2018 12:00:00PM	Groundwater	Total Metals by ICP/MS		1/29/2018 3:26:00PM	02/01/2018
1801K21-006B	DUP-2-0118	1/23/2018 12:00:00PM	Groundwater	TOTAL MERCURY		1/30/2018 12:57:00AM	01/30/2018
1801K21-006C	DUP-2-0118	1/23/2018 12:00:00PM	Groundwater	Cyanide		1/31/2018 11:20:00AM	01/31/2018
1801K21-006D	DUP-2-0118	1/23/2018 12:00:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/29/2018
1801K21-006D	DUP-2-0118	1/23/2018 12:00:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/31/2018

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Lab Order: 1801K21

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1801K21-007A	MW-05-0118	1/23/2018 10:22:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 10:38:00AM	01/30/2018
1801K21-007B	MW-05-0118	1/23/2018 10:22:00AM	Groundwater	Total Metals by ICP/MS		1/29/2018 3:26:00PM	02/01/2018
1801K21-007B	MW-05-0118	1/23/2018 10:22:00AM	Groundwater	TOTAL MERCURY		1/30/2018 12:57:00AM	01/30/2018
1801K21-007C	MW-05-0118	1/23/2018 10:22:00AM	Groundwater	Cyanide		1/31/2018 11:20:00AM	01/31/2018
1801K21-007D	MW-05-0118	1/23/2018 10:22:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/29/2018
1801K21-008A	MW-207-0118	1/23/2018 11:52:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 10:38:00AM	01/30/2018
1801K21-008B	MW-207-0118	1/23/2018 11:52:00AM	Groundwater	Total Metals by ICP/MS		1/29/2018 3:26:00PM	02/01/2018
1801K21-008B	MW-207-0118	1/23/2018 11:52:00AM	Groundwater	TOTAL MERCURY		1/30/2018 12:57:00AM	01/30/2018
1801K21-008C	MW-207-0118	1/23/2018 11:52:00AM	Groundwater	Cyanide		1/31/2018 11:20:00AM	01/31/2018
1801K21-008D	MW-207-0118	1/23/2018 11:52:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/29/2018
1801K21-009A	MW-508BR-0118	1/23/2018 1:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 10:38:00AM	01/30/2018
1801K21-009B	MW-508BR-0118	1/23/2018 1:50:00PM	Groundwater	Total Metals by ICP/MS		1/29/2018 3:26:00PM	02/01/2018
1801K21-009B	MW-508BR-0118	1/23/2018 1:50:00PM	Groundwater	TOTAL MERCURY		1/30/2018 12:57:00AM	01/30/2018
1801K21-009C	MW-508BR-0118	1/23/2018 1:50:00PM	Groundwater	Cyanide		1/31/2018 11:20:00AM	01/31/2018
1801K21-009D	MW-508BR-0118	1/23/2018 1:50:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/29/2018
1801K21-010A	MW-12-0118	1/23/2018 3:14:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 10:38:00AM	01/30/2018
1801K21-010A	MW-12-0118	1/23/2018 3:14:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 10:38:00AM	01/31/2018
1801K21-010B	MW-12-0118	1/23/2018 3:14:00PM	Groundwater	Total Metals by ICP/MS		1/29/2018 3:26:00PM	02/01/2018
1801K21-010B	MW-12-0118	1/23/2018 3:14:00PM	Groundwater	TOTAL MERCURY		1/30/2018 12:57:00AM	01/30/2018
1801K21-010C	MW-12-0118	1/23/2018 3:14:00PM	Groundwater	Cyanide		1/31/2018 11:20:00AM	01/31/2018
1801K21-010D	MW-12-0118	1/23/2018 3:14:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/29/2018
1801K21-010D	MW-12-0118	1/23/2018 3:14:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/31/2018
1801K21-011A	DUP-1-0118	1/23/2018 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 10:38:00AM	01/30/2018
1801K21-011A	DUP-1-0118	1/23/2018 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 10:38:00AM	01/31/2018
1801K21-011B	DUP-1-0118	1/23/2018 12:00:00PM	Groundwater	Total Metals by ICP/MS		1/29/2018 3:26:00PM	02/01/2018
1801K21-011B	DUP-1-0118	1/23/2018 12:00:00PM	Groundwater	TOTAL MERCURY		1/30/2018 12:57:00AM	01/30/2018
1801K21-011C	DUP-1-0118	1/23/2018 12:00:00PM	Groundwater	Cyanide		1/31/2018 11:20:00AM	01/31/2018
1801K21-011D	DUP-1-0118	1/23/2018 12:00:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/29/2018
1801K21-011D	DUP-1-0118	1/23/2018 12:00:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/31/2018

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Lab Order: 1801K21

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1801K21-012A	MW-505D-0118	1/23/2018 9:53:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 10:38:00AM	01/30/2018
1801K21-012B	MW-505D-0118	1/23/2018 9:53:00AM	Groundwater	Total Metals by ICP/MS		1/29/2018 3:26:00PM	02/01/2018
1801K21-012B	MW-505D-0118	1/23/2018 9:53:00AM	Groundwater	TOTAL MERCURY		1/30/2018 12:57:00AM	01/30/2018
1801K21-012C	MW-505D-0118	1/23/2018 9:53:00AM	Groundwater	Cyanide		1/31/2018 11:20:00AM	01/31/2018
1801K21-012D	MW-505D-0118	1/23/2018 9:53:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/29/2018
1801K21-012D	MW-505D-0118	1/23/2018 9:53:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/31/2018
1801K21-013A	MW-304-0118	1/23/2018 11:11:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 10:38:00AM	01/30/2018
1801K21-013B	MW-304-0118	1/23/2018 11:11:00AM	Groundwater	Total Metals by ICP/MS		1/29/2018 3:26:00PM	02/01/2018
1801K21-013B	MW-304-0118	1/23/2018 11:11:00AM	Groundwater	TOTAL MERCURY		1/30/2018 12:57:00AM	01/30/2018
1801K21-013C	MW-304-0118	1/23/2018 11:11:00AM	Groundwater	Cyanide		1/31/2018 11:20:00AM	01/31/2018
1801K21-013D	MW-304-0118	1/23/2018 11:11:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/29/2018
1801K21-013D	MW-304-0118	1/23/2018 11:11:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/31/2018
1801K21-014A	MW-602-0118	1/23/2018 12:33:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 10:38:00AM	01/30/2018
1801K21-014B	MW-602-0118	1/23/2018 12:33:00PM	Groundwater	Total Metals by ICP/MS		1/29/2018 3:26:00PM	02/01/2018
1801K21-014B	MW-602-0118	1/23/2018 12:33:00PM	Groundwater	TOTAL MERCURY		1/30/2018 12:57:00AM	01/30/2018
1801K21-014C	MW-602-0118	1/23/2018 12:33:00PM	Groundwater	Cyanide		1/31/2018 11:20:00AM	01/31/2018
1801K21-014D	MW-602-0118	1/23/2018 12:33:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/29/2018
1801K21-015A	MW-303-0118	1/23/2018 2:35:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 10:38:00AM	01/30/2018
1801K21-015B	MW-303-0118	1/23/2018 2:35:00PM	Groundwater	Total Metals by ICP/MS		1/29/2018 3:26:00PM	02/01/2018
1801K21-015B	MW-303-0118	1/23/2018 2:35:00PM	Groundwater	TOTAL MERCURY		1/30/2018 12:57:00AM	01/30/2018
1801K21-015C	MW-303-0118	1/23/2018 2:35:00PM	Groundwater	Cyanide		1/31/2018 11:20:00AM	01/31/2018
1801K21-015D	MW-303-0118	1/23/2018 2:35:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/29/2018
1801K21-016A	MW-309BR-0118	1/23/2018 4:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 10:38:00AM	01/30/2018
1801K21-016B	MW-309BR-0118	1/23/2018 4:30:00PM	Groundwater	Total Metals by ICP/MS		1/29/2018 3:26:00PM	02/01/2018
1801K21-016B	MW-309BR-0118	1/23/2018 4:30:00PM	Groundwater	TOTAL MERCURY		1/30/2018 12:57:00AM	01/30/2018
1801K21-016C	MW-309BR-0118	1/23/2018 4:30:00PM	Groundwater	Cyanide		1/31/2018 11:20:00AM	01/31/2018
1801K21-016D	MW-309BR-0118	1/23/2018 4:30:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/29/2018

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K21

ANALYTICAL QC SUMMARY REPORT

BatchID: 254837

Sample ID: **MB-254837**	Client ID:		Units: **ug/L**	Prep Date: **01/29/2018**	Run No: **361842**
SampleType: **MBLK**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **254837**	Analysis Date: **01/29/2018**	Seq No: **7992590**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	2.148	0	2.000		107	59.9	128				

Sample ID: **LCS-254837**	Client ID:		Units: **ug/L**	Prep Date: **01/29/2018**	Run No: **361842**
SampleType: **LCS**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **254837**	Analysis Date: **01/29/2018**	Seq No: **7992591**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.946	0.50	2.000		97.3	64.7	120				
Acenaphthylene	1.962	1.0	2.000		98.1	63.2	120				
Anthracene	2.102	0.050	2.000		105	69.3	125				
Benz(a)anthracene	2.249	0.050	2.000		112	71.1	141				
Benzo(a)pyrene	2.099	0.050	2.000		105	67.2	131				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K21

ANALYTICAL QC SUMMARY REPORT

BatchID: 254837

Sample ID: **LCS-254837** Client ID: Units: **ug/L** Prep Date: **01/29/2018** Run No: **361842**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **254837** Analysis Date: **01/29/2018** Seq No: **7992591**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(b)fluoranthene	2.175	0.10	2.000		109	66.1	134				
Benzo(g,h,i)perylene	1.808	0.10	2.000		90.4	66.1	128				
Benzo(k)fluoranthene	2.180	0.050	2.000		109	67.7	133				
Chrysene	2.389	0.050	2.000		119	71.3	137				
Dibenz(a,h)anthracene	1.621	0.10	2.000		81.0	59.7	125				
Fluoranthene	2.149	0.10	2.000		107	72.3	129				
Fluorene	1.997	0.10	2.000		99.8	69.2	120				
Indeno(1,2,3-cd)pyrene	1.839	0.050	2.000		92.0	66.4	127				
Naphthalene	1.779	0.50	2.000		88.9	56.8	120				
Phenanthrene	2.017	0.050	2.000		101	70.9	120				
Pyrene	2.366	0.050	2.000	0.03070	117	68.4	138				
Surr: 4-Terphenyl-d14	2.283	0	2.000		114	59.9	128				

Sample ID: **1801K95-006CMS** Client ID: Units: **ug/L** Prep Date: **01/29/2018** Run No: **361918**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **254837** Analysis Date: **01/30/2018** Seq No: **7994744**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	9.053	0.50	2.000	6.648	120	61.4	120				S
Acenaphthylene	2.030	1.0	2.000		101	63.9	120				
Anthracene	2.142	0.050	2.000	0.04705	105	65.3	120				
Benz(a)anthracene	2.177	0.050	2.000		109	76.7	124				
Benzo(a)pyrene	1.828	0.050	2.000		91.4	58.5	120				
Benzo(b)fluoranthene	1.751	0.10	2.000		87.5	52.6	121				
Benzo(g,h,i)perylene	1.468	0.10	2.000		73.4	44.2	120				
Benzo(k)fluoranthene	2.073	0.050	2.000		104	59	120				
Chrysene	2.334	0.050	2.000		117	65	122				
Dibenz(a,h)anthracene	1.311	0.10	2.000		65.5	38.2	120				
Fluoranthene	2.201	0.10	2.000		110	71.7	118				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K21

ANALYTICAL QC SUMMARY REPORT

BatchID: 254837

Sample ID: **1801K95-006CMS**	Client ID:		Units: **ug/L**	Prep Date: **01/29/2018**	Run No: **361918**
SampleType: **MS**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **254837**	Analysis Date: **01/30/2018**	Seq No: **7994744**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Fluorene	2.036	0.10	2.000		102	65.6	120				
Indeno(1,2,3-cd)pyrene	1.462	0.050	2.000		73.1	46.6	120				
Naphthalene	2.052	0.50	2.000	0.01993	102	57.3	120				
Phenanthrene	2.040	0.050	2.000		102	65.6	120				
Pyrene	2.436	0.050	2.000	0.1082	116	69	121				
Surr: 4-Terphenyl-d14	2.164	0	2.000		108	59.9	128				

Sample ID: **1801K95-006CMSD**	Client ID:		Units: **ug/L**	Prep Date: **01/29/2018**	Run No: **361918**
SampleType: **MSD**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **254837**	Analysis Date: **01/30/2018**	Seq No: **7994745**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	7.918	0.50	2.000	6.648	63.5	61.4	120	9.085	13.7	24.4	
Acenaphthylene	1.816	1.0	2.000		90.8	63.9	120	2.054	12.3	27.9	
Anthracene	1.899	0.050	2.000	0.04705	92.6	65.3	120	2.124	11.1	26.3	
Benz(a)anthracene	1.952	0.050	2.000		97.6	76.7	124	2.252	14.3	25	
Benzo(a)pyrene	1.708	0.050	2.000		85.4	58.5	120	1.866	8.84	23.5	
Benzo(b)fluoranthene	1.601	0.10	2.000		80.0	52.6	121	1.915	17.9	24	
Benzo(g,h,i)perylene	1.403	0.10	2.000		70.2	44.2	120	1.524	8.24	32.1	
Benzo(k)fluoranthene	1.834	0.050	2.000		91.7	59	120	1.995	8.41	19.6	
Chrysene	2.083	0.050	2.000		104	65	122	2.323	10.9	23	
Dibenz(a,h)anthracene	1.210	0.10	2.000		60.5	38.2	120	1.391	13.9	31.7	
Fluoranthene	1.962	0.10	2.000		98.1	71.7	118	2.179	10.5	23	
Fluorene	1.810	0.10	2.000		90.5	65.6	120	2.094	14.6	25	
Indeno(1,2,3-cd)pyrene	1.364	0.050	2.000		68.2	46.6	120	1.523	11.0	32.4	
Naphthalene	1.843	0.50	2.000	0.01993	91.2	57.3	120	2.041	10.2	27.2	
Phenanthrene	1.800	0.050	2.000		90.0	65.6	120	2.036	12.3	23.5	
Pyrene	2.196	0.050	2.000	0.1082	104	69	121	2.456	11.2	23.8	
Surr: 4-Terphenyl-d14	1.957	0	2.000		97.9	59.9	128	2.208	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 6-Feb-18

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K21

ANALYTICAL QC SUMMARY REPORT

BatchID: 254864

Sample ID: **MB-254864** Client ID: Units: **mg/L** Prep Date: **01/29/2018** Run No: **362166**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **254864** Analysis Date: **02/06/2018** Seq No: **8005457**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.00500									
Arsenic	BRL	0.00500									
Barium	BRL	0.0100									
Beryllium	BRL	0.00100									
Cadmium	BRL	0.000700									
Chromium	BRL	0.00500									
Copper	BRL	0.00200									
Lead	BRL	0.00100									
Nickel	BRL	0.00500									
Selenium	BRL	0.00500									
Thallium	BRL	0.00100									
Vanadium	BRL	0.00500									
Zinc	BRL	0.0200									

Sample ID: **LCS-254864** Client ID: Units: **mg/L** Prep Date: **01/29/2018** Run No: **362166**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **254864** Analysis Date: **02/06/2018** Seq No: **8005458**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1062	0.00500	0.1000	0.0003930	106	80	120				
Arsenic	0.1128	0.00500	0.1000	0.0006781	112	80	120				
Barium	0.1027	0.0100	0.1000		103	80	120				
Beryllium	0.09746	0.00100	0.1000		97.5	80	120				
Cadmium	0.1057	0.000700	0.1000		106	80	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K21

ANALYTICAL QC SUMMARY REPORT

BatchID: 254864

Sample ID: **LCS-254864** Client ID: Units: **mg/L** Prep Date: **01/29/2018** Run No: **362166**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **254864** Analysis Date: **02/06/2018** Seq No: **8005458**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	0.1074	0.00500	0.1000	0.0006256	107	80	120				
Copper	0.09530	0.00200	0.1000	0.0004447	94.9	80	120				
Lead	0.1037	0.00100	0.1000		104	80	120				
Nickel	0.1086	0.00500	0.1000		109	80	120				
Selenium	0.1183	0.00500	0.1000	0.0007072	118	80	120				
Thallium	0.1032	0.00100	0.1000		103	80	120				
Vanadium	0.1060	0.00500	0.1000		106	80	120				
Zinc	0.1243	0.0200	0.1000	0.01397	110	80	120				

Sample ID: **1801K21-001BMS** Client ID: **MW-306SAP-0118** Units: **mg/L** Prep Date: **01/29/2018** Run No: **362166**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **254864** Analysis Date: **02/01/2018** Seq No: **8000847**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.09300	0.00600	0.1000		93.0	75	125				
Arsenic	0.09888	0.0500	0.1000	0.0007553	98.1	75	125				
Barium	0.7655	0.00400	0.1000	0.6762	89.3	75	125				
Beryllium	0.08900	0.00400	0.1000		89.0	75	125				
Cadmium	0.09010	0.00500	0.1000		90.1	75	125				
Chromium	0.08828	0.0100	0.1000	0.001882	86.4	75	125				
Copper	0.09165	0.0100	0.1000	0.001468	90.2	75	125				
Lead	0.09404	0.0100	0.1000		94.0	75	125				
Nickel	0.4774	0.0200	0.1000	0.3961	81.4	75	125				
Selenium	0.1001	0.0200	0.1000		100	75	125				
Thallium	0.09481	0.00200	0.1000		94.8	75	125				
Vanadium	0.08912	0.0100	0.1000		89.1	75	125				
Zinc	0.1020	0.0200	0.1000	0.01231	89.7	75	125				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K21

ANALYTICAL QC SUMMARY REPORT

BatchID: 254864

Sample ID: **1801K21-001BMSD** Client ID: **MW-306SAP-0118** Units: **mg/L** Prep Date: **01/29/2018** Run No: **362166**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **254864** Analysis Date: **02/01/2018** Seq No: **8000848**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.09250	0.00600	0.1000		92.5	75	125	0.09300	0.541	20	
Arsenic	0.09770	0.0500	0.1000	0.0007553	96.9	75	125	0.09888	1.20	20	
Barium	0.7515	0.00400	0.1000	0.6762	75.4	75	125	0.7655	1.84	20	
Beryllium	0.08442	0.00400	0.1000		84.4	75	125	0.08900	5.28	20	
Cadmium	0.09021	0.00500	0.1000		90.2	75	125	0.09010	0.121	20	
Chromium	0.08619	0.0100	0.1000	0.001882	84.3	75	125	0.08828	2.39	20	
Copper	0.08991	0.0100	0.1000	0.001468	88.4	75	125	0.09165	1.92	20	
Lead	0.09376	0.0100	0.1000		93.8	75	125	0.09404	0.300	20	
Nickel	0.4751	0.0200	0.1000	0.3961	79.0	75	125	0.4774	0.491	20	
Selenium	0.1000	0.0200	0.1000		100	75	125	0.1001	0.032	20	
Thallium	0.09455	0.00200	0.1000		94.6	75	125	0.09481	0.278	20	
Vanadium	0.08822	0.0100	0.1000		88.2	75	125	0.08912	1.02	20	
Zinc	0.1053	0.0200	0.1000	0.01231	93.0	75	125	0.1020	3.21	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K21

ANALYTICAL QC SUMMARY REPORT

BatchID: 254952

Sample ID: **MB-254952**	Client ID:				Units: **mg/L**		Prep Date: **01/30/2018**		Run No: **361920**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**				BatchID: **254952**		Analysis Date: **01/30/2018**		Seq No: **7993455**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-254952**	Client ID:				Units: **mg/L**		Prep Date: **01/30/2018**		Run No: **361920**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**				BatchID: **254952**		Analysis Date: **01/30/2018**		Seq No: **7993456**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004263	0.00020	0.0040		107	80	120				

Sample ID: **1801K21-001BMS**	Client ID: **MW-306SAP-0118**				Units: **mg/L**		Prep Date: **01/30/2018**		Run No: **361920**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**				BatchID: **254952**		Analysis Date: **01/30/2018**		Seq No: **7993461**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004234	0.00020	0.0040		106	70	130				

Sample ID: **1801K21-001BMSD**	Client ID: **MW-306SAP-0118**				Units: **mg/L**		Prep Date: **01/30/2018**		Run No: **361920**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**				BatchID: **254952**		Analysis Date: **01/30/2018**		Seq No: **7993462**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004184	0.00020	0.0040		105	70	130	0.004234	1.19	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K21

ANALYTICAL QC SUMMARY REPORT

BatchID: 255015

Sample ID: **MB-255015**	Client ID:					Units: **mg/L**		Prep Date: **01/30/2018**		Run No: **361957**	
SampleType: **MBLK**	TestCode: **Cyanide SW9014**					BatchID: **255015**		Analysis Date: **01/30/2018**		Seq No: **7994389**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	BRL	0.010									

Sample ID: **LCS-255015**	Client ID:					Units: **mg/L**		Prep Date: **01/30/2018**		Run No: **361957**	
SampleType: **LCS**	TestCode: **Cyanide SW9014**					BatchID: **255015**		Analysis Date: **01/30/2018**		Seq No: **7994390**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2590	0.010	0.2500		104	85	115				

Sample ID: **1801J61-006DMS**	Client ID:					Units: **mg/L**		Prep Date: **01/30/2018**		Run No: **361957**	
SampleType: **MS**	TestCode: **Cyanide SW9014**					BatchID: **255015**		Analysis Date: **01/30/2018**		Seq No: **7994395**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2530	0.010	0.2500		101	70	130				

Sample ID: **1801J61-006DMSD**	Client ID:					Units: **mg/L**		Prep Date: **01/30/2018**		Run No: **361957**	
SampleType: **MSD**	TestCode: **Cyanide SW9014**					BatchID: **255015**		Analysis Date: **01/30/2018**		Seq No: **7994396**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2510	0.010	0.2500		100	70	130	0.2530	0.794	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K21

ANALYTICAL QC SUMMARY REPORT

BatchID: 255023

Sample ID: **MB-255023** Client ID: Units: **ug/L** Prep Date: **01/30/2018** Run No: **361940**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **255023** Analysis Date: **01/30/2018** Seq No: **7994034**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acetone	BRL	50									
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Ethylbenzene	BRL	5.0									
Methylene chloride	BRL	5.0									
Toluene	BRL	5.0									
Trichloroethene	BRL	5.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	46.51	0	50.00		93.0	68	127				
Surr: Dibromofluoromethane	56.05	0	50.00		112	84.4	122				
Surr: Toluene-d8	53.36	0	50.00		107	80.1	116				

Sample ID: **LCS-255023** Client ID: Units: **ug/L** Prep Date: **01/30/2018** Run No: **361940**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **255023** Analysis Date: **01/30/2018** Seq No: **7994720**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	51.95	5.0	50.00		104	73.7	126				
Toluene	53.36	5.0	50.00		107	76.8	125				
Trichloroethene	50.23	5.0	50.00		100	70.9	124				
Surr: 4-Bromofluorobenzene	48.72	0	50.00		97.4	68	127				
Surr: Dibromofluoromethane	51.02	0	50.00		102	84.4	122				
Surr: Toluene-d8	52.30	0	50.00		105	80.1	116				

Sample ID: **1801K21-010AMS** Client ID: **MW-12-0118** Units: **ug/L** Prep Date: **01/30/2018** Run No: **361940**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **255023** Analysis Date: **01/30/2018** Seq No: **7994731**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	13410	250	2500	10350	122	66.1	137				E

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K21

ANALYTICAL QC SUMMARY REPORT

BatchID: 255023

Sample ID: **1801K21-010AMS**	Client ID: **MW-12-0118**	Units: **ug/L**	Prep Date: **01/30/2018**	Run No: **361940**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**	BatchID: **255023**	Analysis Date: **01/30/2018**	Seq No: **7994731**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Toluene	3682	250	2500	915.0	111	63.8	141				
Trichloroethene	2433	250	2500		97.3	70.6	128				
Surr: 4-Bromofluorobenzene	2598	0	2500		104	68	127				
Surr: Dibromofluoromethane	2506	0	2500		100	84.4	122				
Surr: Toluene-d8	2580	0	2500		103	80.1	116				

Sample ID: **1801K21-010AMSD**	Client ID: **MW-12-0118**	Units: **ug/L**	Prep Date: **01/30/2018**	Run No: **361940**
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**	BatchID: **255023**	Analysis Date: **01/30/2018**	Seq No: **7994732**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	13650	250	2500	10350	132	66.1	137	13410	1.80	20	E
Toluene	3776	250	2500	915.0	114	63.8	141	3682	2.49	20	
Trichloroethene	2486	250	2500		99.4	70.6	128	2433	2.13	20	
Surr: 4-Bromofluorobenzene	2568	0	2500		103	68	127	2598	0	0	
Surr: Dibromofluoromethane	2528	0	2500		101	84.4	122	2506	0	0	
Surr: Toluene-d8	2593	0	2500		104	80.1	116	2580	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 08, 2018

John Quinn
AMEC Foster Wheeler

1075 Big Shanty Rd NW
Kennesaw GA 30144

RE: AGL - Augusta

Dear John Quinn: Order No: 1801K95

Analytical Environmental Services, Inc. received 12 samples on 1/25/2018 9:55:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.
These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ioana Pacurar

Ioana Pacurar

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 180K95

Date: 1/24/18 Page 1 of 1

COMPANY:	ADDRESS:
Wood E+I	1075 Big Shanty Rd, Ste 100 Kennesaw, GA 30144
PHONE: 770-421-3400	EMAIL:
SAMPLED BY: D Howard, M Andrews, T Parker	SIGNATURE: Daniel Howard

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED: VOC 8260	Tmetals+Hg 6020/7470A	PAHs SIM 8270C	CN 9014	PRESERVATION (see codes): HCl	N	I	NaOH	REMARKS	Number of Containers
1	TB-02-0118	1/24/18	0930	X		W	2									2
2	MW-310SAP-0118		0948	X		GW	2	1	2	1						6
3	MW-310BR-0118		1145	X		GW	2	1	2	1						6
4	MW-402S-0118		1350	X		GW	2	1	2	1						6
5	MW-402D-0118		1457	X		GW	2	1	2	1						6
6	MW-513BR-0118		1030	X		GW	2	1	2	1						6
7	MW-513BR-0118 MS/MSD		1030	X		GW	4	2	4	2						12
8	MW-315-0118		1252	X		GW	2	1	2	1						6
9	MW-318-0118		1442	X		GW	2	1	2	1						6
10	MW-311-0118		0935	X		GW	2	1	2	1						6
11	MW-206-0118		1052	X		GW	2	1	2	1						6
12	MW-22-0118		1237	X		GW	2	1	2	1						6
13	MW-214-0118		1412	X		GW	2	1	2	1						6
14	Temp Blank															

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Daniel Howard	1/24/18 1745	1.	1/25/18 9:55
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS: See attached sheet For reporting limits

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client (FedEx) UPS US mail courier Greyhound
other: _____

PROJECT INFORMATION
PROJECT NAME: AGL Augusta
PROJECT #: 6122150235.01
SITE ADDRESS: 8th St & Walton Way Augusta, GA
SEND REPORT TO: John Quinn
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time (TAT) Request
- [X] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush (auth req.)
- [ ] Other _____

STATE PROGRAM (if any): _____
E-mail? [ ] Fax? [ ]
DATA PACKAGE: I ○ II ● III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Table 2-3
Site-Specific Constituents of Interest
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Volatile Organic Compounds (VOCs), (SW-846 Method 8260B)		
Acetone - 50 ug/L	Ethylbenzene - 5 ug/L	Trichloroethylene - 5 ug/L
Benzene - 5 ug/L	Methylene Chloride - 5 ug/L	Xylenes (total) - 5 ug/L
Carbon Disulfide - 5 ug/L	Toluene - 5 ug/L	
Polynuclear Aromatic Hydrocarbons (SIM SW-846 Method 8270D)		
Acenaphthene - 0.5 ug/L	Benzo(g,h,i)perylene - 0.1 ug/L	Indeno(1,2,3-cd)pyrene- 0.05 ug/L
Acenaphthylene - 1 ug/L	Benzo(k)fluoranthene - 0.05 ug/L	Naphthalene- 0.5 ug/L
Anthracene - 0.05 ug/L	Chrysene - 0.05 ug/L	Phenanthrene- 0.05 ug/L
Benzo(a)anthracene - 0.05 ug/L	Dibenzo(a,h)anthracene - 0.1 ug/L	Pyrene- 0.05 ug/L
Benzo(a)pyrene - 0.05 ug/L	Fluoranthene- 0.1 ug/L	
Benzo(b)fluoranthene - 0.1 ug/L	Fluorene- 0.1 ug/L	
Inorganics (SW-846 Methods ~~6010C,~~ 7470A, 6020, and ~~9010/9012~~ 9014)		
Antimony -0 .006 mg/L	Copper - 0.01 mg/L	Vanadium - 0.01 mg/L
Arsenic - 0.05 mg/L	Lead - 0.01 mg/L	Zinc - 0.02 mg/L
Barium - 0.004 mg/L	Mercury-0.0002 mg/L	
Beryllium - 0.004 mg/L	Nickel - 0.02 mg/L	Cyanide - 0.01 mg/L
Cadmium - 0.005 mg/L	Selenium - 0.02 mg/L	
Chromium - 0.01 mg/L	Thallium - 0.002 mg/L	

DLH 7/19/16

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	TB-02-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 9:30:00 AM
Lab ID:	1801K95-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Acetone	BRL	50		ug/L	254970	1	01/29/2018 17:02	NP
Benzene	BRL	5.0		ug/L	254970	1	01/29/2018 17:02	NP
Carbon disulfide	BRL	5.0		ug/L	254970	1	01/29/2018 17:02	NP
Ethylbenzene	BRL	5.0		ug/L	254970	1	01/29/2018 17:02	NP
Methylene chloride	BRL	5.0		ug/L	254970	1	01/29/2018 17:02	NP
Trichloroethene	BRL	5.0		ug/L	254970	1	01/29/2018 17:02	NP
Toluene	BRL	5.0		ug/L	254970	1	01/29/2018 17:02	NP
Xylenes, Total	BRL	5.0		ug/L	254970	1	01/29/2018 17:02	NP
Surr: 4-Bromofluorobenzene	73.1	68-127		%REC	254970	1	01/29/2018 17:02	NP
Surr: Dibromofluoromethane	99.2	84.4-122		%REC	254970	1	01/29/2018 17:02	NP
Surr: Toluene-d8	95.8	80.1-116		%REC	254970	1	01/29/2018 17:02	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-310SAP-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 9:48:00 AM
Lab ID:	1801K95-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	254970	1	01/29/2018 21:52	NP
Benzene	BRL	5.0		ug/L	254970	1	01/29/2018 21:52	NP
Carbon disulfide	BRL	5.0		ug/L	254970	1	01/29/2018 21:52	NP
Ethylbenzene	BRL	5.0		ug/L	254970	1	01/29/2018 21:52	NP
Methylene chloride	BRL	5.0		ug/L	254970	1	01/29/2018 21:52	NP
Trichloroethene	BRL	5.0		ug/L	254970	1	01/29/2018 21:52	NP
Toluene	BRL	5.0		ug/L	254970	1	01/29/2018 21:52	NP
Xylenes, Total	BRL	5.0		ug/L	254970	1	01/29/2018 21:52	NP
Surr: 4-Bromofluorobenzene	71.1	68-127		%REC	254970	1	01/29/2018 21:52	NP
Surr: Dibromofluoromethane	102	84.4-122		%REC	254970	1	01/29/2018 21:52	NP
Surr: Toluene-d8	93.5	80.1-116		%REC	254970	1	01/29/2018 21:52	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254865	1	02/06/2018 14:01	DP
Arsenic	BRL	0.0500		mg/L	254865	1	02/06/2018 14:01	DP
Barium	0.0890	0.00400		mg/L	254865	1	02/06/2018 14:01	DP
Beryllium	BRL	0.00400		mg/L	254865	1	02/06/2018 14:01	DP
Cadmium	BRL	0.00500		mg/L	254865	1	02/06/2018 14:01	DP
Chromium	BRL	0.0100		mg/L	254865	1	02/06/2018 14:01	DP
Copper	BRL	0.0100		mg/L	254865	1	02/06/2018 14:01	DP
Lead	BRL	0.0100		mg/L	254865	1	02/06/2018 14:01	DP
Nickel	0.431	0.0200		mg/L	254865	1	02/06/2018 14:01	DP
Selenium	BRL	0.0200		mg/L	254865	1	02/06/2018 14:01	DP
Thallium	BRL	0.00200		mg/L	254865	1	02/06/2018 14:01	DP
Vanadium	BRL	0.0100		mg/L	254865	1	02/06/2018 14:01	DP
Zinc	BRL	0.0200		mg/L	254865	1	02/06/2018 14:01	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254837	1	01/30/2018 00:20	YH
Acenaphthylene	BRL	1.0		ug/L	254837	1	01/30/2018 00:20	YH
Acenaphthene	BRL	0.50		ug/L	254837	1	01/30/2018 00:20	YH
Fluorene	BRL	0.10		ug/L	254837	1	01/30/2018 00:20	YH
Phenanthrene	BRL	0.050		ug/L	254837	1	01/30/2018 00:20	YH
Anthracene	BRL	0.050		ug/L	254837	1	01/30/2018 00:20	YH
Fluoranthene	BRL	0.10		ug/L	254837	1	01/30/2018 00:20	YH
Pyrene	BRL	0.050		ug/L	254837	1	01/30/2018 00:20	YH
Benz(a)anthracene	BRL	0.050		ug/L	254837	1	01/30/2018 00:20	YH
Chrysene	BRL	0.050		ug/L	254837	1	01/30/2018 00:20	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254837	1	01/30/2018 00:20	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254837	1	01/30/2018 00:20	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254837	1	01/30/2018 00:20	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-310SAP-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 9:48:00 AM
Lab ID:	1801K95-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254837	1	01/30/2018 00:20	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254837	1	01/30/2018 00:20	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254837	1	01/30/2018 00:20	YH
Surr: 4-Terphenyl-d14	159	59.9-128	S	%REC	254837	1	01/30/2018 00:20	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255002	1	01/31/2018 06:33	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255015	1	01/31/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-310BR-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 11:45:00 AM
Lab ID:	1801K95-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	254970	1	01/29/2018 22:16	NP
Benzene	BRL	5.0		ug/L	254970	1	01/29/2018 22:16	NP
Carbon disulfide	BRL	5.0		ug/L	254970	1	01/29/2018 22:16	NP
Ethylbenzene	BRL	5.0		ug/L	254970	1	01/29/2018 22:16	NP
Methylene chloride	BRL	5.0		ug/L	254970	1	01/29/2018 22:16	NP
Trichloroethene	BRL	5.0		ug/L	254970	1	01/29/2018 22:16	NP
Toluene	BRL	5.0		ug/L	254970	1	01/29/2018 22:16	NP
Xylenes, Total	BRL	5.0		ug/L	254970	1	01/29/2018 22:16	NP
Surr: 4-Bromofluorobenzene	69.4	68-127		%REC	254970	1	01/29/2018 22:16	NP
Surr: Dibromofluoromethane	98.1	84.4-122		%REC	254970	1	01/29/2018 22:16	NP
Surr: Toluene-d8	88	80.1-116		%REC	254970	1	01/29/2018 22:16	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254865	1	02/06/2018 14:03	DP
Arsenic	BRL	0.0500		mg/L	254865	1	02/06/2018 14:03	DP
Barium	0.286	0.00400		mg/L	254865	1	02/06/2018 14:03	DP
Beryllium	BRL	0.00400		mg/L	254865	1	02/06/2018 14:03	DP
Cadmium	BRL	0.00500		mg/L	254865	1	02/06/2018 14:03	DP
Chromium	BRL	0.0100		mg/L	254865	1	02/06/2018 14:03	DP
Copper	BRL	0.0100		mg/L	254865	1	02/06/2018 14:03	DP
Lead	BRL	0.0100		mg/L	254865	1	02/06/2018 14:03	DP
Nickel	BRL	0.0200		mg/L	254865	1	02/06/2018 14:03	DP
Selenium	BRL	0.0200		mg/L	254865	1	02/06/2018 14:03	DP
Thallium	BRL	0.00200		mg/L	254865	1	02/06/2018 14:03	DP
Vanadium	BRL	0.0100		mg/L	254865	1	02/06/2018 14:03	DP
Zinc	BRL	0.0200		mg/L	254865	1	02/06/2018 14:03	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254837	1	01/30/2018 00:46	YH
Acenaphthylene	BRL	1.0		ug/L	254837	1	01/30/2018 00:46	YH
Acenaphthene	BRL	0.50		ug/L	254837	1	01/30/2018 00:46	YH
Fluorene	BRL	0.10		ug/L	254837	1	01/30/2018 00:46	YH
Phenanthrene	BRL	0.050		ug/L	254837	1	01/30/2018 00:46	YH
Anthracene	BRL	0.050		ug/L	254837	1	01/30/2018 00:46	YH
Fluoranthene	BRL	0.10		ug/L	254837	1	01/30/2018 00:46	YH
Pyrene	BRL	0.050		ug/L	254837	1	01/30/2018 00:46	YH
Benz(a)anthracene	BRL	0.050		ug/L	254837	1	01/30/2018 00:46	YH
Chrysene	BRL	0.050		ug/L	254837	1	01/30/2018 00:46	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254837	1	01/30/2018 00:46	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254837	1	01/30/2018 00:46	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254837	1	01/30/2018 00:46	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-310BR-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 11:45:00 AM
Lab ID:	1801K95-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254837	1	01/30/2018 00:46	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254837	1	01/30/2018 00:46	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254837	1	01/30/2018 00:46	YH
Surr: 4-Terphenyl-d14	134	59.9-128	S	%REC	254837	1	01/30/2018 00:46	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255002	1	01/31/2018 07:00	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255078	1	01/31/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-402S-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 1:50:00 PM
Lab ID:	1801K95-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	254970	1	01/29/2018 22:40	NP
Benzene	BRL	5.0		ug/L	254970	1	01/29/2018 22:40	NP
Carbon disulfide	BRL	5.0		ug/L	254970	1	01/29/2018 22:40	NP
Ethylbenzene	BRL	5.0		ug/L	254970	1	01/29/2018 22:40	NP
Methylene chloride	BRL	5.0		ug/L	254970	1	01/29/2018 22:40	NP
Trichloroethene	BRL	5.0		ug/L	254970	1	01/29/2018 22:40	NP
Toluene	BRL	5.0		ug/L	254970	1	01/29/2018 22:40	NP
Xylenes, Total	BRL	5.0		ug/L	254970	1	01/29/2018 22:40	NP
Surr: 4-Bromofluorobenzene	71	68-127		%REC	254970	1	01/29/2018 22:40	NP
Surr: Dibromofluoromethane	98.7	84.4-122		%REC	254970	1	01/29/2018 22:40	NP
Surr: Toluene-d8	91.5	80.1-116		%REC	254970	1	01/29/2018 22:40	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254865	1	02/06/2018 14:05	DP
Arsenic	BRL	0.0500		mg/L	254865	1	02/06/2018 14:05	DP
Barium	0.0936	0.00400		mg/L	254865	1	02/06/2018 14:05	DP
Beryllium	BRL	0.00400		mg/L	254865	1	02/06/2018 14:05	DP
Cadmium	BRL	0.00500		mg/L	254865	1	02/06/2018 14:05	DP
Chromium	BRL	0.0100		mg/L	254865	1	02/06/2018 14:05	DP
Copper	BRL	0.0100		mg/L	254865	1	02/06/2018 14:05	DP
Lead	BRL	0.0100		mg/L	254865	1	02/06/2018 14:05	DP
Nickel	BRL	0.0200		mg/L	254865	1	02/06/2018 14:05	DP
Selenium	BRL	0.0200		mg/L	254865	1	02/06/2018 14:05	DP
Thallium	BRL	0.00200		mg/L	254865	1	02/06/2018 14:05	DP
Vanadium	BRL	0.0100		mg/L	254865	1	02/06/2018 14:05	DP
Zinc	BRL	0.0200		mg/L	254865	1	02/06/2018 14:05	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254837	1	01/30/2018 01:12	YH
Acenaphthylene	BRL	1.0		ug/L	254837	1	01/30/2018 01:12	YH
Acenaphthene	BRL	0.50		ug/L	254837	1	01/30/2018 01:12	YH
Fluorene	BRL	0.10		ug/L	254837	1	01/30/2018 01:12	YH
Phenanthrene	BRL	0.050		ug/L	254837	1	01/30/2018 01:12	YH
Anthracene	BRL	0.050		ug/L	254837	1	01/30/2018 01:12	YH
Fluoranthene	BRL	0.10		ug/L	254837	1	01/30/2018 01:12	YH
Pyrene	BRL	0.050		ug/L	254837	1	01/30/2018 01:12	YH
Benz(a)anthracene	BRL	0.050		ug/L	254837	1	01/30/2018 01:12	YH
Chrysene	BRL	0.050		ug/L	254837	1	01/30/2018 01:12	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254837	1	01/30/2018 01:12	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254837	1	01/30/2018 01:12	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254837	1	01/30/2018 01:12	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-402S-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 1:50:00 PM
Lab ID:	1801K95-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254837	1	01/30/2018 01:12	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254837	1	01/30/2018 01:12	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254837	1	01/30/2018 01:12	YH
Surr: 4-Terphenyl-d14	148	59.9-128	S	%REC	254837	1	01/30/2018 01:12	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255002	1	01/31/2018 07:04	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255078	1	01/31/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-402D-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 2:57:00 PM
Lab ID:	1801K95-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	254970	1	01/29/2018 23:04	NP
Benzene	BRL	5.0		ug/L	254970	1	01/29/2018 23:04	NP
Carbon disulfide	BRL	5.0		ug/L	254970	1	01/29/2018 23:04	NP
Ethylbenzene	BRL	5.0		ug/L	254970	1	01/29/2018 23:04	NP
Methylene chloride	BRL	5.0		ug/L	254970	1	01/29/2018 23:04	NP
Trichloroethene	BRL	5.0		ug/L	254970	1	01/29/2018 23:04	NP
Toluene	BRL	5.0		ug/L	254970	1	01/29/2018 23:04	NP
Xylenes, Total	BRL	5.0		ug/L	254970	1	01/29/2018 23:04	NP
Surr: 4-Bromofluorobenzene	69.3	68-127		%REC	254970	1	01/29/2018 23:04	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	254970	1	01/29/2018 23:04	NP
Surr: Toluene-d8	90.7	80.1-116		%REC	254970	1	01/29/2018 23:04	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254865	1	02/06/2018 14:20	DP
Arsenic	BRL	0.0500		mg/L	254865	1	02/06/2018 14:20	DP
Barium	0.108	0.00400		mg/L	254865	1	02/06/2018 14:20	DP
Beryllium	BRL	0.00400		mg/L	254865	1	02/06/2018 14:20	DP
Cadmium	BRL	0.00500		mg/L	254865	1	02/06/2018 14:20	DP
Chromium	BRL	0.0100		mg/L	254865	1	02/06/2018 14:20	DP
Copper	BRL	0.0100		mg/L	254865	1	02/06/2018 14:20	DP
Lead	BRL	0.0100		mg/L	254865	1	02/06/2018 14:20	DP
Nickel	BRL	0.0200		mg/L	254865	1	02/06/2018 14:20	DP
Selenium	BRL	0.0200		mg/L	254865	1	02/06/2018 14:20	DP
Thallium	BRL	0.00200		mg/L	254865	1	02/06/2018 14:20	DP
Vanadium	BRL	0.0100		mg/L	254865	1	02/06/2018 14:20	DP
Zinc	BRL	0.0200		mg/L	254865	1	02/06/2018 14:20	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254837	1	01/30/2018 01:39	YH
Acenaphthylene	BRL	1.0		ug/L	254837	1	01/30/2018 01:39	YH
Acenaphthene	BRL	0.50		ug/L	254837	1	01/30/2018 01:39	YH
Fluorene	BRL	0.10		ug/L	254837	1	01/30/2018 01:39	YH
Phenanthrene	BRL	0.050		ug/L	254837	1	01/30/2018 01:39	YH
Anthracene	BRL	0.050		ug/L	254837	1	01/30/2018 01:39	YH
Fluoranthene	BRL	0.10		ug/L	254837	1	01/30/2018 01:39	YH
Pyrene	BRL	0.050		ug/L	254837	1	01/30/2018 01:39	YH
Benz(a)anthracene	BRL	0.050		ug/L	254837	1	01/30/2018 01:39	YH
Chrysene	BRL	0.050		ug/L	254837	1	01/30/2018 01:39	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254837	1	01/30/2018 01:39	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254837	1	01/30/2018 01:39	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254837	1	01/30/2018 01:39	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-402D-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 2:57:00 PM
Lab ID:	1801K95-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254837	1	01/30/2018 01:39	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254837	1	01/30/2018 01:39	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254837	1	01/30/2018 01:39	YH
Surr: 4-Terphenyl-d14	141	59.9-128	S	%REC	254837	1	01/30/2018 01:39	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255002	1	01/31/2018 07:08	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255078	1	01/31/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-513BR-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 10:30:00 AM
Lab ID:	1801K95-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	254970	1	01/29/2018 23:28	NP
Benzene	BRL	5.0		ug/L	254970	1	01/29/2018 23:28	NP
Carbon disulfide	BRL	5.0		ug/L	254970	1	01/29/2018 23:28	NP
Ethylbenzene	BRL	5.0		ug/L	254970	1	01/29/2018 23:28	NP
Methylene chloride	BRL	5.0		ug/L	254970	1	01/29/2018 23:28	NP
Trichloroethene	BRL	5.0		ug/L	254970	1	01/29/2018 23:28	NP
Toluene	BRL	5.0		ug/L	254970	1	01/29/2018 23:28	NP
Xylenes, Total	BRL	5.0		ug/L	254970	1	01/29/2018 23:28	NP
Surr: 4-Bromofluorobenzene	70.6	68-127		%REC	254970	1	01/29/2018 23:28	NP
Surr: Dibromofluoromethane	97.1	84.4-122		%REC	254970	1	01/29/2018 23:28	NP
Surr: Toluene-d8	90.9	80.1-116		%REC	254970	1	01/29/2018 23:28	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254865	1	02/06/2018 13:51	DP
Arsenic	BRL	0.0500		mg/L	254865	1	02/06/2018 13:51	DP
Barium	0.712	0.00400		mg/L	254865	1	02/06/2018 13:51	DP
Beryllium	BRL	0.00400		mg/L	254865	1	02/06/2018 13:51	DP
Cadmium	BRL	0.00500		mg/L	254865	1	02/06/2018 13:51	DP
Chromium	BRL	0.0100		mg/L	254865	1	02/06/2018 13:51	DP
Copper	BRL	0.0100		mg/L	254865	1	02/06/2018 13:51	DP
Lead	BRL	0.0100		mg/L	254865	1	02/06/2018 13:51	DP
Nickel	BRL	0.0200		mg/L	254865	1	02/06/2018 13:51	DP
Selenium	BRL	0.0200		mg/L	254865	1	02/06/2018 13:51	DP
Thallium	BRL	0.00200		mg/L	254865	1	02/06/2018 13:51	DP
Vanadium	BRL	0.0100		mg/L	254865	1	02/06/2018 13:51	DP
Zinc	BRL	0.0200		mg/L	254865	1	02/06/2018 13:51	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254837	1	01/29/2018 16:32	YH
Acenaphthylene	BRL	1.0		ug/L	254837	1	01/29/2018 16:32	YH
Acenaphthene	6.6	0.50		ug/L	254837	1	01/29/2018 16:32	YH
Fluorene	BRL	0.10		ug/L	254837	1	01/29/2018 16:32	YH
Phenanthrene	BRL	0.050		ug/L	254837	1	01/29/2018 16:32	YH
Anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 16:32	YH
Fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 16:32	YH
Pyrene	0.11	0.050		ug/L	254837	1	01/29/2018 16:32	YH
Benz(a)anthracene	BRL	0.050		ug/L	254837	1	01/29/2018 16:32	YH
Chrysene	BRL	0.050		ug/L	254837	1	01/29/2018 16:32	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254837	1	01/29/2018 16:32	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254837	1	01/29/2018 16:32	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 16:32	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-513BR-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 10:30:00 AM
Lab ID:	1801K95-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254837	1	01/29/2018 16:32	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254837	1	01/29/2018 16:32	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254837	1	01/29/2018 16:32	YH
Surr: 4-Terphenyl-d14	108	59.9-128		%REC	254837	1	01/29/2018 16:32	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255002	1	01/31/2018 06:21	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255078	1	01/31/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-315-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 12:52:00 PM
Lab ID:	1801K95-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	254970	1	01/29/2018 23:53	NP
Benzene	BRL	5.0		ug/L	254970	1	01/29/2018 23:53	NP
Carbon disulfide	BRL	5.0		ug/L	254970	1	01/29/2018 23:53	NP
Ethylbenzene	BRL	5.0		ug/L	254970	1	01/29/2018 23:53	NP
Methylene chloride	BRL	5.0		ug/L	254970	1	01/29/2018 23:53	NP
Trichloroethene	BRL	5.0		ug/L	254970	1	01/29/2018 23:53	NP
Toluene	BRL	5.0		ug/L	254970	1	01/29/2018 23:53	NP
Xylenes, Total	BRL	5.0		ug/L	254970	1	01/29/2018 23:53	NP
Surr: 4-Bromofluorobenzene	71.2	68-127		%REC	254970	1	01/29/2018 23:53	NP
Surr: Dibromofluoromethane	98.6	84.4-122		%REC	254970	1	01/29/2018 23:53	NP
Surr: Toluene-d8	91.2	80.1-116		%REC	254970	1	01/29/2018 23:53	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254865	1	02/06/2018 14:22	DP
Arsenic	BRL	0.0500		mg/L	254865	1	02/06/2018 14:22	DP
Barium	0.465	0.00400		mg/L	254865	1	02/06/2018 14:22	DP
Beryllium	BRL	0.00400		mg/L	254865	1	02/06/2018 14:22	DP
Cadmium	BRL	0.00500		mg/L	254865	1	02/06/2018 14:22	DP
Chromium	BRL	0.0100		mg/L	254865	1	02/06/2018 14:22	DP
Copper	BRL	0.0100		mg/L	254865	1	02/06/2018 14:22	DP
Lead	BRL	0.0100		mg/L	254865	1	02/06/2018 14:22	DP
Nickel	BRL	0.0200		mg/L	254865	1	02/06/2018 14:22	DP
Selenium	BRL	0.0200		mg/L	254865	1	02/06/2018 14:22	DP
Thallium	BRL	0.00200		mg/L	254865	1	02/06/2018 14:22	DP
Vanadium	BRL	0.0100		mg/L	254865	1	02/06/2018 14:22	DP
Zinc	BRL	0.0200		mg/L	254865	1	02/06/2018 14:22	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254887	1	01/30/2018 02:05	YH
Acenaphthylene	BRL	1.0		ug/L	254887	1	01/30/2018 02:05	YH
Acenaphthene	0.96	0.50		ug/L	254887	1	01/30/2018 02:05	YH
Fluorene	BRL	0.10		ug/L	254887	1	01/30/2018 02:05	YH
Phenanthrene	BRL	0.050		ug/L	254887	1	01/30/2018 02:05	YH
Anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 02:05	YH
Fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 02:05	YH
Pyrene	0.059	0.050		ug/L	254887	1	01/30/2018 02:05	YH
Benz(a)anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 02:05	YH
Chrysene	BRL	0.050		ug/L	254887	1	01/30/2018 02:05	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 02:05	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254887	1	01/30/2018 02:05	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 02:05	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-315-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 12:52:00 PM
Lab ID:	1801K95-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 02:05	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254887	1	01/30/2018 02:05	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254887	1	01/30/2018 02:05	YH
Surr: 4-Terphenyl-d14	100	59.9-128		%REC	254887	1	01/30/2018 02:05	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255002	1	01/31/2018 07:12	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255078	1	01/31/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-318-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 2:42:00 PM
Lab ID:	1801K95-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	254970	1	01/30/2018 00:17	NP
Benzene	59	5.0		ug/L	254970	1	01/30/2018 00:17	NP
Carbon disulfide	BRL	5.0		ug/L	254970	1	01/30/2018 00:17	NP
Ethylbenzene	BRL	5.0		ug/L	254970	1	01/30/2018 00:17	NP
Methylene chloride	BRL	5.0		ug/L	254970	1	01/30/2018 00:17	NP
Trichloroethene	BRL	5.0		ug/L	254970	1	01/30/2018 00:17	NP
Toluene	BRL	5.0		ug/L	254970	1	01/30/2018 00:17	NP
Xylenes, Total	BRL	5.0		ug/L	254970	1	01/30/2018 00:17	NP
Surr: 4-Bromofluorobenzene	73.6	68-127		%REC	254970	1	01/30/2018 00:17	NP
Surr: Dibromofluoromethane	94.3	84.4-122		%REC	254970	1	01/30/2018 00:17	NP
Surr: Toluene-d8	87.3	80.1-116		%REC	254970	1	01/30/2018 00:17	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254865	1	02/06/2018 14:24	DP
Arsenic	BRL	0.0500		mg/L	254865	1	02/06/2018 14:24	DP
Barium	0.666	0.00400		mg/L	254865	1	02/06/2018 14:24	DP
Beryllium	BRL	0.00400		mg/L	254865	1	02/06/2018 14:24	DP
Cadmium	BRL	0.00500		mg/L	254865	1	02/06/2018 14:24	DP
Chromium	BRL	0.0100		mg/L	254865	1	02/06/2018 14:24	DP
Copper	BRL	0.0100		mg/L	254865	1	02/06/2018 14:24	DP
Lead	BRL	0.0100		mg/L	254865	1	02/06/2018 14:24	DP
Nickel	BRL	0.0200		mg/L	254865	1	02/06/2018 14:24	DP
Selenium	BRL	0.0200		mg/L	254865	1	02/06/2018 14:24	DP
Thallium	BRL	0.00200		mg/L	254865	1	02/06/2018 14:24	DP
Vanadium	BRL	0.0100		mg/L	254865	1	02/06/2018 14:24	DP
Zinc	BRL	0.0200		mg/L	254865	1	02/06/2018 14:24	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254887	1	01/30/2018 02:32	YH
Acenaphthylene	BRL	1.0		ug/L	254887	1	01/30/2018 02:32	YH
Acenaphthene	9.9	0.50		ug/L	254887	1	01/30/2018 02:32	YH
Fluorene	1.7	0.10		ug/L	254887	1	01/30/2018 02:32	YH
Phenanthrene	0.71	0.050		ug/L	254887	1	01/30/2018 02:32	YH
Anthracene	0.19	0.050		ug/L	254887	1	01/30/2018 02:32	YH
Fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 02:32	YH
Pyrene	0.10	0.050		ug/L	254887	1	01/30/2018 02:32	YH
Benz(a)anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 02:32	YH
Chrysene	BRL	0.050		ug/L	254887	1	01/30/2018 02:32	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 02:32	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254887	1	01/30/2018 02:32	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 02:32	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-318-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 2:42:00 PM
Lab ID:	1801K95-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 02:32	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254887	1	01/30/2018 02:32	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254887	1	01/30/2018 02:32	YH
Surr: 4-Terphenyl-d14	93.2	59.9-128		%REC	254887	1	01/30/2018 02:32	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255002	1	01/31/2018 07:16	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255078	1	01/31/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-311-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 9:35:00 AM
Lab ID:	1801K95-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	254970	1	01/30/2018 01:53	NP
Benzene	BRL	5.0		ug/L	254970	1	01/30/2018 01:53	NP
Carbon disulfide	BRL	5.0		ug/L	254970	1	01/30/2018 01:53	NP
Ethylbenzene	BRL	5.0		ug/L	254970	1	01/30/2018 01:53	NP
Methylene chloride	BRL	5.0		ug/L	254970	1	01/30/2018 01:53	NP
Trichloroethene	BRL	5.0		ug/L	254970	1	01/30/2018 01:53	NP
Toluene	BRL	5.0		ug/L	254970	1	01/30/2018 01:53	NP
Xylenes, Total	BRL	5.0		ug/L	254970	1	01/30/2018 01:53	NP
Surr: 4-Bromofluorobenzene	73.8	68-127		%REC	254970	1	01/30/2018 01:53	NP
Surr: Dibromofluoromethane	99.2	84.4-122		%REC	254970	1	01/30/2018 01:53	NP
Surr: Toluene-d8	92.2	80.1-116		%REC	254970	1	01/30/2018 01:53	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254865	1	02/06/2018 14:26	DP
Arsenic	BRL	0.0500		mg/L	254865	1	02/06/2018 14:26	DP
Barium	0.0112	0.00400		mg/L	254865	1	02/06/2018 14:26	DP
Beryllium	BRL	0.00400		mg/L	254865	1	02/06/2018 14:26	DP
Cadmium	0.0423	0.00500		mg/L	254865	1	02/06/2018 14:26	DP
Chromium	BRL	0.0100		mg/L	254865	1	02/06/2018 14:26	DP
Copper	BRL	0.0100		mg/L	254865	1	02/06/2018 14:26	DP
Lead	BRL	0.0100		mg/L	254865	1	02/06/2018 14:26	DP
Nickel	0.0368	0.0200		mg/L	254865	1	02/06/2018 14:26	DP
Selenium	BRL	0.0200		mg/L	254865	1	02/06/2018 14:26	DP
Thallium	BRL	0.00200		mg/L	254865	1	02/06/2018 14:26	DP
Vanadium	BRL	0.0100		mg/L	254865	1	02/06/2018 14:26	DP
Zinc	0.168	0.0200		mg/L	254865	1	02/06/2018 14:26	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254887	1	01/30/2018 18:21	YH
Acenaphthylene	BRL	1.0		ug/L	254887	1	01/30/2018 18:21	YH
Acenaphthene	BRL	0.50		ug/L	254887	1	01/30/2018 18:21	YH
Fluorene	BRL	0.10		ug/L	254887	1	01/30/2018 18:21	YH
Phenanthrene	BRL	0.050		ug/L	254887	1	01/30/2018 18:21	YH
Anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 18:21	YH
Fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 18:21	YH
Pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 18:21	YH
Benz(a)anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 18:21	YH
Chrysene	BRL	0.050		ug/L	254887	1	01/30/2018 18:21	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 18:21	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254887	1	01/30/2018 18:21	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 18:21	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-311-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 9:35:00 AM
Lab ID:	1801K95-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 18:21	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254887	1	01/30/2018 18:21	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254887	1	01/30/2018 18:21	YH
Surr: 4-Terphenyl-d14	92.9	59.9-128		%REC	254887	1	01/30/2018 18:21	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255002	1	01/31/2018 07:20	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255078	1	01/31/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-206-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 10:52:00 AM
Lab ID:	1801K95-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	254970	1	01/30/2018 02:17	NP
Benzene	BRL	5.0		ug/L	254970	1	01/30/2018 02:17	NP
Carbon disulfide	BRL	5.0		ug/L	254970	1	01/30/2018 02:17	NP
Ethylbenzene	BRL	5.0		ug/L	254970	1	01/30/2018 02:17	NP
Methylene chloride	BRL	5.0		ug/L	254970	1	01/30/2018 02:17	NP
Trichloroethene	BRL	5.0		ug/L	254970	1	01/30/2018 02:17	NP
Toluene	BRL	5.0		ug/L	254970	1	01/30/2018 02:17	NP
Xylenes, Total	BRL	5.0		ug/L	254970	1	01/30/2018 02:17	NP
Surr: 4-Bromofluorobenzene	70.4	68-127		%REC	254970	1	01/30/2018 02:17	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	254970	1	01/30/2018 02:17	NP
Surr: Toluene-d8	91.9	80.1-116		%REC	254970	1	01/30/2018 02:17	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254865	1	02/06/2018 14:28	DP
Arsenic	BRL	0.0500		mg/L	254865	1	02/06/2018 14:28	DP
Barium	0.451	0.00400		mg/L	254865	1	02/06/2018 14:28	DP
Beryllium	BRL	0.00400		mg/L	254865	1	02/06/2018 14:28	DP
Cadmium	BRL	0.00500		mg/L	254865	1	02/06/2018 14:28	DP
Chromium	BRL	0.0100		mg/L	254865	1	02/06/2018 14:28	DP
Copper	BRL	0.0100		mg/L	254865	1	02/06/2018 14:28	DP
Lead	BRL	0.0100		mg/L	254865	1	02/06/2018 14:28	DP
Nickel	BRL	0.0200		mg/L	254865	1	02/06/2018 14:28	DP
Selenium	BRL	0.0200		mg/L	254865	1	02/06/2018 14:28	DP
Thallium	BRL	0.00200		mg/L	254865	1	02/06/2018 14:28	DP
Vanadium	BRL	0.0100		mg/L	254865	1	02/06/2018 14:28	DP
Zinc	BRL	0.0200		mg/L	254865	1	02/06/2018 14:28	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254887	1	01/30/2018 18:47	YH
Acenaphthylene	BRL	1.0		ug/L	254887	1	01/30/2018 18:47	YH
Acenaphthene	BRL	0.50		ug/L	254887	1	01/30/2018 18:47	YH
Fluorene	BRL	0.10		ug/L	254887	1	01/30/2018 18:47	YH
Phenanthrene	BRL	0.050		ug/L	254887	1	01/30/2018 18:47	YH
Anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 18:47	YH
Fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 18:47	YH
Pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 18:47	YH
Benz(a)anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 18:47	YH
Chrysene	BRL	0.050		ug/L	254887	1	01/30/2018 18:47	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 18:47	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254887	1	01/30/2018 18:47	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 18:47	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-206-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 10:52:00 AM
Lab ID:	1801K95-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 18:47	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254887	1	01/30/2018 18:47	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254887	1	01/30/2018 18:47	YH
Surr: 4-Terphenyl-d14	105	59.9-128		%REC	254887	1	01/30/2018 18:47	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255002	1	01/31/2018 07:24	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255078	1	01/31/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-22-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 12:37:00 PM
Lab ID:	1801K95-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	254970	1	01/30/2018 02:42	NP
Benzene	BRL	5.0		ug/L	254970	1	01/30/2018 02:42	NP
Carbon disulfide	BRL	5.0		ug/L	254970	1	01/30/2018 02:42	NP
Ethylbenzene	BRL	5.0		ug/L	254970	1	01/30/2018 02:42	NP
Methylene chloride	BRL	5.0		ug/L	254970	1	01/30/2018 02:42	NP
Trichloroethene	BRL	5.0		ug/L	254970	1	01/30/2018 02:42	NP
Toluene	BRL	5.0		ug/L	254970	1	01/30/2018 02:42	NP
Xylenes, Total	BRL	5.0		ug/L	254970	1	01/30/2018 02:42	NP
Surr: 4-Bromofluorobenzene	70.3	68-127		%REC	254970	1	01/30/2018 02:42	NP
Surr: Dibromofluoromethane	98.9	84.4-122		%REC	254970	1	01/30/2018 02:42	NP
Surr: Toluene-d8	87.6	80.1-116		%REC	254970	1	01/30/2018 02:42	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254865	1	02/06/2018 14:30	DP
Arsenic	BRL	0.0500		mg/L	254865	1	02/06/2018 14:30	DP
Barium	0.0359	0.00400		mg/L	254865	1	02/06/2018 14:30	DP
Beryllium	BRL	0.00400		mg/L	254865	1	02/06/2018 14:30	DP
Cadmium	BRL	0.00500		mg/L	254865	1	02/06/2018 14:30	DP
Chromium	BRL	0.0100		mg/L	254865	1	02/06/2018 14:30	DP
Copper	BRL	0.0100		mg/L	254865	1	02/06/2018 14:30	DP
Lead	BRL	0.0100		mg/L	254865	1	02/06/2018 14:30	DP
Nickel	BRL	0.0200		mg/L	254865	1	02/06/2018 14:30	DP
Selenium	BRL	0.0200		mg/L	254865	1	02/06/2018 14:30	DP
Thallium	BRL	0.00200		mg/L	254865	1	02/06/2018 14:30	DP
Vanadium	BRL	0.0100		mg/L	254865	1	02/06/2018 14:30	DP
Zinc	BRL	0.0200		mg/L	254865	1	02/06/2018 14:30	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254954	1	01/30/2018 14:01	YH
Acenaphthylene	BRL	1.0		ug/L	254954	1	01/30/2018 14:01	YH
Acenaphthene	BRL	0.50		ug/L	254954	1	01/30/2018 14:01	YH
Fluorene	BRL	0.10		ug/L	254954	1	01/30/2018 14:01	YH
Phenanthrene	BRL	0.050		ug/L	254954	1	01/30/2018 14:01	YH
Anthracene	BRL	0.050		ug/L	254954	1	01/30/2018 14:01	YH
Fluoranthene	BRL	0.10		ug/L	254954	1	01/30/2018 14:01	YH
Pyrene	BRL	0.050		ug/L	254954	1	01/30/2018 14:01	YH
Benz(a)anthracene	BRL	0.050		ug/L	254954	1	01/30/2018 14:01	YH
Chrysene	BRL	0.050		ug/L	254954	1	01/30/2018 14:01	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254954	1	01/30/2018 14:01	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254954	1	01/30/2018 14:01	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254954	1	01/30/2018 14:01	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-22-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 12:37:00 PM
Lab ID:	1801K95-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254954	1	01/30/2018 14:01	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254954	1	01/30/2018 14:01	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254954	1	01/30/2018 14:01	YH
Surr: 4-Terphenyl-d14	109	59.9-128		%REC	254954	1	01/30/2018 14:01	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255002	1	01/31/2018 07:28	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255078	1	01/31/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-214-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 2:12:00 PM
Lab ID:	1801K95-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	254970	1	01/30/2018 03:06	NP
Benzene	BRL	5.0		ug/L	254970	1	01/30/2018 03:06	NP
Carbon disulfide	BRL	5.0		ug/L	254970	1	01/30/2018 03:06	NP
Ethylbenzene	BRL	5.0		ug/L	254970	1	01/30/2018 03:06	NP
Methylene chloride	BRL	5.0		ug/L	254970	1	01/30/2018 03:06	NP
Trichloroethene	BRL	5.0		ug/L	254970	1	01/30/2018 03:06	NP
Toluene	BRL	5.0		ug/L	254970	1	01/30/2018 03:06	NP
Xylenes, Total	BRL	5.0		ug/L	254970	1	01/30/2018 03:06	NP
Surr: 4-Bromofluorobenzene	73.8	68-127		%REC	254970	1	01/30/2018 03:06	NP
Surr: Dibromofluoromethane	97.9	84.4-122		%REC	254970	1	01/30/2018 03:06	NP
Surr: Toluene-d8	89.4	80.1-116		%REC	254970	1	01/30/2018 03:06	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254865	1	02/06/2018 14:32	DP
Arsenic	BRL	0.0500		mg/L	254865	1	02/06/2018 14:32	DP
Barium	0.400	0.00400		mg/L	254865	1	02/06/2018 14:32	DP
Beryllium	BRL	0.00400		mg/L	254865	1	02/06/2018 14:32	DP
Cadmium	BRL	0.00500		mg/L	254865	1	02/06/2018 14:32	DP
Chromium	BRL	0.0100		mg/L	254865	1	02/06/2018 14:32	DP
Copper	BRL	0.0100		mg/L	254865	1	02/06/2018 14:32	DP
Lead	BRL	0.0100		mg/L	254865	1	02/06/2018 14:32	DP
Nickel	BRL	0.0200		mg/L	254865	1	02/06/2018 14:32	DP
Selenium	BRL	0.0200		mg/L	254865	1	02/06/2018 14:32	DP
Thallium	BRL	0.00200		mg/L	254865	1	02/06/2018 14:32	DP
Vanadium	BRL	0.0100		mg/L	254865	1	02/06/2018 14:32	DP
Zinc	BRL	0.0200		mg/L	254865	1	02/06/2018 14:32	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254954	1	01/30/2018 14:27	YH
Acenaphthylene	BRL	1.0		ug/L	254954	1	01/30/2018 14:27	YH
Acenaphthene	BRL	0.50		ug/L	254954	1	01/30/2018 14:27	YH
Fluorene	BRL	0.10		ug/L	254954	1	01/30/2018 14:27	YH
Phenanthrene	BRL	0.050		ug/L	254954	1	01/30/2018 14:27	YH
Anthracene	BRL	0.050		ug/L	254954	1	01/30/2018 14:27	YH
Fluoranthene	BRL	0.10		ug/L	254954	1	01/30/2018 14:27	YH
Pyrene	BRL	0.050		ug/L	254954	1	01/30/2018 14:27	YH
Benz(a)anthracene	BRL	0.050		ug/L	254954	1	01/30/2018 14:27	YH
Chrysene	BRL	0.050		ug/L	254954	1	01/30/2018 14:27	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254954	1	01/30/2018 14:27	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254954	1	01/30/2018 14:27	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254954	1	01/30/2018 14:27	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-214-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/24/2018 2:12:00 PM
Lab ID:	1801K95-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D (SW3510C)								
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254954	1	01/30/2018 14:27	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254954	1	01/30/2018 14:27	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254954	1	01/30/2018 14:27	YH
Surr: 4-Terphenyl-d14	104	59.9-128		%REC	254954	1	01/30/2018 14:27	YH
Mercury, Total SW7470A (SW7470A)								
Mercury	BRL	0.00020		mg/L	255098	1	02/02/2018 15:47	AS
Cyanide SW9014 (SW9010C)								
Cyanide, Total	BRL	0.010		mg/L	255078	1	01/31/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 8-Feb-18

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: MW-310SAP-0118				**Lab ID:** 1801K95-002			
Collection Date: 1/24/2018 9:48:00 AM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.0890		0.000185	0.00400	mg/L	254865	1
Nickel	0.431		0.000210	0.0200	mg/L	254865	1
Client Sample ID: MW-310BR-0118				**Lab ID:** 1801K95-003			
Collection Date: 1/24/2018 11:45:00 AM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.286		0.000185	0.00400	mg/L	254865	1
Client Sample ID: MW-402S-0118				**Lab ID:** 1801K95-004			
Collection Date: 1/24/2018 1:50:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.0936		0.000185	0.00400	mg/L	254865	1
Client Sample ID: MW-402D-0118				**Lab ID:** 1801K95-005			
Collection Date: 1/24/2018 2:57:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.108		0.000185	0.00400	mg/L	254865	1
Client Sample ID: MW-513BR-0118				**Lab ID:** 1801K95-006			
Collection Date: 1/24/2018 10:30:00 AM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.712		0.000185	0.00400	mg/L	254865	1
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Acenaphthene	6.6		0.017	0.50	ug/L	254837	1
Pyrene	0.11		0.015	0.050	ug/L	254837	1
Client Sample ID: MW-315-0118				**Lab ID:** 1801K95-007			
Collection Date: 1/24/2018 12:52:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.465		0.000185	0.00400	mg/L	254865	1
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Acenaphthene	0.96		0.017	0.50	ug/L	254887	1
Pyrene	0.059		0.015	0.050	ug/L	254887	1
Client Sample ID: MW-318-0118				**Lab ID:** 1801K95-008			
Collection Date: 1/24/2018 2:42:00 PM				**Matrix:** Groundwater			
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**			
Benzene	59		0.37	5.0	ug/L	254970	1
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.666		0.000185	0.00400	mg/L	254865	1
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Acenaphthene	9.9		0.017	0.50	ug/L	254887	1
Fluorene	1.7		0.019	0.10	ug/L	254887	1
Phenanthrene	0.71		0.022	0.050	ug/L	254887	1
Anthracene	0.19		0.026	0.050	ug/L	254887	1
Pyrene	0.10		0.015	0.050	ug/L	254887	1
Client Sample ID: MW-311-0118				**Lab ID:** 1801K95-009			
Collection Date: 1/24/2018 9:35:00 AM				**Matrix:** Groundwater			

Analytical Environmental Services, Inc

Date: 8-Feb-18

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: MW-311-0118				**Lab ID:** 1801K95-009			
Collection Date: 1/24/2018 9:35:00 AM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.0112		0.000185	0.00400	mg/L	254865	1
Cadmium	0.0423		0.000148	0.00500	mg/L	254865	1
Nickel	0.0368		0.000210	0.0200	mg/L	254865	1
Zinc	0.168		0.000580	0.0200	mg/L	254865	1
Client Sample ID: MW-206-0118				**Lab ID:** 1801K95-010			
Collection Date: 1/24/2018 10:52:00 AM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.451		0.000185	0.00400	mg/L	254865	1
Client Sample ID: MW-22-0118				**Lab ID:** 1801K95-011			
Collection Date: 1/24/2018 12:37:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.0359		0.000185	0.00400	mg/L	254865	1
Client Sample ID: MW-214-0118				**Lab ID:** 1801K95-012			
Collection Date: 1/24/2018 2:12:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.400		0.000185	0.00400	mg/L	254865	1

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **AMEC Foster Wheeler** AES Work Order Number: **1801K95**

2. Carrier: FedEx ■ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	◉	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	◉	○	○		
5.	Custody seals intact on shipping container?	◉	○	○		
6.	Temperature blanks present?	◉	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	◉	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	◉	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	◉	○	○		
10.	Sampler name and/or signature on COC?	◉	○	○		
11.	Were all samples received within holding time?	◉	○	○		
12.	TAT marked on the COC?	◉	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 1.1 °C Cooler 2 Temperature 1.5 °C Cooler 3 Temperature 0.9 °C Cooler 4 Temperature 1.2 °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). KH 1/25/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	◉	○	○		
17.	Custody seals present on sample containers?	○	◉	○		
18.	Custody seals intact on sample containers?	○	○	◉		
19.	Do sample container labels match the COC?	◉	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	◉	○	○		
21.	Were all of the samples listed on the COC received?	◉	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	◉	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	◉	○	○		
24.	Were samples received in appropriate containers?	◉	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	◉	○	○		
26.	Were trip blanks submitted?	◉	○	○	listed on COC ■ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MJ 1/26/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	◉	○	○		
29.	Containers meet preservation guidelines?	◉	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	◉		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MJ 1/26/18

Checklist 6.9.17 Rev 2

Locked

Analytical Environmental Services, Inc

Date: 8-Feb-18

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Lab Order: 1801K95

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1801K95-001A	TB-02-0118	1/24/2018 9:30:00AM	Aqueous	Volatile Organic Compounds by GC/MS		1/29/2018 4:13:00PM	01/29/2018
1801K95-002A	MW-310SAP-0118	1/24/2018 9:48:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/29/2018 4:13:00PM	01/29/2018
1801K95-002B	MW-310SAP-0118	1/24/2018 9:48:00AM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/06/2018
1801K95-002B	MW-310SAP-0118	1/24/2018 9:48:00AM	Groundwater	TOTAL MERCURY		1/30/2018 10:18:00PM	01/31/2018
1801K95-002C	MW-310SAP-0118	1/24/2018 9:48:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/30/2018
1801K95-002D	MW-310SAP-0118	1/24/2018 9:48:00AM	Groundwater	Cyanide		1/31/2018 11:20:00AM	01/31/2018
1801K95-003A	MW-310BR-0118	1/24/2018 11:45:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/29/2018 4:13:00PM	01/29/2018
1801K95-003B	MW-310BR-0118	1/24/2018 11:45:00AM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/06/2018
1801K95-003B	MW-310BR-0118	1/24/2018 11:45:00AM	Groundwater	TOTAL MERCURY		1/30/2018 10:18:00PM	01/31/2018
1801K95-003C	MW-310BR-0118	1/24/2018 11:45:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/30/2018
1801K95-003D	MW-310BR-0118	1/24/2018 11:45:00AM	Groundwater	Cyanide		1/31/2018 11:50:00AM	01/31/2018
1801K95-004A	MW-402S-0118	1/24/2018 1:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/29/2018 4:13:00PM	01/29/2018
1801K95-004B	MW-402S-0118	1/24/2018 1:50:00PM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/06/2018
1801K95-004B	MW-402S-0118	1/24/2018 1:50:00PM	Groundwater	TOTAL MERCURY		1/30/2018 10:18:00PM	01/31/2018
1801K95-004C	MW-402S-0118	1/24/2018 1:50:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/30/2018
1801K95-004D	MW-402S-0118	1/24/2018 1:50:00PM	Groundwater	Cyanide		1/31/2018 11:50:00AM	01/31/2018
1801K95-005A	MW-402D-0118	1/24/2018 2:57:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/29/2018 4:13:00PM	01/29/2018
1801K95-005B	MW-402D-0118	1/24/2018 2:57:00PM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/06/2018
1801K95-005B	MW-402D-0118	1/24/2018 2:57:00PM	Groundwater	TOTAL MERCURY		1/30/2018 10:18:00PM	01/31/2018
1801K95-005C	MW-402D-0118	1/24/2018 2:57:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/30/2018
1801K95-005D	MW-402D-0118	1/24/2018 2:57:00PM	Groundwater	Cyanide		1/31/2018 11:50:00AM	01/31/2018
1801K95-006A	MW-513BR-0118	1/24/2018 10:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/29/2018 4:13:00PM	01/29/2018
1801K95-006B	MW-513BR-0118	1/24/2018 10:30:00AM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/06/2018
1801K95-006B	MW-513BR-0118	1/24/2018 10:30:00AM	Groundwater	TOTAL MERCURY		1/30/2018 10:18:00PM	01/31/2018
1801K95-006C	MW-513BR-0118	1/24/2018 10:30:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 8:30:00AM	01/29/2018
1801K95-006D	MW-513BR-0118	1/24/2018 10:30:00AM	Groundwater	Cyanide		1/31/2018 11:50:00AM	01/31/2018
1801K95-007A	MW-315-0118	1/24/2018 12:52:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/29/2018 4:13:00PM	01/29/2018
1801K95-007B	MW-315-0118	1/24/2018 12:52:00PM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/06/2018
1801K95-007B	MW-315-0118	1/24/2018 12:52:00PM	Groundwater	TOTAL MERCURY		1/30/2018 10:18:00PM	01/31/2018

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Lab Order: 1801K95

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1801K95-007C	MW-315-0118	1/24/2018 12:52:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/30/2018
1801K95-007D	MW-315-0118	1/24/2018 12:52:00PM	Groundwater	Cyanide		1/31/2018 11:50:00AM	01/31/2018
1801K95-008A	MW-318-0118	1/24/2018 2:42:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/29/2018 4:13:00PM	01/30/2018
1801K95-008B	MW-318-0118	1/24/2018 2:42:00PM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/06/2018
1801K95-008B	MW-318-0118	1/24/2018 2:42:00PM	Groundwater	TOTAL MERCURY		1/30/2018 10:18:00PM	01/31/2018
1801K95-008C	MW-318-0118	1/24/2018 2:42:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/30/2018
1801K95-008D	MW-318-0118	1/24/2018 2:42:00PM	Groundwater	Cyanide		1/31/2018 11:50:00AM	01/31/2018
1801K95-009A	MW-311-0118	1/24/2018 9:35:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/29/2018 4:13:00PM	01/30/2018
1801K95-009B	MW-311-0118	1/24/2018 9:35:00AM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/06/2018
1801K95-009B	MW-311-0118	1/24/2018 9:35:00AM	Groundwater	TOTAL MERCURY		1/30/2018 10:18:00PM	01/31/2018
1801K95-009C	MW-311-0118	1/24/2018 9:35:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/30/2018
1801K95-009D	MW-311-0118	1/24/2018 9:35:00AM	Groundwater	Cyanide		1/31/2018 11:50:00AM	01/31/2018
1801K95-010A	MW-206-0118	1/24/2018 10:52:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/29/2018 4:13:00PM	01/30/2018
1801K95-010B	MW-206-0118	1/24/2018 10:52:00AM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/06/2018
1801K95-010B	MW-206-0118	1/24/2018 10:52:00AM	Groundwater	TOTAL MERCURY		1/30/2018 10:18:00PM	01/31/2018
1801K95-010C	MW-206-0118	1/24/2018 10:52:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/30/2018
1801K95-010D	MW-206-0118	1/24/2018 10:52:00AM	Groundwater	Cyanide		1/31/2018 11:50:00AM	01/31/2018
1801K95-011A	MW-22-0118	1/24/2018 12:37:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/29/2018 4:13:00PM	01/30/2018
1801K95-011B	MW-22-0118	1/24/2018 12:37:00PM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/06/2018
1801K95-011B	MW-22-0118	1/24/2018 12:37:00PM	Groundwater	TOTAL MERCURY		1/30/2018 10:18:00PM	01/31/2018
1801K95-011C	MW-22-0118	1/24/2018 12:37:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/30/2018 9:30:00AM	01/30/2018
1801K95-011D	MW-22-0118	1/24/2018 12:37:00PM	Groundwater	Cyanide		1/31/2018 11:50:00AM	01/31/2018
1801K95-012A	MW-214-0118	1/24/2018 2:12:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/29/2018 4:13:00PM	01/30/2018
1801K95-012B	MW-214-0118	1/24/2018 2:12:00PM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/06/2018
1801K95-012B	MW-214-0118	1/24/2018 2:12:00PM	Groundwater	TOTAL MERCURY		2/2/2018 1:30:00PM	02/02/2018
1801K95-012C	MW-214-0118	1/24/2018 2:12:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/30/2018 9:30:00AM	01/30/2018
1801K95-012D	MW-214-0118	1/24/2018 2:12:00PM	Groundwater	Cyanide		1/31/2018 11:50:00AM	01/31/2018

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K95

ANALYTICAL QC SUMMARY REPORT

BatchID: 254837

Sample ID: **MB-254837**	Client ID:		Units: **ug/L**	Prep Date: **01/29/2018**	Run No: **361842**
SampleType: **MBLK**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **254837**	Analysis Date: **01/29/2018**	Seq No: **7992590**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	2.148	0	2.000		107	59.9	128				

Sample ID: **LCS-254837**	Client ID:		Units: **ug/L**	Prep Date: **01/29/2018**	Run No: **361842**
SampleType: **LCS**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **254837**	Analysis Date: **01/29/2018**	Seq No: **7992591**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.946	0.50	2.000		97.3	64.7	120				
Acenaphthylene	1.962	1.0	2.000		98.1	63.2	120				
Anthracene	2.102	0.050	2.000		105	69.3	125				
Benz(a)anthracene	2.249	0.050	2.000		112	71.1	141				
Benzo(a)pyrene	2.099	0.050	2.000		105	67.2	131				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K95

ANALYTICAL QC SUMMARY REPORT

BatchID: 254837

Sample ID: **LCS-254837** Client ID: Units: **ug/L** Prep Date: **01/29/2018** Run No: **361842**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **254837** Analysis Date: **01/29/2018** Seq No: **7992591**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(b)fluoranthene	2.175	0.10	2.000		109	66.1	134				
Benzo(g,h,i)perylene	1.808	0.10	2.000		90.4	66.1	128				
Benzo(k)fluoranthene	2.180	0.050	2.000		109	67.7	133				
Chrysene	2.389	0.050	2.000		119	71.3	137				
Dibenz(a,h)anthracene	1.621	0.10	2.000		81.0	59.7	125				
Fluoranthene	2.149	0.10	2.000		107	72.3	129				
Fluorene	1.997	0.10	2.000		99.8	69.2	120				
Indeno(1,2,3-cd)pyrene	1.839	0.050	2.000		92.0	66.4	127				
Naphthalene	1.779	0.50	2.000		88.9	56.8	120				
Phenanthrene	2.017	0.050	2.000		101	70.9	120				
Pyrene	2.366	0.050	2.000	0.03070	117	68.4	138				
Surr: 4-Terphenyl-d14	2.283	0	2.000		114	59.9	128				

Sample ID: **1801K95-006CMS** Client ID: **MW-513BR-0118** Units: **ug/L** Prep Date: **01/29/2018** Run No: **361918**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **254837** Analysis Date: **01/30/2018** Seq No: **7994744**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	9.053	0.50	2.000	6.648	120	61.4	120				S
Acenaphthylene	2.030	1.0	2.000		101	63.9	120				
Anthracene	2.142	0.050	2.000	0.04705	105	65.3	120				
Benz(a)anthracene	2.177	0.050	2.000		109	76.7	124				
Benzo(a)pyrene	1.828	0.050	2.000		91.4	58.5	120				
Benzo(b)fluoranthene	1.751	0.10	2.000		87.5	52.6	121				
Benzo(g,h,i)perylene	1.468	0.10	2.000		73.4	44.2	120				
Benzo(k)fluoranthene	2.073	0.050	2.000		104	59	120				
Chrysene	2.334	0.050	2.000		117	65	122				
Dibenz(a,h)anthracene	1.311	0.10	2.000		65.5	38.2	120				
Fluoranthene	2.201	0.10	2.000		110	71.7	118				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K95

ANALYTICAL QC SUMMARY REPORT

BatchID: 254837

Sample ID: **1801K95-006CMS**	Client ID: **MW-513BR-0118**			Units: **ug/L**	Prep Date: **01/29/2018**	Run No: **361918**
SampleType: **MS**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**			BatchID: **254837**	Analysis Date: **01/30/2018**	Seq No: **7994744**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Fluorene	2.036	0.10	2.000		102	65.6	120				
Indeno(1,2,3-cd)pyrene	1.462	0.050	2.000		73.1	46.6	120				
Naphthalene	2.052	0.50	2.000	0.01993	102	57.3	120				
Phenanthrene	2.040	0.050	2.000		102	65.6	120				
Pyrene	2.436	0.050	2.000	0.1082	116	69	121				
Surr: 4-Terphenyl-d14	2.164	0	2.000		108	59.9	128				

Sample ID: **1801K95-006CMSD**	Client ID: **MW-513BR-0118**			Units: **ug/L**	Prep Date: **01/29/2018**	Run No: **361918**
SampleType: **MSD**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**			BatchID: **254837**	Analysis Date: **01/30/2018**	Seq No: **7994745**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	7.918	0.50	2.000	6.648	63.5	61.4	120	9.085	13.7	24.4	
Acenaphthylene	1.816	1.0	2.000		90.8	63.9	120	2.054	12.3	27.9	
Anthracene	1.899	0.050	2.000	0.04705	92.6	65.3	120	2.124	11.1	26.3	
Benz(a)anthracene	1.952	0.050	2.000		97.6	76.7	124	2.252	14.3	25	
Benzo(a)pyrene	1.708	0.050	2.000		85.4	58.5	120	1.866	8.84	23.5	
Benzo(b)fluoranthene	1.601	0.10	2.000		80.0	52.6	121	1.915	17.9	24	
Benzo(g,h,i)perylene	1.403	0.10	2.000		70.2	44.2	120	1.524	8.24	32.1	
Benzo(k)fluoranthene	1.834	0.050	2.000		91.7	59	120	1.995	8.41	19.6	
Chrysene	2.083	0.050	2.000		104	65	122	2.323	10.9	23	
Dibenz(a,h)anthracene	1.210	0.10	2.000		60.5	38.2	120	1.391	13.9	31.7	
Fluoranthene	1.962	0.10	2.000		98.1	71.7	118	2.179	10.5	23	
Fluorene	1.810	0.10	2.000		90.5	65.6	120	2.094	14.6	25	
Indeno(1,2,3-cd)pyrene	1.364	0.050	2.000		68.2	46.6	120	1.523	11.0	32.4	
Naphthalene	1.843	0.50	2.000	0.01993	91.2	57.3	120	2.041	10.2	27.2	
Phenanthrene	1.800	0.050	2.000		90.0	65.6	120	2.036	12.3	23.5	
Pyrene	2.196	0.050	2.000	0.1082	104	69	121	2.456	11.2	23.8	
Surr: 4-Terphenyl-d14	1.957	0	2.000		97.9	59.9	128	2.208	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 8-Feb-18

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K95

ANALYTICAL QC SUMMARY REPORT

BatchID: 254865

Sample ID: **MB-254865** Client ID: Units: **mg/L** Prep Date: **01/30/2018** Run No: **362489**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **254865** Analysis Date: **02/06/2018** Seq No: **8007182**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.00600									
Arsenic	BRL	0.0500									
Barium	BRL	0.00400									
Beryllium	BRL	0.00400									
Cadmium	BRL	0.00500									
Chromium	BRL	0.0100									
Copper	BRL	0.0100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Selenium	BRL	0.0200									
Thallium	BRL	0.00200									
Vanadium	BRL	0.0100									
Zinc	BRL	0.0200									

Sample ID: **LCS-254865** Client ID: Units: **mg/L** Prep Date: **01/30/2018** Run No: **362489**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **254865** Analysis Date: **02/07/2018** Seq No: **8009405**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1184	0.00500	0.1000	0.0003916	118	80	120				
Arsenic	0.1116	0.00500	0.1000	0.0004361	111	80	120				
Barium	0.1161	0.0100	0.1000		116	80	120				
Beryllium	0.1040	0.00100	0.1000		104	80	120				
Cadmium	0.1128	0.000700	0.1000		113	80	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K95

ANALYTICAL QC SUMMARY REPORT

BatchID: 254865

Sample ID: **LCS-254865** Client ID: Units: **mg/L** Prep Date: **01/30/2018** Run No: **362489**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **254865** Analysis Date: **02/07/2018** Seq No: **8009405**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	0.1078	0.00500	0.1000	0.0006846	107	80	120				
Copper	0.1093	0.00200	0.1000	0.0005498	109	80	120				
Lead	0.1171	0.00100	0.1000		117	80	120				
Nickel	0.1073	0.00500	0.1000		107	80	120				
Selenium	0.1189	0.00500	0.1000	0.0005243	118	80	120				
Thallium	0.1158	0.00100	0.1000		116	80	120				
Vanadium	0.1072	0.00500	0.1000		107	80	120				
Zinc	0.1122	0.0100	0.1000	0.002583	110	80	120				

Sample ID: **1801K95-006BMS** Client ID: **MW-513BR-0118** Units: **mg/L** Prep Date: **01/30/2018** Run No: **362489**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **254865** Analysis Date: **02/06/2018** Seq No: **8007185**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1120	0.00500	0.1000	0.0003604	112	75	125				
Arsenic	0.1101	0.00500	0.1000	0.001209	109	75	125				
Barium	0.8170	0.0100	0.1000	0.7116	105	75	125				
Beryllium	0.08664	0.00100	0.1000		86.6	75	125				
Cadmium	0.1140	0.000700	0.1000		114	75	125				
Chromium	0.1012	0.00500	0.1000	0.0008385	100	75	125				
Copper	0.09516	0.00200	0.1000	0.001003	94.2	75	125				
Lead	0.1046	0.00100	0.1000		105	75	125				
Nickel	0.1005	0.00500	0.1000	0.0006815	99.8	75	125				
Selenium	0.1103	0.00500	0.1000		110	75	125				
Thallium	0.1056	0.00100	0.1000		106	75	125				
Vanadium	0.1000	0.00500	0.1000		100	75	125				
Zinc	0.1206	0.0100	0.1000	0.01310	107	75	125				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K95

ANALYTICAL QC SUMMARY REPORT

BatchID: 254865

Sample ID: **1801K95-006BMSD** Client ID: **MW-513BR-0118** Units: **mg/L** Prep Date: **01/30/2018** Run No: **362489**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **254865** Analysis Date: **02/06/2018** Seq No: **8007186**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1097	0.00500	0.1000	0.0003604	109	75	125	0.1120	2.04	20	
Arsenic	0.1056	0.00500	0.1000	0.001209	104	75	125	0.1101	4.21	20	
Barium	0.7765	0.0100	0.1000	0.7116	64.9	75	125	0.8170	5.08	20	S
Beryllium	0.08676	0.00100	0.1000		86.8	75	125	0.08664	0.144	20	
Cadmium	0.1104	0.000700	0.1000		110	75	125	0.1140	3.23	20	
Chromium	0.09769	0.00500	0.1000	0.0008385	96.8	75	125	0.1012	3.56	20	
Copper	0.09301	0.00200	0.1000	0.001003	92.0	75	125	0.09516	2.29	20	
Lead	0.1033	0.00100	0.1000		103	75	125	0.1046	1.30	20	
Nickel	0.09698	0.00500	0.1000	0.0006815	96.3	75	125	0.1005	3.52	20	
Selenium	0.1068	0.00500	0.1000		107	75	125	0.1103	3.26	20	
Thallium	0.1046	0.00100	0.1000		105	75	125	0.1056	0.942	20	
Vanadium	0.09754	0.00500	0.1000		97.5	75	125	0.1000	2.53	20	
Zinc	0.1222	0.0100	0.1000	0.01310	109	75	125	0.1206	1.30	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K95

ANALYTICAL QC SUMMARY REPORT

BatchID: 254887

Sample ID: **MB-254887** Client ID: Units: **ug/L** Prep Date: **01/29/2018** Run No: **361918**
SampleType: **MBLK** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **254887** Analysis Date: **01/30/2018** Seq No: **7993426**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	2.477	0	2.000		124	59.9	128				

Sample ID: **LCS-254887** Client ID: Units: **ug/L** Prep Date: **01/29/2018** Run No: **361918**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **254887** Analysis Date: **01/30/2018** Seq No: **7993427**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.689	0.50	2.000		84.4	64.7	120				
Acenaphthylene	1.608	1.0	2.000		80.4	63.2	120				
Anthracene	1.775	0.050	2.000		88.7	69.3	125				
Benz(a)anthracene	1.845	0.050	2.000		92.3	71.1	141				
Benzo(a)pyrene	1.732	0.050	2.000		86.6	67.2	131				
Benzo(b)fluoranthene	1.686	0.10	2.000		84.3	66.1	134				

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K95

ANALYTICAL QC SUMMARY REPORT

BatchID: 254887

Sample ID: **LCS-254887** Client ID: Units: **ug/L** Prep Date: **01/29/2018** Run No: **361918**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **254887** Analysis Date: **01/30/2018** Seq No: **7993427**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(g,h,i)perylene	1.556	0.10	2.000		77.8	66.1	128				
Benzo(k)fluoranthene	1.837	0.050	2.000		91.8	67.7	133				
Chrysene	2.030	0.050	2.000		102	71.3	137				
Dibenz(a,h)anthracene	1.534	0.10	2.000		76.7	59.7	125				
Fluoranthene	1.837	0.10	2.000		91.8	72.3	129				
Fluorene	1.660	0.10	2.000		83.0	69.2	120				
Indeno(1,2,3-cd)pyrene	1.491	0.050	2.000		74.5	66.4	127				
Naphthalene	2.218	0.50	2.000		111	56.8	120				
Phenanthrene	1.685	0.050	2.000		84.3	70.9	120				
Pyrene	1.959	0.050	2.000	0.03070	96.4	68.4	138				
Surr: 4-Terphenyl-d14	2.384	0	2.000		119	59.9	128				

Sample ID: **1801L87-006CMS** Client ID: Units: **ug/L** Prep Date: **01/29/2018** Run No: **362018**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **254887** Analysis Date: **01/31/2018** Seq No: **7997127**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.748	0.50	2.000		87.4	61.4	120				
Acenaphthylene	1.615	1.0	2.000		80.7	63.9	120				
Anthracene	1.717	0.050	2.000		85.9	65.3	120				
Benz(a)anthracene	1.832	0.050	2.000		91.6	76.7	124				
Benzo(a)pyrene	1.652	0.050	2.000		82.6	58.5	120				
Benzo(b)fluoranthene	1.594	0.10	2.000		79.7	52.6	121				
Benzo(g,h,i)perylene	1.444	0.10	2.000		72.2	44.2	120				
Benzo(k)fluoranthene	1.918	0.050	2.000		95.9	59	120				
Chrysene	2.139	0.050	2.000		107	65	122				
Dibenz(a,h)anthracene	1.065	0.10	2.000		53.2	38.2	120				
Fluoranthene	1.926	0.10	2.000		96.3	71.7	118				
Fluorene	1.682	0.10	2.000		84.1	65.6	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K95

ANALYTICAL QC SUMMARY REPORT

BatchID: 254887

Sample ID: **1801L87-006CMS**	Client ID:		Units: **ug/L**	Prep Date: **01/29/2018**	Run No: **362018**
SampleType: **MS**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **254887**	Analysis Date: **01/31/2018**	Seq No: **7997127**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Indeno(1,2,3-cd)pyrene	1.271	0.050	2.000		63.5	46.6	120				
Naphthalene	1.769	0.50	2.000		88.5	57.3	120				
Phenanthrene	1.737	0.050	2.000		86.8	65.6	120				
Pyrene	2.060	0.050	2.000	0.02383	102	69	121				
Surr: 4-Terphenyl-d14	2.085	0	2.000		104	59.9	128				

Sample ID: **1801L87-006CMSD**	Client ID:		Units: **ug/L**	Prep Date: **01/29/2018**	Run No: **362018**
SampleType: **MSD**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **254887**	Analysis Date: **01/31/2018**	Seq No: **7997128**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.825	0.50	2.000		91.3	61.4	120	1.865	2.15	24.4	
Acenaphthylene	1.683	1.0	2.000		84.2	63.9	120	1.768	4.91	27.9	
Anthracene	1.894	0.050	2.000		94.7	65.3	120	1.838	2.99	26.3	
Benz(a)anthracene	1.925	0.050	2.000		96.3	76.7	124	1.990	3.30	25	
Benzo(a)pyrene	1.679	0.050	2.000		83.9	58.5	120	1.711	1.94	23.5	
Benzo(b)fluoranthene	1.602	0.10	2.000		80.1	52.6	121	1.701	5.95	24	
Benzo(g,h,i)perylene	1.365	0.10	2.000		68.2	44.2	120	1.450	6.03	32.1	
Benzo(k)fluoranthene	1.909	0.050	2.000		95.4	59	120	1.916	0.372	19.6	
Chrysene	2.238	0.050	2.000		112	65	122	2.192	2.09	23	
Dibenz(a,h)anthracene	1.081	0.10	2.000		54.1	38.2	120	1.216	11.7	31.7	
Fluoranthene	2.042	0.10	2.000		102	71.7	118	2.013	1.46	23	
Fluorene	1.770	0.10	2.000		88.5	65.6	120	1.869	5.43	25	
Indeno(1,2,3-cd)pyrene	1.295	0.050	2.000		64.8	46.6	120	1.374	5.91	32.4	
Naphthalene	2.139	0.50	2.000		107	57.3	120	2.294	7.00	27.2	
Phenanthrene	1.843	0.050	2.000		92.2	65.6	120	1.841	0.107	23.5	
Pyrene	2.157	0.050	2.000	0.02383	107	69	121	2.199	1.90	23.8	
Surr: 4-Terphenyl-d14	2.397	0	2.000		120	59.9	128	2.408	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K95

ANALYTICAL QC SUMMARY REPORT

BatchID: 254954

Sample ID: **MB-254954** Client ID: Units: **ug/L** Prep Date: **01/30/2018** Run No: **361918**
SampleType: **MBLK** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **254954** Analysis Date: **01/30/2018** Seq No: **7993900**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	2.181	0	2.000		109	59.9	128				

Sample ID: **LCS-254954** Client ID: Units: **ug/L** Prep Date: **01/30/2018** Run No: **361918**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **254954** Analysis Date: **01/30/2018** Seq No: **7993901**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.903	0.50	2.000		95.2	64.7	120				
Acenaphthylene	1.835	1.0	2.000		91.7	63.2	120				
Anthracene	1.943	0.050	2.000		97.2	69.3	125				
Benz(a)anthracene	1.908	0.050	2.000		95.4	71.1	141				
Benzo(a)pyrene	1.856	0.050	2.000		92.8	67.2	131				
Benzo(b)fluoranthene	1.800	0.10	2.000		90.0	66.1	134				

Qualifiers:
> Greater than Result value
< Less than Result value
B Analyte detected in the associated method blank
BRL Below reporting limit
E Estimated (value above quantitation range)
H Holding times for preparation or analysis exceeded
J Estimated value detected below Reporting Limit
N Analyte not NELAC certified
R RPD outside limits due to matrix
Rpt Lim Reporting Limit
S Spike Recovery outside limits due to matrix

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K95

ANALYTICAL QC SUMMARY REPORT

BatchID: 254954

Sample ID: **LCS-254954** Client ID: Units: **ug/L** Prep Date: **01/30/2018** Run No: **361918**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **254954** Analysis Date: **01/30/2018** Seq No: **7993901**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(g,h,i)perylene	1.587	0.10	2.000		79.4	66.1	128				
Benzo(k)fluoranthene	2.059	0.050	2.000		103	67.7	133				
Chrysene	2.265	0.050	2.000		113	71.3	137				
Dibenz(a,h)anthracene	1.433	0.10	2.000		71.7	59.7	125				
Fluoranthene	1.980	0.10	2.000		99.0	72.3	129				
Fluorene	1.885	0.10	2.000		94.2	69.2	120				
Indeno(1,2,3-cd)pyrene	1.570	0.050	2.000		78.5	66.4	127				
Naphthalene	1.819	0.50	2.000		91.0	56.8	120				
Phenanthrene	1.865	0.050	2.000		93.3	70.9	120				
Pyrene	2.201	0.050	2.000		110	68.4	138				
Surr: 4-Terphenyl-d14	2.123	0	2.000		106	59.9	128				

Sample ID: **1801K95-012CMS** Client ID: **MW-214-0118** Units: **ug/L** Prep Date: **01/30/2018** Run No: **362100**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **254954** Analysis Date: **02/01/2018** Seq No: **7998678**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.853	0.50	2.000		92.7	61.4	120				
Acenaphthylene	1.779	1.0	2.000		88.9	63.9	120				
Anthracene	1.869	0.050	2.000		93.5	65.3	120				
Benz(a)anthracene	2.064	0.050	2.000		103	76.7	124				
Benzo(a)pyrene	1.846	0.050	2.000		92.3	58.5	120				
Benzo(b)fluoranthene	1.756	0.10	2.000		87.8	52.6	121				
Benzo(g,h,i)perylene	1.650	0.10	2.000		82.5	44.2	120				
Benzo(k)fluoranthene	1.951	0.050	2.000		97.5	59	120				
Chrysene	2.176	0.050	2.000		109	65	122				
Dibenz(a,h)anthracene	1.503	0.10	2.000		75.1	38.2	120				
Fluoranthene	2.004	0.10	2.000		100	71.7	118				
Fluorene	1.840	0.10	2.000		92.0	65.6	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K95

ANALYTICAL QC SUMMARY REPORT

BatchID: 254954

Sample ID: **1801K95-012CMS**	Client ID: **MW-214-0118**			Units: **ug/L**		Prep Date: **01/30/2018**		Run No: **362100**	
SampleType: **MS**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D**			BatchID: **254954**		Analysis Date: **02/01/2018**		Seq No: **7998678**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Indeno(1,2,3-cd)pyrene	1.587	0.050	2.000		79.3	46.6	120				
Naphthalene	1.862	0.50	2.000		93.1	57.3	120				
Phenanthrene	1.828	0.050	2.000		91.4	65.6	120				
Pyrene	2.152	0.050	2.000		108	69	121				
Surr: 4-Terphenyl-d14	2.137	0	2.000		107	59.9	128				

Sample ID: **1801K95-012CMSD**	Client ID: **MW-214-0118**			Units: **ug/L**		Prep Date: **01/30/2018**		Run No: **362100**	
SampleType: **MSD**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D**			BatchID: **254954**		Analysis Date: **02/01/2018**		Seq No: **7998679**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.831	0.50	2.000		91.5	61.4	120	1.853	1.21	24.4	
Acenaphthylene	1.766	1.0	2.000		88.3	63.9	120	1.779	0.704	27.9	
Anthracene	1.909	0.050	2.000		95.5	65.3	120	1.869	2.12	26.3	
Benz(a)anthracene	2.062	0.050	2.000		103	76.7	124	2.064	0.110	25	
Benzo(a)pyrene	1.908	0.050	2.000		95.4	58.5	120	1.846	3.31	23.5	
Benzo(b)fluoranthene	1.751	0.10	2.000		87.6	52.6	121	1.756	0.268	24	
Benzo(g,h,i)perylene	1.703	0.10	2.000		85.1	44.2	120	1.650	3.12	32.1	
Benzo(k)fluoranthene	2.029	0.050	2.000		101	59	120	1.951	3.91	19.6	
Chrysene	2.197	0.050	2.000		110	65	122	2.176	0.967	23	
Dibenz(a,h)anthracene	1.457	0.10	2.000		72.8	38.2	120	1.503	3.13	31.7	
Fluoranthene	2.023	0.10	2.000		101	71.7	118	2.004	0.955	23	
Fluorene	1.839	0.10	2.000		92.0	65.6	120	1.840	0.061	25	
Indeno(1,2,3-cd)pyrene	1.616	0.050	2.000		80.8	46.6	120	1.587	1.85	32.4	
Naphthalene	1.839	0.50	2.000		91.9	57.3	120	1.862	1.24	27.2	
Phenanthrene	1.842	0.050	2.000		92.1	65.6	120	1.828	0.764	23.5	
Pyrene	2.167	0.050	2.000		108	69	121	2.152	0.680	23.8	
Surr: 4-Terphenyl-d14	2.069	0	2.000		103	59.9	128	2.137	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K95

ANALYTICAL QC SUMMARY REPORT

BatchID: 254970

Sample ID: **MB-254970**	Client ID:			Units: **ug/L**	Prep Date: **01/29/2018**	Run No: **361926**
SampleType: **MBLK**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **254970**	Analysis Date: **01/29/2018**	Seq No: **7993590**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acetone	BRL	50									
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Ethylbenzene	BRL	5.0									
Methylene chloride	BRL	5.0									
Toluene	BRL	5.0									
Trichloroethene	BRL	5.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	37.01	0	50.00		74.0	68	127				
Surr: Dibromofluoromethane	51.64	0	50.00		103	84.4	122				
Surr: Toluene-d8	47.05	0	50.00		94.1	80.1	116				

Sample ID: **LCS-254970**	Client ID:			Units: **ug/L**	Prep Date: **01/29/2018**	Run No: **361926**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **254970**	Analysis Date: **01/29/2018**	Seq No: **7993589**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	51.98	5.0	50.00		104	73.7	126				
Toluene	50.62	5.0	50.00		101	76.8	125				
Trichloroethene	43.14	5.0	50.00		86.3	70.9	124				
Surr: 4-Bromofluorobenzene	34.56	0	50.00		69.1	68	127				
Surr: Dibromofluoromethane	49.95	0	50.00		99.9	84.4	122				
Surr: Toluene-d8	45.64	0	50.00		91.3	80.1	116				

Sample ID: **1801K95-006AMS**	Client ID: **MW-513BR-0118**			Units: **ug/L**	Prep Date: **01/29/2018**	Run No: **361940**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **254970**	Analysis Date: **01/30/2018**	Seq No: **7994371**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	50.54	5.0	50.00		101	66.1	137				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K95

ANALYTICAL QC SUMMARY REPORT

BatchID: 254970

Sample ID: **1801K95-006AMS**	Client ID: **MW-513BR-0118**	Units: **ug/L**	Prep Date: **01/29/2018**	Run No: **361940**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**	BatchID: **254970**	Analysis Date: **01/30/2018**	Seq No: **7994371**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Toluene	51.45	5.0	50.00		103	63.8	141				
Trichloroethene	49.98	5.0	50.00		100.0	70.6	128				
Surr: 4-Bromofluorobenzene	51.37	0	50.00		103	68	127				
Surr: Dibromofluoromethane	50.91	0	50.00		102	84.4	122				
Surr: Toluene-d8	51.69	0	50.00		103	80.1	116				

Sample ID: **1801K95-006AMSD**	Client ID: **MW-513BR-0118**	Units: **ug/L**	Prep Date: **01/29/2018**	Run No: **361940**
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**	BatchID: **254970**	Analysis Date: **01/30/2018**	Seq No: **7994719**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	48.93	5.0	50.00		97.9	66.1	137	50.54	3.24	20	
Toluene	50.86	5.0	50.00		102	63.8	141	51.45	1.15	20	
Trichloroethene	47.29	5.0	50.00		94.6	70.6	128	49.98	5.53	20	
Surr: 4-Bromofluorobenzene	49.09	0	50.00		98.2	68	127	51.37	0	0	
Surr: Dibromofluoromethane	50.09	0	50.00		100	84.4	122	50.91	0	0	
Surr: Toluene-d8	51.25	0	50.00		102	80.1	116	51.69	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K95

ANALYTICAL QC SUMMARY REPORT

BatchID: 255002

Sample ID: **MB-255002**	Client ID:				Units: **mg/L**		Prep Date: **01/30/2018**		Run No: **362014**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**				BatchID: **255002**		Analysis Date: **01/31/2018**		Seq No: **7995780**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-255002**	Client ID:				Units: **mg/L**		Prep Date: **01/30/2018**		Run No: **362014**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**				BatchID: **255002**		Analysis Date: **01/31/2018**		Seq No: **7995781**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003762	0.00020	0.0040		94.1	80	120				

Sample ID: **1801K95-006BMS**	Client ID: **MW-513BR-0118**				Units: **mg/L**		Prep Date: **01/30/2018**		Run No: **362014**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**				BatchID: **255002**		Analysis Date: **01/31/2018**		Seq No: **7995783**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003722	0.00020	0.0040		93.1	70	130				

Sample ID: **1801K95-006BMSD**	Client ID: **MW-513BR-0118**				Units: **mg/L**		Prep Date: **01/30/2018**		Run No: **362014**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**				BatchID: **255002**		Analysis Date: **01/31/2018**		Seq No: **7995784**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003683	0.00020	0.0040		92.1	70	130	0.003722	1.05	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K95

ANALYTICAL QC SUMMARY REPORT

BatchID: 255015

Sample ID: **MB-255015**	Client ID:					Units: **mg/L**		Prep Date: **01/30/2018**		Run No: **361957**	
SampleType: **MBLK**	TestCode: **Cyanide SW9014**					BatchID: **255015**		Analysis Date: **01/30/2018**		Seq No: **7994389**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	BRL	0.010									

Sample ID: **LCS-255015**	Client ID:					Units: **mg/L**		Prep Date: **01/30/2018**		Run No: **361957**	
SampleType: **LCS**	TestCode: **Cyanide SW9014**					BatchID: **255015**		Analysis Date: **01/30/2018**		Seq No: **7994390**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2590	0.010	0.2500		104	85	115				

Sample ID: **1801J61-006DMS**	Client ID:					Units: **mg/L**		Prep Date: **01/30/2018**		Run No: **361957**	
SampleType: **MS**	TestCode: **Cyanide SW9014**					BatchID: **255015**		Analysis Date: **01/30/2018**		Seq No: **7994395**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2530	0.010	0.2500		101	70	130				

Sample ID: **1801J61-006DMSD**	Client ID:					Units: **mg/L**		Prep Date: **01/30/2018**		Run No: **361957**	
SampleType: **MSD**	TestCode: **Cyanide SW9014**					BatchID: **255015**		Analysis Date: **01/30/2018**		Seq No: **7994396**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2510	0.010	0.2500		100	70	130	0.2530	0.794	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K95

ANALYTICAL QC SUMMARY REPORT

BatchID: 255078

Sample ID: **MB-255078**	Client ID:					Units: **mg/L**		Prep Date: **01/31/2018**		Run No: **362041**	
SampleType: **MBLK**	TestCode: **Cyanide SW9014**					BatchID: **255078**		Analysis Date: **01/31/2018**		Seq No: **7996232**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	BRL	0.010									

Sample ID: **LCS-255078**	Client ID:					Units: **mg/L**		Prep Date: **01/31/2018**		Run No: **362041**	
SampleType: **LCS**	TestCode: **Cyanide SW9014**					BatchID: **255078**		Analysis Date: **01/31/2018**		Seq No: **7996233**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2420	0.010	0.2500		96.8	85	115				

Sample ID: **1801K95-006DMS**	Client ID: **MW-513BR-0118**					Units: **mg/L**		Prep Date: **01/31/2018**		Run No: **362041**	
SampleType: **MS**	TestCode: **Cyanide SW9014**					BatchID: **255078**		Analysis Date: **01/31/2018**		Seq No: **7996247**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2500	0.010	0.2500		100	70	130				

Sample ID: **1801K95-006DMSD**	Client ID: **MW-513BR-0118**					Units: **mg/L**		Prep Date: **01/31/2018**		Run No: **362041**	
SampleType: **MSD**	TestCode: **Cyanide SW9014**					BatchID: **255078**		Analysis Date: **01/31/2018**		Seq No: **7996248**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2470	0.010	0.2500		98.8	70	130	0.2500	1.21	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801K95

ANALYTICAL QC SUMMARY REPORT

BatchID: 255098

Sample ID: **MB-255098**	Client ID:					Units: **mg/L**		Prep Date: **02/01/2018**		Run No: **362195**	
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**					BatchID: **255098**		Analysis Date: **02/02/2018**		Seq No: **8000604**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-255098**	Client ID:					Units: **mg/L**		Prep Date: **02/01/2018**		Run No: **362195**	
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**					BatchID: **255098**		Analysis Date: **02/02/2018**		Seq No: **8000605**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003862	0.00020	0.0040		96.6	80	120				

Sample ID: **1801O39-004CMS**	Client ID:					Units: **mg/L**		Prep Date: **02/01/2018**		Run No: **362195**	
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**					BatchID: **255098**		Analysis Date: **02/02/2018**		Seq No: **8000607**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003883	0.00020	0.0040		97.1	70	130				

Sample ID: **1801O39-004CMSD**	Client ID:					Units: **mg/L**		Prep Date: **02/01/2018**		Run No: **362195**	
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**					BatchID: **255098**		Analysis Date: **02/02/2018**		Seq No: **8000608**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003857	0.00020	0.0040		96.4	70	130	0.003883	0.670	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 08, 2018

John Quinn
AMEC Foster Wheeler

1075 Big Shanty Rd NW
Kennesaw GA 30144

RE: AGL - Augusta

Dear John Quinn: Order No: 1801L87

Analytical Environmental Services, Inc. received 17 samples on 1/26/2018 2:20:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.
These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ioana Pacurar

Ioana Pacurar

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1801L87

Date: 1/26/18 Page 1 of 2

COMPANY:	ADDRESS:
Wood E+I	1075 Big Shanty Rd, Ste 100 Kennesaw, GA 30144
PHONE: 770-421-3400	EMAIL:
SAMPLED BY: D Howard, M Andrews, T Parker	SIGNATURE: Daniel R Howard

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED: VOC 8260	Metals + Hg 6020/7470A	PAH SIM 8270C	CN 9014	PRESERVATION (see codes): HH	N	I	NaOH	REMARKS	Number of Containers
1	TB-03-0118	1/25/18	~~1012~~ 0930 DH	X		W	2									2
2	MW-203-0118		1012	X		GW	2	1	2	1						6
3	MW-313-0118		1123	X		GW	2	1	2	1						6
4	MW-21-0118		1257	X		GW	2	1	2	1						6
5	MW-325-0118		1457	X		GW	2	1	2	1						6
6	MW-320-0118		1612	X		GW	2	1	2	1						6
7	MW-320-0118MS/MSD		1612	X		GW	4	2	4	2						12
8	MW-319-0118		1027	X		GW	2	1	2	1						6
9	MW-4085-0118		1212	X		GW	2	1	2	1						6
10	MW-408DR-0118		1325	X		GW	2	1	2	1						6
11	MW-507BR-0118		1630	X		GW	2	1	2	1						6
12	MW-404DR-0118		1132	X		GW	2	1	2	1						6
13	MW-19-0118		1417	X		GW	2	1	2	1						6
14	DUP-03-0118		1200	X		GW	2	1	2	1						6

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Daniel R Howard	1/26/18/1420	1. Monique Arnold	1/26/18 2:20pm
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:
See attached sheet for reporting limits

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
(client) FedEx UPS US mail courier Greyhound
other: _____

PROJECT INFORMATION
PROJECT NAME: AGL Augusta
PROJECT #: 6122150235.01
SITE ADDRESS: 8th St + Walton Way Augusta, GA
SEND REPORT TO: John Quinn
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time (TAT) Request
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush (auth req.)
- [ ] Other _____

STATE PROGRAM (if any): _____
E-mail? [x] Fax? [ ]
DATA PACKAGE: I ○ II ● III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Work Order: 1801487

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Date: 1/26/18 Page 2 of 2

COMPANY: Wood E+I
ADDRESS: 1075 Big Shanty Rd, Ste 100 Kennesaw, GA 30144
PHONE: 770-421-3400
EMAIL:
SAMPLED BY: DHoward, MAndrews, TParker
SIGNATURE: Daniel L Howard

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes) H+I	N	I	NaOH	Number of Containers
1	MW-5015-0118	1/25/18	0946	X		GW	2	1	2	1	6
2	DUP-04-0118	↓	1200	X		GW	2	1	2	1	6
3	IDW-0118	1/26/18	0930	X		GW	2	1	2	1	6
4	MW-500BR-0118	1/25/18	1635	X		GW	2	1	2	1	6
5	Temp Blank										
6											
7											
8											
9											
10											
11											
12											
13											
14											

ANALYSIS REQUESTED: VOC 8260; Tmetals+Hg 6020/7470A; PAHs SIM 8270A; CN 9014

REMARKS

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY: 1. Daniel L Howard 1/26/18/1420
RECEIVED BY: 1. Miguel Arauzo 1/26/18 2:20pm

PROJECT INFORMATION
PROJECT NAME: AGL Augusta
PROJECT #: 6122150235.01
SITE ADDRESS: 8th St & Walton Way Augusta, GA
SEND REPORT TO: John Quinn
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers

Turnaround Time (TAT) Request
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush (auth req.)
- [ ] Other

STATE PROGRAM (if any):
E-mail? [x] Fax? [ ]
DATA PACKAGE: I ○ II ● III ○ IV ○

SPECIAL INSTRUCTIONS/COMMENTS: See Attache sheet For reporting limits

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
(client) FedEx UPS US mail courier Greyhound
other:

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

1801687

Table 2-3
Site-Specific Constituents of Interest
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Volatile Organic Compounds (VOCs), (SW-846 Method 8260B)		
Acetone - 50 ug/L	Ethylbenzene - 5 ug/L	Trichloroethylene - 5 ug/L
Benzene - 5 ug/L	Methylene Chloride - 5 ug/L	Xylenes (total) - 5 ug/L
Carbon Disulfide - 5 ug/L	Toluene - 5 ug/L	
Polynuclear Aromatic Hydrocarbons (SIM SW-846 Method 8270D)		
Acenaphthene - 0.5 ug/L	Benzo(g,h,i)perylene - 0.1 ug/L	Indeno(1,2,3-cd)pyrene- 0.05 ug/L
Acenaphthylene - 1 ug/L	Benzo(k)fluoranthene - 0.05 ug/L	Naphthalene- 0.5 ug/L
Anthracene - 0.05 ug/L	Chrysene - 0.05 ug/L	Phenanthrene- 0.05 ug/L
Benzo(a)anthracene - 0.05 ug/L	Dibenzo(a,h)anthracene - 0.1 ug/L	Pyrene- 0.05 ug/L
Benzo(a)pyrene - 0.05 ug/L	Fluoranthene- 0.1 ug/L	
Benzo(b)fluoranthene - 0.1 ug/L	Fluorene- 0.1 ug/L	
Inorganics (SW-846 Methods ~~6010C,~~ DH 7470A, 6020, and ~~9010/9012)~~ DH 9014		
Antimony -0 .006 mg/L	Copper - 0.01 mg/L	Vanadium - 0.01 mg/L
Arsenic - 0.05 mg/L	Lead - 0.01 mg/L	Zinc - 0.02 mg/L
Barium - 0.004 mg/L	Mercury-0.0002 mg/L	
Beryllium - 0.004 mg/L	Nickel - 0.02 mg/L	Cyanide - 0.01 mg/L
Cadmium - 0.005 mg/L	Selenium - 0.02 mg/L	
Chromium - 0.01 mg/L	Thallium - 0.002 mg/L	

DLH 7/19/16

Client: AMEC Foster Wheeler
Project: AGL - Augusta
Lab ID: 1801L87

Case Narrative

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, sample 1801L87-017A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	TB-03-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 9:30:00 AM
Lab ID:	1801L87-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Acetone	BRL	50		ug/L	255025	1	01/30/2018 17:51	NP
Benzene	BRL	5.0		ug/L	255025	1	01/30/2018 17:51	NP
Carbon disulfide	BRL	5.0		ug/L	255025	1	01/30/2018 17:51	NP
Ethylbenzene	BRL	5.0		ug/L	255025	1	01/30/2018 17:51	NP
Methylene chloride	BRL	5.0		ug/L	255025	1	01/30/2018 17:51	NP
Trichloroethene	BRL	5.0		ug/L	255025	1	01/30/2018 17:51	NP
Toluene	BRL	5.0		ug/L	255025	1	01/30/2018 17:51	NP
Xylenes, Total	BRL	5.0		ug/L	255025	1	01/30/2018 17:51	NP
Surr: 4-Bromofluorobenzene	74.7	68-127		%REC	255025	1	01/30/2018 17:51	NP
Surr: Dibromofluoromethane	98.9	84.4-122		%REC	255025	1	01/30/2018 17:51	NP
Surr: Toluene-d8	90.6	80.1-116		%REC	255025	1	01/30/2018 17:51	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-203-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 10:12:00 AM
Lab ID:	1801L87-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255025	1	01/30/2018 21:28	NP
Benzene	BRL	5.0		ug/L	255025	1	01/30/2018 21:28	NP
Carbon disulfide	BRL	5.0		ug/L	255025	1	01/30/2018 21:28	NP
Ethylbenzene	BRL	5.0		ug/L	255025	1	01/30/2018 21:28	NP
Methylene chloride	BRL	5.0		ug/L	255025	1	01/30/2018 21:28	NP
Trichloroethene	BRL	5.0		ug/L	255025	1	01/30/2018 21:28	NP
Toluene	BRL	5.0		ug/L	255025	1	01/30/2018 21:28	NP
Xylenes, Total	BRL	5.0		ug/L	255025	1	01/30/2018 21:28	NP
Surr: 4-Bromofluorobenzene	68.7	68-127		%REC	255025	1	01/30/2018 21:28	NP
Surr: Dibromofluoromethane	104	84.4-122		%REC	255025	1	01/30/2018 21:28	NP
Surr: Toluene-d8	93	80.1-116		%REC	255025	1	01/30/2018 21:28	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254868	1	02/06/2018 19:22	DP
Arsenic	BRL	0.0500		mg/L	254868	1	02/06/2018 19:22	DP
Barium	0.0755	0.00400		mg/L	254868	1	02/06/2018 19:22	DP
Beryllium	BRL	0.00400		mg/L	254868	1	02/06/2018 19:22	DP
Cadmium	BRL	0.00500		mg/L	254868	1	02/06/2018 19:22	DP
Chromium	BRL	0.0100		mg/L	254868	1	02/06/2018 19:22	DP
Copper	BRL	0.0100		mg/L	254868	1	02/06/2018 19:22	DP
Lead	BRL	0.0100		mg/L	254868	1	02/06/2018 19:22	DP
Nickel	BRL	0.0200		mg/L	254868	1	02/06/2018 19:22	DP
Selenium	BRL	0.0200		mg/L	254868	1	02/06/2018 19:22	DP
Thallium	BRL	0.00200		mg/L	254868	1	02/06/2018 19:22	DP
Vanadium	0.0228	0.0100		mg/L	254868	1	02/06/2018 19:22	DP
Zinc	BRL	0.0200		mg/L	254868	1	02/06/2018 19:22	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254887	1	01/30/2018 10:31	YH
Acenaphthylene	BRL	1.0		ug/L	254887	1	01/30/2018 10:31	YH
Acenaphthene	BRL	0.50		ug/L	254887	1	01/30/2018 10:31	YH
Fluorene	BRL	0.10		ug/L	254887	1	01/30/2018 10:31	YH
Phenanthrene	BRL	0.050		ug/L	254887	1	01/30/2018 10:31	YH
Anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 10:31	YH
Fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 10:31	YH
Pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 10:31	YH
Benz(a)anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 10:31	YH
Chrysene	BRL	0.050		ug/L	254887	1	01/30/2018 10:31	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 10:31	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254887	1	01/30/2018 10:31	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 10:31	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-203-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 10:12:00 AM
Lab ID:	1801L87-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 10:31	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254887	1	01/30/2018 10:31	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254887	1	01/30/2018 10:31	YH
Surr: 4-Terphenyl-d14	105	59.9-128		%REC	254887	1	01/30/2018 10:31	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255095	1	02/01/2018 23:13	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255078	1	02/01/2018 11:30	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-313-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 11:23:00 AM
Lab ID:	1801L87-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255025	1	01/30/2018 21:52	NP
Benzene	BRL	5.0		ug/L	255025	1	01/30/2018 21:52	NP
Carbon disulfide	BRL	5.0		ug/L	255025	1	01/30/2018 21:52	NP
Ethylbenzene	BRL	5.0		ug/L	255025	1	01/30/2018 21:52	NP
Methylene chloride	BRL	5.0		ug/L	255025	1	01/30/2018 21:52	NP
Trichloroethene	BRL	5.0		ug/L	255025	1	01/30/2018 21:52	NP
Toluene	BRL	5.0		ug/L	255025	1	01/30/2018 21:52	NP
Xylenes, Total	BRL	5.0		ug/L	255025	1	01/30/2018 21:52	NP
Surr: 4-Bromofluorobenzene	70.4	68-127		%REC	255025	1	01/30/2018 21:52	NP
Surr: Dibromofluoromethane	109	84.4-122		%REC	255025	1	01/30/2018 21:52	NP
Surr: Toluene-d8	94.2	80.1-116		%REC	255025	1	01/30/2018 21:52	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254868	1	02/07/2018 21:04	DP
Arsenic	BRL	0.0500		mg/L	254868	1	02/07/2018 21:04	DP
Barium	0.118	0.00400		mg/L	254868	1	02/07/2018 21:04	DP
Beryllium	BRL	0.00400		mg/L	254868	1	02/07/2018 21:04	DP
Cadmium	BRL	0.00500		mg/L	254868	1	02/07/2018 21:04	DP
Chromium	BRL	0.0100		mg/L	254868	1	02/07/2018 21:04	DP
Copper	BRL	0.0100		mg/L	254868	1	02/07/2018 21:04	DP
Lead	BRL	0.0100		mg/L	254868	1	02/07/2018 21:04	DP
Nickel	BRL	0.0200		mg/L	254868	1	02/07/2018 21:04	DP
Selenium	BRL	0.0200		mg/L	254868	1	02/07/2018 21:04	DP
Thallium	BRL	0.00200		mg/L	254868	1	02/07/2018 21:04	DP
Vanadium	BRL	0.0100		mg/L	254868	1	02/07/2018 21:04	DP
Zinc	0.0283	0.0200		mg/L	254868	1	02/07/2018 21:04	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254887	1	01/30/2018 10:57	YH
Acenaphthylene	BRL	1.0		ug/L	254887	1	01/30/2018 10:57	YH
Acenaphthene	BRL	0.50		ug/L	254887	1	01/30/2018 10:57	YH
Fluorene	BRL	0.10		ug/L	254887	1	01/30/2018 10:57	YH
Phenanthrene	BRL	0.050		ug/L	254887	1	01/30/2018 10:57	YH
Anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 10:57	YH
Fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 10:57	YH
Pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 10:57	YH
Benz(a)anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 10:57	YH
Chrysene	BRL	0.050		ug/L	254887	1	01/30/2018 10:57	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 10:57	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254887	1	01/30/2018 10:57	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 10:57	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-313-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 11:23:00 AM
Lab ID:	1801L87-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 10:57	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254887	1	01/30/2018 10:57	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254887	1	01/30/2018 10:57	YH
Surr: 4-Terphenyl-d14	106	59.9-128		%REC	254887	1	01/30/2018 10:57	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255095	1	02/01/2018 23:17	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255078	1	02/01/2018 11:30	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-21-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 12:57:00 PM
Lab ID:	1801L87-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255025	1	01/30/2018 22:16	NP
Benzene	BRL	5.0		ug/L	255025	1	01/30/2018 22:16	NP
Carbon disulfide	BRL	5.0		ug/L	255025	1	01/30/2018 22:16	NP
Ethylbenzene	BRL	5.0		ug/L	255025	1	01/30/2018 22:16	NP
Methylene chloride	BRL	5.0		ug/L	255025	1	01/30/2018 22:16	NP
Trichloroethene	8.3	5.0		ug/L	255025	1	01/30/2018 22:16	NP
Toluene	BRL	5.0		ug/L	255025	1	01/30/2018 22:16	NP
Xylenes, Total	BRL	5.0		ug/L	255025	1	01/30/2018 22:16	NP
Surr: 4-Bromofluorobenzene	69.9	68-127		%REC	255025	1	01/30/2018 22:16	NP
Surr: Dibromofluoromethane	94.9	84.4-122		%REC	255025	1	01/30/2018 22:16	NP
Surr: Toluene-d8	90	80.1-116		%REC	255025	1	01/30/2018 22:16	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254868	1	02/06/2018 19:26	DP
Arsenic	BRL	0.0500		mg/L	254868	1	02/06/2018 19:26	DP
Barium	0.0904	0.00400		mg/L	254868	1	02/06/2018 19:26	DP
Beryllium	BRL	0.00400		mg/L	254868	1	02/06/2018 19:26	DP
Cadmium	BRL	0.00500		mg/L	254868	1	02/06/2018 19:26	DP
Chromium	BRL	0.0100		mg/L	254868	1	02/06/2018 19:26	DP
Copper	BRL	0.0100		mg/L	254868	1	02/06/2018 19:26	DP
Lead	BRL	0.0100		mg/L	254868	1	02/06/2018 19:26	DP
Nickel	BRL	0.0200		mg/L	254868	1	02/06/2018 19:26	DP
Selenium	BRL	0.0200		mg/L	254868	1	02/06/2018 19:26	DP
Thallium	BRL	0.00200		mg/L	254868	1	02/06/2018 19:26	DP
Vanadium	BRL	0.0100		mg/L	254868	1	02/06/2018 19:26	DP
Zinc	BRL	0.0200		mg/L	254868	1	02/06/2018 19:26	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254887	1	01/30/2018 11:23	YH
Acenaphthylene	BRL	1.0		ug/L	254887	1	01/30/2018 11:23	YH
Acenaphthene	BRL	0.50		ug/L	254887	1	01/30/2018 11:23	YH
Fluorene	BRL	0.10		ug/L	254887	1	01/30/2018 11:23	YH
Phenanthrene	BRL	0.050		ug/L	254887	1	01/30/2018 11:23	YH
Anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 11:23	YH
Fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 11:23	YH
Pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 11:23	YH
Benz(a)anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 11:23	YH
Chrysene	BRL	0.050		ug/L	254887	1	01/30/2018 11:23	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 11:23	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254887	1	01/30/2018 11:23	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 11:23	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-21-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 12:57:00 PM
Lab ID:	1801L87-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 11:23	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254887	1	01/30/2018 11:23	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254887	1	01/30/2018 11:23	YH
Surr: 4-Terphenyl-d14	104	59.9-128		%REC	254887	1	01/30/2018 11:23	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255095	1	02/01/2018 23:21	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255078	1	02/01/2018 11:30	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-325-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 2:57:00 PM
Lab ID:	1801L87-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255025	1	01/30/2018 22:41	NP
Benzene	BRL	5.0		ug/L	255025	1	01/30/2018 22:41	NP
Carbon disulfide	BRL	5.0		ug/L	255025	1	01/30/2018 22:41	NP
Ethylbenzene	BRL	5.0		ug/L	255025	1	01/30/2018 22:41	NP
Methylene chloride	BRL	5.0		ug/L	255025	1	01/30/2018 22:41	NP
Trichloroethene	BRL	5.0		ug/L	255025	1	01/30/2018 22:41	NP
Toluene	BRL	5.0		ug/L	255025	1	01/30/2018 22:41	NP
Xylenes, Total	BRL	5.0		ug/L	255025	1	01/30/2018 22:41	NP
Surr: 4-Bromofluorobenzene	72.7	68-127		%REC	255025	1	01/30/2018 22:41	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	255025	1	01/30/2018 22:41	NP
Surr: Toluene-d8	93.6	80.1-116		%REC	255025	1	01/30/2018 22:41	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254868	1	02/06/2018 19:34	DP
Arsenic	BRL	0.0500		mg/L	254868	1	02/06/2018 19:34	DP
Barium	0.105	0.00400		mg/L	254868	1	02/06/2018 19:34	DP
Beryllium	BRL	0.00400		mg/L	254868	1	02/06/2018 19:34	DP
Cadmium	BRL	0.00500		mg/L	254868	1	02/06/2018 19:34	DP
Chromium	BRL	0.0100		mg/L	254868	1	02/06/2018 19:34	DP
Copper	BRL	0.0100		mg/L	254868	1	02/06/2018 19:34	DP
Lead	BRL	0.0100		mg/L	254868	1	02/06/2018 19:34	DP
Nickel	BRL	0.0200		mg/L	254868	1	02/06/2018 19:34	DP
Selenium	BRL	0.0200		mg/L	254868	1	02/06/2018 19:34	DP
Thallium	BRL	0.00200		mg/L	254868	1	02/06/2018 19:34	DP
Vanadium	BRL	0.0100		mg/L	254868	1	02/06/2018 19:34	DP
Zinc	BRL	0.0200		mg/L	254868	1	02/06/2018 19:34	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254887	1	01/30/2018 11:49	YH
Acenaphthylene	BRL	1.0		ug/L	254887	1	01/30/2018 11:49	YH
Acenaphthene	BRL	0.50		ug/L	254887	1	01/30/2018 11:49	YH
Fluorene	BRL	0.10		ug/L	254887	1	01/30/2018 11:49	YH
Phenanthrene	BRL	0.050		ug/L	254887	1	01/30/2018 11:49	YH
Anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 11:49	YH
Fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 11:49	YH
Pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 11:49	YH
Benz(a)anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 11:49	YH
Chrysene	BRL	0.050		ug/L	254887	1	01/30/2018 11:49	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 11:49	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254887	1	01/30/2018 11:49	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 11:49	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-325-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 2:57:00 PM
Lab ID:	1801L87-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 11:49	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254887	1	01/30/2018 11:49	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254887	1	01/30/2018 11:49	YH
Surr: 4-Terphenyl-d14	111	59.9-128		%REC	254887	1	01/30/2018 11:49	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255095	1	02/01/2018 23:25	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255078	1	02/01/2018 11:30	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-320-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 4:12:00 PM
Lab ID:	1801L87-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255025	1	01/30/2018 23:05	NP
Benzene	BRL	5.0		ug/L	255025	1	01/30/2018 23:05	NP
Carbon disulfide	BRL	5.0		ug/L	255025	1	01/30/2018 23:05	NP
Ethylbenzene	BRL	5.0		ug/L	255025	1	01/30/2018 23:05	NP
Methylene chloride	BRL	5.0		ug/L	255025	1	01/30/2018 23:05	NP
Trichloroethene	BRL	5.0		ug/L	255025	1	01/30/2018 23:05	NP
Toluene	BRL	5.0		ug/L	255025	1	01/30/2018 23:05	NP
Xylenes, Total	BRL	5.0		ug/L	255025	1	01/30/2018 23:05	NP
Surr: 4-Bromofluorobenzene	71.2	68-127		%REC	255025	1	01/30/2018 23:05	NP
Surr: Dibromofluoromethane	105	84.4-122		%REC	255025	1	01/30/2018 23:05	NP
Surr: Toluene-d8	93.7	80.1-116		%REC	255025	1	01/30/2018 23:05	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254868	1	02/07/2018 20:49	DP
Arsenic	BRL	0.0500		mg/L	254868	1	02/07/2018 20:49	DP
Barium	0.0136	0.00400		mg/L	254868	1	02/07/2018 20:49	DP
Beryllium	BRL	0.00400		mg/L	254868	1	02/07/2018 20:49	DP
Cadmium	BRL	0.00500		mg/L	254868	1	02/07/2018 20:49	DP
Chromium	BRL	0.0100		mg/L	254868	1	02/07/2018 20:49	DP
Copper	BRL	0.0100		mg/L	254868	1	02/07/2018 20:49	DP
Lead	BRL	0.0100		mg/L	254868	1	02/07/2018 20:49	DP
Nickel	BRL	0.0200		mg/L	254868	1	02/07/2018 20:49	DP
Selenium	BRL	0.0200		mg/L	254868	1	02/07/2018 20:49	DP
Thallium	BRL	0.00200		mg/L	254868	1	02/07/2018 20:49	DP
Vanadium	BRL	0.0100		mg/L	254868	1	02/07/2018 20:49	DP
Zinc	BRL	0.0200		mg/L	254868	1	02/07/2018 20:49	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254887	1	01/30/2018 12:15	YH
Acenaphthylene	BRL	1.0		ug/L	254887	1	01/30/2018 12:15	YH
Acenaphthene	BRL	0.50		ug/L	254887	1	01/30/2018 12:15	YH
Fluorene	BRL	0.10		ug/L	254887	1	01/30/2018 12:15	YH
Phenanthrene	BRL	0.050		ug/L	254887	1	01/30/2018 12:15	YH
Anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 12:15	YH
Fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 12:15	YH
Pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 12:15	YH
Benz(a)anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 12:15	YH
Chrysene	BRL	0.050		ug/L	254887	1	01/30/2018 12:15	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 12:15	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254887	1	01/30/2018 12:15	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 12:15	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-320-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 4:12:00 PM
Lab ID:	1801L87-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 12:15	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254887	1	01/30/2018 12:15	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254887	1	01/30/2018 12:15	YH
Surr: 4-Terphenyl-d14	99.8	59.9-128		%REC	254887	1	01/30/2018 12:15	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255095	1	02/01/2018 03:13	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255152	1	02/01/2018 15:15	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-319-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 10:27:00 AM
Lab ID:	1801L87-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255025	1	01/31/2018 00:17	NP
Benzene	BRL	5.0		ug/L	255025	1	01/31/2018 00:17	NP
Carbon disulfide	BRL	5.0		ug/L	255025	1	01/31/2018 00:17	NP
Ethylbenzene	BRL	5.0		ug/L	255025	1	01/31/2018 00:17	NP
Methylene chloride	BRL	5.0		ug/L	255025	1	01/31/2018 00:17	NP
Trichloroethene	BRL	5.0		ug/L	255025	1	01/31/2018 00:17	NP
Toluene	BRL	5.0		ug/L	255025	1	01/31/2018 00:17	NP
Xylenes, Total	BRL	5.0		ug/L	255025	1	01/31/2018 00:17	NP
Surr: 4-Bromofluorobenzene	72.2	68-127		%REC	255025	1	01/31/2018 00:17	NP
Surr: Dibromofluoromethane	95.9	84.4-122		%REC	255025	1	01/31/2018 00:17	NP
Surr: Toluene-d8	91.2	80.1-116		%REC	255025	1	01/31/2018 00:17	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254868	1	02/06/2018 19:36	DP
Arsenic	BRL	0.0500		mg/L	254868	1	02/06/2018 19:36	DP
Barium	0.835	0.00400		mg/L	254868	1	02/06/2018 19:36	DP
Beryllium	BRL	0.00400		mg/L	254868	1	02/06/2018 19:36	DP
Cadmium	BRL	0.00500		mg/L	254868	1	02/06/2018 19:36	DP
Chromium	BRL	0.0100		mg/L	254868	1	02/06/2018 19:36	DP
Copper	BRL	0.0100		mg/L	254868	1	02/06/2018 19:36	DP
Lead	BRL	0.0100		mg/L	254868	1	02/06/2018 19:36	DP
Nickel	BRL	0.0200		mg/L	254868	1	02/06/2018 19:36	DP
Selenium	BRL	0.0200		mg/L	254868	1	02/06/2018 19:36	DP
Thallium	BRL	0.00200		mg/L	254868	1	02/06/2018 19:36	DP
Vanadium	BRL	0.0100		mg/L	254868	1	02/06/2018 19:36	DP
Zinc	BRL	0.0200		mg/L	254868	1	02/06/2018 19:36	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254887	1	01/30/2018 12:41	YH
Acenaphthylene	BRL	1.0		ug/L	254887	1	01/30/2018 12:41	YH
Acenaphthene	BRL	0.50		ug/L	254887	1	01/30/2018 12:41	YH
Fluorene	BRL	0.10		ug/L	254887	1	01/30/2018 12:41	YH
Phenanthrene	BRL	0.050		ug/L	254887	1	01/30/2018 12:41	YH
Anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 12:41	YH
Fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 12:41	YH
Pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 12:41	YH
Benz(a)anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 12:41	YH
Chrysene	BRL	0.050		ug/L	254887	1	01/30/2018 12:41	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 12:41	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254887	1	01/30/2018 12:41	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 12:41	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-319-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 10:27:00 AM
Lab ID:	1801L87-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D (SW3510C)								
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 12:41	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254887	1	01/30/2018 12:41	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254887	1	01/30/2018 12:41	YH
Surr: 4-Terphenyl-d14	113	59.9-128		%REC	254887	1	01/30/2018 12:41	YH
Mercury, Total SW7470A (SW7470A)								
Mercury	BRL	0.00020		mg/L	255095	1	02/01/2018 23:29	AS
Cyanide SW9014 (SW9010C)								
Cyanide, Total	BRL	0.010		mg/L	255078	1	02/01/2018 11:30	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-408S-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 12:12:00 PM
Lab ID:	1801L87-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255025	1	01/31/2018 00:41	NP
Benzene	BRL	5.0		ug/L	255025	1	01/31/2018 00:41	NP
Carbon disulfide	BRL	5.0		ug/L	255025	1	01/31/2018 00:41	NP
Ethylbenzene	BRL	5.0		ug/L	255025	1	01/31/2018 00:41	NP
Methylene chloride	BRL	5.0		ug/L	255025	1	01/31/2018 00:41	NP
Trichloroethene	BRL	5.0		ug/L	255025	1	01/31/2018 00:41	NP
Toluene	BRL	5.0		ug/L	255025	1	01/31/2018 00:41	NP
Xylenes, Total	BRL	5.0		ug/L	255025	1	01/31/2018 00:41	NP
Surr: 4-Bromofluorobenzene	74.5	68-127		%REC	255025	1	01/31/2018 00:41	NP
Surr: Dibromofluoromethane	99.2	84.4-122		%REC	255025	1	01/31/2018 00:41	NP
Surr: Toluene-d8	91.2	80.1-116		%REC	255025	1	01/31/2018 00:41	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254868	1	02/07/2018 21:06	DP
Arsenic	0.0651	0.0500		mg/L	254868	1	02/07/2018 21:06	DP
Barium	0.441	0.00400		mg/L	254868	1	02/07/2018 21:06	DP
Beryllium	BRL	0.00400		mg/L	254868	1	02/07/2018 21:06	DP
Cadmium	BRL	0.00500		mg/L	254868	1	02/07/2018 21:06	DP
Chromium	BRL	0.0100		mg/L	254868	1	02/07/2018 21:06	DP
Copper	BRL	0.0100		mg/L	254868	1	02/07/2018 21:06	DP
Lead	BRL	0.0100		mg/L	254868	1	02/07/2018 21:06	DP
Nickel	BRL	0.0200		mg/L	254868	1	02/07/2018 21:06	DP
Selenium	BRL	0.0200		mg/L	254868	1	02/07/2018 21:06	DP
Thallium	BRL	0.00200		mg/L	254868	1	02/07/2018 21:06	DP
Vanadium	BRL	0.0100		mg/L	254868	1	02/07/2018 21:06	DP
Zinc	BRL	0.0200		mg/L	254868	1	02/07/2018 21:06	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254887	1	01/30/2018 14:54	YH
Acenaphthylene	BRL	1.0		ug/L	254887	1	01/30/2018 14:54	YH
Acenaphthene	BRL	0.50		ug/L	254887	1	01/30/2018 14:54	YH
Fluorene	BRL	0.10		ug/L	254887	1	01/30/2018 14:54	YH
Phenanthrene	BRL	0.050		ug/L	254887	1	01/30/2018 14:54	YH
Anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 14:54	YH
Fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 14:54	YH
Pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 14:54	YH
Benz(a)anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 14:54	YH
Chrysene	BRL	0.050		ug/L	254887	1	01/30/2018 14:54	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 14:54	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254887	1	01/30/2018 14:54	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 14:54	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-408S-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 12:12:00 PM
Lab ID:	1801L87-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 14:54	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254887	1	01/30/2018 14:54	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254887	1	01/30/2018 14:54	YH
Surr: 4-Terphenyl-d14	99.8	59.9-128		%REC	254887	1	01/30/2018 14:54	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255095	1	02/01/2018 23:33	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255078	1	02/01/2018 11:30	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-408DR-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 1:25:00 PM
Lab ID:	1801L87-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255025	1	01/31/2018 01:05	NP
Benzene	BRL	5.0		ug/L	255025	1	01/31/2018 01:05	NP
Carbon disulfide	BRL	5.0		ug/L	255025	1	01/31/2018 01:05	NP
Ethylbenzene	BRL	5.0		ug/L	255025	1	01/31/2018 01:05	NP
Methylene chloride	BRL	5.0		ug/L	255025	1	01/31/2018 01:05	NP
Trichloroethene	BRL	5.0		ug/L	255025	1	01/31/2018 01:05	NP
Toluene	BRL	5.0		ug/L	255025	1	01/31/2018 01:05	NP
Xylenes, Total	BRL	5.0		ug/L	255025	1	01/31/2018 01:05	NP
Surr: 4-Bromofluorobenzene	73.3	68-127		%REC	255025	1	01/31/2018 01:05	NP
Surr: Dibromofluoromethane	98.6	84.4-122		%REC	255025	1	01/31/2018 01:05	NP
Surr: Toluene-d8	89.6	80.1-116		%REC	255025	1	01/31/2018 01:05	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254868	1	02/07/2018 21:08	DP
Arsenic	BRL	0.0500		mg/L	254868	1	02/07/2018 21:08	DP
Barium	0.508	0.00400		mg/L	254868	1	02/07/2018 21:08	DP
Beryllium	BRL	0.00400		mg/L	254868	1	02/07/2018 21:08	DP
Cadmium	BRL	0.00500		mg/L	254868	1	02/07/2018 21:08	DP
Chromium	BRL	0.0100		mg/L	254868	1	02/07/2018 21:08	DP
Copper	BRL	0.0100		mg/L	254868	1	02/07/2018 21:08	DP
Lead	BRL	0.0100		mg/L	254868	1	02/07/2018 21:08	DP
Nickel	BRL	0.0200		mg/L	254868	1	02/07/2018 21:08	DP
Selenium	BRL	0.0200		mg/L	254868	1	02/07/2018 21:08	DP
Thallium	BRL	0.00200		mg/L	254868	1	02/07/2018 21:08	DP
Vanadium	BRL	0.0100		mg/L	254868	1	02/07/2018 21:08	DP
Zinc	0.0230	0.0200		mg/L	254868	1	02/07/2018 21:08	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254887	1	01/30/2018 15:20	YH
Acenaphthylene	BRL	1.0		ug/L	254887	1	01/30/2018 15:20	YH
Acenaphthene	20	5.0		ug/L	254887	10	01/31/2018 17:18	YH
Fluorene	0.73	0.10		ug/L	254887	1	01/30/2018 15:20	YH
Phenanthrene	2.8	0.050		ug/L	254887	1	01/30/2018 15:20	YH
Anthracene	0.48	0.050		ug/L	254887	1	01/30/2018 15:20	YH
Fluoranthene	0.14	0.10		ug/L	254887	1	01/30/2018 15:20	YH
Pyrene	0.11	0.050		ug/L	254887	1	01/30/2018 15:20	YH
Benz(a)anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 15:20	YH
Chrysene	BRL	0.050		ug/L	254887	1	01/30/2018 15:20	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 15:20	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254887	1	01/30/2018 15:20	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 15:20	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-408DR-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 1:25:00 PM
Lab ID:	1801L87-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 15:20	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254887	1	01/30/2018 15:20	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254887	1	01/30/2018 15:20	YH
Surr: 4-Terphenyl-d14	109	59.9-128		%REC	254887	1	01/30/2018 15:20	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255095	1	02/01/2018 23:37	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255078	1	02/01/2018 11:30	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-507BR-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 4:30:00 PM
Lab ID:	1801L87-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255025	1	01/31/2018 14:56	NP
Benzene	BRL	5.0		ug/L	255025	1	01/31/2018 14:56	NP
Carbon disulfide	BRL	5.0		ug/L	255025	1	01/31/2018 14:56	NP
Ethylbenzene	BRL	5.0		ug/L	255025	1	01/31/2018 14:56	NP
Methylene chloride	BRL	5.0		ug/L	255025	1	01/31/2018 14:56	NP
Trichloroethene	BRL	5.0		ug/L	255025	1	01/31/2018 14:56	NP
Toluene	BRL	5.0		ug/L	255025	1	01/31/2018 14:56	NP
Xylenes, Total	BRL	5.0		ug/L	255025	1	01/31/2018 14:56	NP
Surr: 4-Bromofluorobenzene	92.9	68-127		%REC	255025	1	01/31/2018 14:56	NP
Surr: Dibromofluoromethane	109	84.4-122		%REC	255025	1	01/31/2018 14:56	NP
Surr: Toluene-d8	106	80.1-116		%REC	255025	1	01/31/2018 14:56	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254868	1	02/07/2018 21:10	DP
Arsenic	BRL	0.0500		mg/L	254868	1	02/07/2018 21:10	DP
Barium	0.0763	0.00400		mg/L	254868	1	02/07/2018 21:10	DP
Beryllium	BRL	0.00400		mg/L	254868	1	02/07/2018 21:10	DP
Cadmium	BRL	0.00500		mg/L	254868	1	02/07/2018 21:10	DP
Chromium	BRL	0.0100		mg/L	254868	1	02/07/2018 21:10	DP
Copper	BRL	0.0100		mg/L	254868	1	02/07/2018 21:10	DP
Lead	BRL	0.0100		mg/L	254868	1	02/07/2018 21:10	DP
Nickel	BRL	0.0200		mg/L	254868	1	02/07/2018 21:10	DP
Selenium	BRL	0.0200		mg/L	254868	1	02/07/2018 21:10	DP
Thallium	BRL	0.00200		mg/L	254868	1	02/07/2018 21:10	DP
Vanadium	BRL	0.0100		mg/L	254868	1	02/07/2018 21:10	DP
Zinc	0.0276	0.0200		mg/L	254868	1	02/07/2018 21:10	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254887	1	01/30/2018 15:46	YH
Acenaphthylene	BRL	1.0		ug/L	254887	1	01/30/2018 15:46	YH
Acenaphthene	BRL	0.50		ug/L	254887	1	01/30/2018 15:46	YH
Fluorene	BRL	0.10		ug/L	254887	1	01/30/2018 15:46	YH
Phenanthrene	BRL	0.050		ug/L	254887	1	01/30/2018 15:46	YH
Anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 15:46	YH
Fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 15:46	YH
Pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 15:46	YH
Benz(a)anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 15:46	YH
Chrysene	BRL	0.050		ug/L	254887	1	01/30/2018 15:46	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 15:46	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254887	1	01/30/2018 15:46	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 15:46	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-507BR-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 4:30:00 PM
Lab ID:	1801L87-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 15:46	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254887	1	01/30/2018 15:46	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254887	1	01/30/2018 15:46	YH
Surr: 4-Terphenyl-d14	102	59.9-128		%REC	254887	1	01/30/2018 15:46	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255095	1	02/01/2018 23:49	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255152	1	02/01/2018 15:15	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-404DR-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 11:32:00 AM
Lab ID:	1801L87-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255025	1	01/31/2018 01:54	NP
Benzene	BRL	5.0		ug/L	255025	1	01/31/2018 01:54	NP
Carbon disulfide	BRL	5.0		ug/L	255025	1	01/31/2018 01:54	NP
Ethylbenzene	BRL	5.0		ug/L	255025	1	01/31/2018 01:54	NP
Methylene chloride	BRL	5.0		ug/L	255025	1	01/31/2018 01:54	NP
Trichloroethene	BRL	5.0		ug/L	255025	1	01/31/2018 01:54	NP
Toluene	BRL	5.0		ug/L	255025	1	01/31/2018 01:54	NP
Xylenes, Total	BRL	5.0		ug/L	255025	1	01/31/2018 01:54	NP
Surr: 4-Bromofluorobenzene	72	68-127		%REC	255025	1	01/31/2018 01:54	NP
Surr: Dibromofluoromethane	102	84.4-122		%REC	255025	1	01/31/2018 01:54	NP
Surr: Toluene-d8	93.2	80.1-116		%REC	255025	1	01/31/2018 01:54	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254868	1	02/07/2018 21:12	DP
Arsenic	BRL	0.0500		mg/L	254868	1	02/07/2018 21:12	DP
Barium	0.0832	0.00400		mg/L	254868	1	02/07/2018 21:12	DP
Beryllium	BRL	0.00400		mg/L	254868	1	02/07/2018 21:12	DP
Cadmium	BRL	0.00500		mg/L	254868	1	02/07/2018 21:12	DP
Chromium	BRL	0.0100		mg/L	254868	1	02/07/2018 21:12	DP
Copper	BRL	0.0100		mg/L	254868	1	02/07/2018 21:12	DP
Lead	BRL	0.0100		mg/L	254868	1	02/07/2018 21:12	DP
Nickel	BRL	0.0200		mg/L	254868	1	02/07/2018 21:12	DP
Selenium	BRL	0.0200		mg/L	254868	1	02/07/2018 21:12	DP
Thallium	BRL	0.00200		mg/L	254868	1	02/07/2018 21:12	DP
Vanadium	BRL	0.0100		mg/L	254868	1	02/07/2018 21:12	DP
Zinc	0.0289	0.0200		mg/L	254868	1	02/07/2018 21:12	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254887	1	01/30/2018 16:13	YH
Acenaphthylene	BRL	1.0		ug/L	254887	1	01/30/2018 16:13	YH
Acenaphthene	BRL	0.50		ug/L	254887	1	01/30/2018 16:13	YH
Fluorene	BRL	0.10		ug/L	254887	1	01/30/2018 16:13	YH
Phenanthrene	BRL	0.050		ug/L	254887	1	01/30/2018 16:13	YH
Anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 16:13	YH
Fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 16:13	YH
Pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 16:13	YH
Benz(a)anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 16:13	YH
Chrysene	BRL	0.050		ug/L	254887	1	01/30/2018 16:13	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 16:13	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254887	1	01/30/2018 16:13	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 16:13	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-404DR-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 11:32:00 AM
Lab ID:	1801L87-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 16:13	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254887	1	01/30/2018 16:13	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254887	1	01/30/2018 16:13	YH
Surr: 4-Terphenyl-d14	97.8	59.9-128		%REC	254887	1	01/30/2018 16:13	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255095	1	02/01/2018 23:53	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255152	1	02/01/2018 15:15	AK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-19-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 2:17:00 PM
Lab ID:	1801L87-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255025	1	01/31/2018 02:18	NP
Benzene	BRL	5.0		ug/L	255025	1	01/31/2018 02:18	NP
Carbon disulfide	BRL	5.0		ug/L	255025	1	01/31/2018 02:18	NP
Ethylbenzene	BRL	5.0		ug/L	255025	1	01/31/2018 02:18	NP
Methylene chloride	BRL	5.0		ug/L	255025	1	01/31/2018 02:18	NP
Trichloroethene	BRL	5.0		ug/L	255025	1	01/31/2018 02:18	NP
Toluene	BRL	5.0		ug/L	255025	1	01/31/2018 02:18	NP
Xylenes, Total	BRL	5.0		ug/L	255025	1	01/31/2018 02:18	NP
Surr: 4-Bromofluorobenzene	73.8	68-127		%REC	255025	1	01/31/2018 02:18	NP
Surr: Dibromofluoromethane	103	84.4-122		%REC	255025	1	01/31/2018 02:18	NP
Surr: Toluene-d8	90.5	80.1-116		%REC	255025	1	01/31/2018 02:18	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254868	1	02/07/2018 21:14	DP
Arsenic	BRL	0.0500		mg/L	254868	1	02/07/2018 21:14	DP
Barium	0.0856	0.00400		mg/L	254868	1	02/07/2018 21:14	DP
Beryllium	BRL	0.00400		mg/L	254868	1	02/07/2018 21:14	DP
Cadmium	BRL	0.00500		mg/L	254868	1	02/07/2018 21:14	DP
Chromium	BRL	0.0100		mg/L	254868	1	02/07/2018 21:14	DP
Copper	BRL	0.0100		mg/L	254868	1	02/07/2018 21:14	DP
Lead	BRL	0.0100		mg/L	254868	1	02/07/2018 21:14	DP
Nickel	0.0312	0.0200		mg/L	254868	1	02/07/2018 21:14	DP
Selenium	BRL	0.0200		mg/L	254868	1	02/07/2018 21:14	DP
Thallium	BRL	0.00200		mg/L	254868	1	02/07/2018 21:14	DP
Vanadium	BRL	0.0100		mg/L	254868	1	02/07/2018 21:14	DP
Zinc	0.0653	0.0200		mg/L	254868	1	02/07/2018 21:14	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254887	1	01/30/2018 16:39	YH
Acenaphthylene	BRL	1.0		ug/L	254887	1	01/30/2018 16:39	YH
Acenaphthene	BRL	0.50		ug/L	254887	1	01/30/2018 16:39	YH
Fluorene	BRL	0.10		ug/L	254887	1	01/30/2018 16:39	YH
Phenanthrene	BRL	0.050		ug/L	254887	1	01/30/2018 16:39	YH
Anthracene	0.098	0.050		ug/L	254887	1	01/30/2018 16:39	YH
Fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 16:39	YH
Pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 16:39	YH
Benz(a)anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 16:39	YH
Chrysene	BRL	0.050		ug/L	254887	1	01/30/2018 16:39	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 16:39	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254887	1	01/30/2018 16:39	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 16:39	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-19-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 2:17:00 PM
Lab ID:	1801L87-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 16:39	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254887	1	01/30/2018 16:39	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254887	1	01/30/2018 16:39	YH
Surr: 4-Terphenyl-d14	103	59.9-128		%REC	254887	1	01/30/2018 16:39	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255095	1	02/01/2018 23:57	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	0.016	0.010		mg/L	255152	1	02/01/2018 15:15	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	DUP-03-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 12:00:00 PM
Lab ID:	1801L87-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255025	1	01/31/2018 02:42	NP
Benzene	BRL	5.0		ug/L	255025	1	01/31/2018 02:42	NP
Carbon disulfide	BRL	5.0		ug/L	255025	1	01/31/2018 02:42	NP
Ethylbenzene	BRL	5.0		ug/L	255025	1	01/31/2018 02:42	NP
Methylene chloride	BRL	5.0		ug/L	255025	1	01/31/2018 02:42	NP
Trichloroethene	BRL	5.0		ug/L	255025	1	01/31/2018 02:42	NP
Toluene	BRL	5.0		ug/L	255025	1	01/31/2018 02:42	NP
Xylenes, Total	BRL	5.0		ug/L	255025	1	01/31/2018 02:42	NP
Surr: 4-Bromofluorobenzene	73.5	68-127		%REC	255025	1	01/31/2018 02:42	NP
Surr: Dibromofluoromethane	96.7	84.4-122		%REC	255025	1	01/31/2018 02:42	NP
Surr: Toluene-d8	89.3	80.1-116		%REC	255025	1	01/31/2018 02:42	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254868	1	02/07/2018 21:16	DP
Arsenic	BRL	0.0500		mg/L	254868	1	02/07/2018 21:16	DP
Barium	0.0851	0.00400		mg/L	254868	1	02/07/2018 21:16	DP
Beryllium	BRL	0.00400		mg/L	254868	1	02/07/2018 21:16	DP
Cadmium	BRL	0.00500		mg/L	254868	1	02/07/2018 21:16	DP
Chromium	BRL	0.0100		mg/L	254868	1	02/07/2018 21:16	DP
Copper	BRL	0.0100		mg/L	254868	1	02/07/2018 21:16	DP
Lead	BRL	0.0100		mg/L	254868	1	02/07/2018 21:16	DP
Nickel	0.0322	0.0200		mg/L	254868	1	02/07/2018 21:16	DP
Selenium	BRL	0.0200		mg/L	254868	1	02/07/2018 21:16	DP
Thallium	BRL	0.00200		mg/L	254868	1	02/07/2018 21:16	DP
Vanadium	BRL	0.0100		mg/L	254868	1	02/07/2018 21:16	DP
Zinc	0.0630	0.0200		mg/L	254868	1	02/07/2018 21:16	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254887	1	01/30/2018 17:05	YH
Acenaphthylene	BRL	1.0		ug/L	254887	1	01/30/2018 17:05	YH
Acenaphthene	BRL	0.50		ug/L	254887	1	01/30/2018 17:05	YH
Fluorene	BRL	0.10		ug/L	254887	1	01/30/2018 17:05	YH
Phenanthrene	BRL	0.050		ug/L	254887	1	01/30/2018 17:05	YH
Anthracene	0.099	0.050		ug/L	254887	1	01/30/2018 17:05	YH
Fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 17:05	YH
Pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 17:05	YH
Benz(a)anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 17:05	YH
Chrysene	BRL	0.050		ug/L	254887	1	01/30/2018 17:05	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 17:05	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254887	1	01/30/2018 17:05	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 17:05	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	DUP-03-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 12:00:00 PM
Lab ID:	1801L87-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 17:05	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254887	1	01/30/2018 17:05	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254887	1	01/30/2018 17:05	YH
Surr: 4-Terphenyl-d14	109	59.9-128		%REC	254887	1	01/30/2018 17:05	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255095	1	02/02/2018 00:01	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	0.016	0.010		mg/L	255152	1	02/01/2018 15:15	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-501S-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 9:46:00 AM
Lab ID:	1801L87-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255025	1	01/31/2018 03:06	NP
Benzene	BRL	5.0		ug/L	255025	1	01/31/2018 03:06	NP
Carbon disulfide	BRL	5.0		ug/L	255025	1	01/31/2018 03:06	NP
Ethylbenzene	BRL	5.0		ug/L	255025	1	01/31/2018 03:06	NP
Methylene chloride	BRL	5.0		ug/L	255025	1	01/31/2018 03:06	NP
Trichloroethene	BRL	5.0		ug/L	255025	1	01/31/2018 03:06	NP
Toluene	BRL	5.0		ug/L	255025	1	01/31/2018 03:06	NP
Xylenes, Total	BRL	5.0		ug/L	255025	1	01/31/2018 03:06	NP
Surr: 4-Bromofluorobenzene	72.5	68-127		%REC	255025	1	01/31/2018 03:06	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	255025	1	01/31/2018 03:06	NP
Surr: Toluene-d8	90.4	80.1-116		%REC	255025	1	01/31/2018 03:06	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254868	1	02/06/2018 19:49	DP
Arsenic	BRL	0.0500		mg/L	254868	1	02/06/2018 19:49	DP
Barium	0.0930	0.00400		mg/L	254868	1	02/06/2018 19:49	DP
Beryllium	BRL	0.00400		mg/L	254868	1	02/06/2018 19:49	DP
Cadmium	BRL	0.00500		mg/L	254868	1	02/06/2018 19:49	DP
Chromium	BRL	0.0100		mg/L	254868	1	02/06/2018 19:49	DP
Copper	BRL	0.0100		mg/L	254868	1	02/06/2018 19:49	DP
Lead	BRL	0.0100		mg/L	254868	1	02/06/2018 19:49	DP
Nickel	BRL	0.0200		mg/L	254868	1	02/06/2018 19:49	DP
Selenium	BRL	0.0200		mg/L	254868	1	02/06/2018 19:49	DP
Thallium	BRL	0.00200		mg/L	254868	1	02/06/2018 19:49	DP
Vanadium	BRL	0.0100		mg/L	254868	1	02/06/2018 19:49	DP
Zinc	BRL	0.0200		mg/L	254868	1	02/06/2018 19:49	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254887	1	01/30/2018 17:31	YH
Acenaphthylene	BRL	1.0		ug/L	254887	1	01/30/2018 17:31	YH
Acenaphthene	BRL	0.50		ug/L	254887	1	01/30/2018 17:31	YH
Fluorene	BRL	0.10		ug/L	254887	1	01/30/2018 17:31	YH
Phenanthrene	BRL	0.050		ug/L	254887	1	01/30/2018 17:31	YH
Anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 17:31	YH
Fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 17:31	YH
Pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 17:31	YH
Benz(a)anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 17:31	YH
Chrysene	BRL	0.050		ug/L	254887	1	01/30/2018 17:31	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 17:31	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254887	1	01/30/2018 17:31	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 17:31	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-501S-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 9:46:00 AM
Lab ID:	1801L87-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 17:31	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254887	1	01/30/2018 17:31	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254887	1	01/30/2018 17:31	YH
Surr: 4-Terphenyl-d14	101	59.9-128		%REC	254887	1	01/30/2018 17:31	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255095	1	02/02/2018 00:04	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255152	1	02/01/2018 15:15	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	DUP-04-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 12:00:00 PM
Lab ID:	1801L87-015	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255025	1	01/31/2018 03:30	NP
Benzene	BRL	5.0		ug/L	255025	1	01/31/2018 03:30	NP
Carbon disulfide	BRL	5.0		ug/L	255025	1	01/31/2018 03:30	NP
Ethylbenzene	BRL	5.0		ug/L	255025	1	01/31/2018 03:30	NP
Methylene chloride	BRL	5.0		ug/L	255025	1	01/31/2018 03:30	NP
Trichloroethene	BRL	5.0		ug/L	255025	1	01/31/2018 03:30	NP
Toluene	BRL	5.0		ug/L	255025	1	01/31/2018 03:30	NP
Xylenes, Total	BRL	5.0		ug/L	255025	1	01/31/2018 03:30	NP
Surr: 4-Bromofluorobenzene	69.9	68-127		%REC	255025	1	01/31/2018 03:30	NP
Surr: Dibromofluoromethane	99.3	84.4-122		%REC	255025	1	01/31/2018 03:30	NP
Surr: Toluene-d8	90.4	80.1-116		%REC	255025	1	01/31/2018 03:30	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254868	1	02/07/2018 21:18	DP
Arsenic	BRL	0.0500		mg/L	254868	1	02/07/2018 21:18	DP
Barium	0.0813	0.00400		mg/L	254868	1	02/07/2018 21:18	DP
Beryllium	BRL	0.00400		mg/L	254868	1	02/07/2018 21:18	DP
Cadmium	BRL	0.00500		mg/L	254868	1	02/07/2018 21:18	DP
Chromium	BRL	0.0100		mg/L	254868	1	02/07/2018 21:18	DP
Copper	BRL	0.0100		mg/L	254868	1	02/07/2018 21:18	DP
Lead	BRL	0.0100		mg/L	254868	1	02/07/2018 21:18	DP
Nickel	BRL	0.0200		mg/L	254868	1	02/07/2018 21:18	DP
Selenium	BRL	0.0200		mg/L	254868	1	02/07/2018 21:18	DP
Thallium	BRL	0.00200		mg/L	254868	1	02/07/2018 21:18	DP
Vanadium	BRL	0.0100		mg/L	254868	1	02/07/2018 21:18	DP
Zinc	BRL	0.0200		mg/L	254868	1	02/07/2018 21:18	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	254887	1	01/30/2018 17:57	YH
Acenaphthylene	BRL	1.0		ug/L	254887	1	01/30/2018 17:57	YH
Acenaphthene	BRL	0.50		ug/L	254887	1	01/30/2018 17:57	YH
Fluorene	BRL	0.10		ug/L	254887	1	01/30/2018 17:57	YH
Phenanthrene	BRL	0.050		ug/L	254887	1	01/30/2018 17:57	YH
Anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 17:57	YH
Fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 17:57	YH
Pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 17:57	YH
Benz(a)anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 17:57	YH
Chrysene	BRL	0.050		ug/L	254887	1	01/30/2018 17:57	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 17:57	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254887	1	01/30/2018 17:57	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 17:57	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	DUP-04-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 12:00:00 PM
Lab ID:	1801L87-015	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 17:57	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254887	1	01/30/2018 17:57	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254887	1	01/30/2018 17:57	YH
Surr: 4-Terphenyl-d14	102	59.9-128		%REC	254887	1	01/30/2018 17:57	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255095	1	02/02/2018 00:08	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255152	1	02/01/2018 15:15	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	IDW-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/26/2018 9:30:00 AM
Lab ID:	1801L87-016	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	255025	1	01/31/2018 03:55	NP
Benzene	400	50		ug/L	255025	10	01/31/2018 18:03	NP
Carbon disulfide	BRL	5.0		ug/L	255025	1	01/31/2018 03:55	NP
Ethylbenzene	47	5.0		ug/L	255025	1	01/31/2018 03:55	NP
Methylene chloride	BRL	5.0		ug/L	255025	1	01/31/2018 03:55	NP
Trichloroethene	BRL	5.0		ug/L	255025	1	01/31/2018 03:55	NP
Toluene	5.4	5.0		ug/L	255025	1	01/31/2018 03:55	NP
Xylenes, Total	21	5.0		ug/L	255025	1	01/31/2018 03:55	NP
Surr: 4-Bromofluorobenzene	79.9	68-127		%REC	255025	1	01/31/2018 03:55	NP
Surr: 4-Bromofluorobenzene	95.1	68-127		%REC	255025	10	01/31/2018 18:03	NP
Surr: Dibromofluoromethane	89.1	84.4-122		%REC	255025	1	01/31/2018 03:55	NP
Surr: Dibromofluoromethane	107	84.4-122		%REC	255025	10	01/31/2018 18:03	NP
Surr: Toluene-d8	84.4	80.1-116		%REC	255025	1	01/31/2018 03:55	NP
Surr: Toluene-d8	105	80.1-116		%REC	255025	10	01/31/2018 18:03	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254868	1	02/07/2018 21:25	DP
Arsenic	BRL	0.0500		mg/L	254868	1	02/07/2018 21:25	DP
Barium	0.239	0.00400		mg/L	254868	1	02/07/2018 21:25	DP
Beryllium	BRL	0.00400		mg/L	254868	1	02/07/2018 21:25	DP
Cadmium	BRL	0.00500		mg/L	254868	1	02/07/2018 21:25	DP
Chromium	BRL	0.0100		mg/L	254868	1	02/07/2018 21:25	DP
Copper	BRL	0.0100		mg/L	254868	1	02/07/2018 21:25	DP
Lead	BRL	0.0100		mg/L	254868	1	02/07/2018 21:25	DP
Nickel	BRL	0.0200		mg/L	254868	1	02/07/2018 21:25	DP
Selenium	BRL	0.0200		mg/L	254868	1	02/07/2018 21:25	DP
Thallium	BRL	0.00200		mg/L	254868	1	02/07/2018 21:25	DP
Vanadium	BRL	0.0100		mg/L	254868	1	02/07/2018 21:25	DP
Zinc	0.0216	0.0200		mg/L	254868	1	02/07/2018 21:25	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	1.6	0.50		ug/L	254887	1	01/30/2018 20:05	YH
Acenaphthylene	BRL	1.0		ug/L	254887	1	01/30/2018 20:05	YH
Acenaphthene	9.1	0.50		ug/L	254887	1	01/30/2018 20:05	YH
Fluorene	1.7	0.10		ug/L	254887	1	01/30/2018 20:05	YH
Phenanthrene	1.2	0.050		ug/L	254887	1	01/30/2018 20:05	YH
Anthracene	0.23	0.050		ug/L	254887	1	01/30/2018 20:05	YH
Fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 20:05	YH
Pyrene	0.11	0.050		ug/L	254887	1	01/30/2018 20:05	YH
Benz(a)anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 20:05	YH
Chrysene	BRL	0.050		ug/L	254887	1	01/30/2018 20:05	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	IDW-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/26/2018 9:30:00 AM
Lab ID:	1801L87-016	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Benzo(b)fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 20:05	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254887	1	01/30/2018 20:05	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 20:05	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 20:05	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254887	1	01/30/2018 20:05	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254887	1	01/30/2018 20:05	YH
Surr: 4-Terphenyl-d14	98.3	59.9-128		%REC	254887	1	01/30/2018 20:05	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255095	1	02/02/2018 00:12	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255152	1	02/01/2018 15:15	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-500BR-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 4:35:00 PM
Lab ID:	1801L87-017	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	2500		ug/L	255025	50	01/30/2018 18:15	NP
Benzene	17000	500		ug/L	255025	100	01/31/2018 20:00	NP
Carbon disulfide	BRL	250		ug/L	255025	50	01/30/2018 18:15	NP
Ethylbenzene	1800	250		ug/L	255025	50	01/30/2018 18:15	NP
Methylene chloride	BRL	250		ug/L	255025	50	01/30/2018 18:15	NP
Trichloroethene	BRL	250		ug/L	255025	50	01/30/2018 18:15	NP
Toluene	BRL	250		ug/L	255025	50	01/30/2018 18:15	NP
Xylenes, Total	320	250		ug/L	255025	50	01/30/2018 18:15	NP
Surr: 4-Bromofluorobenzene	76.9	68-127		%REC	255025	50	01/30/2018 18:15	NP
Surr: 4-Bromofluorobenzene	97.1	68-127		%REC	255025	100	01/31/2018 20:00	NP
Surr: Dibromofluoromethane	89.4	84.4-122		%REC	255025	50	01/30/2018 18:15	NP
Surr: Dibromofluoromethane	106	84.4-122		%REC	255025	100	01/31/2018 20:00	NP
Surr: Toluene-d8	84.8	80.1-116		%REC	255025	50	01/30/2018 18:15	NP
Surr: Toluene-d8	104	80.1-116		%REC	255025	100	01/31/2018 20:00	NP
Total Metals by ICP/MS SW6020B				**(SW3005A)**				
Antimony	BRL	0.00600		mg/L	254868	1	02/06/2018 20:00	DP
Arsenic	BRL	0.0500		mg/L	254868	1	02/06/2018 20:00	DP
Barium	0.640	0.00400		mg/L	254868	1	02/06/2018 20:00	DP
Beryllium	BRL	0.00400		mg/L	254868	1	02/06/2018 20:00	DP
Cadmium	BRL	0.00500		mg/L	254868	1	02/06/2018 20:00	DP
Chromium	BRL	0.0100		mg/L	254868	1	02/06/2018 20:00	DP
Copper	BRL	0.0100		mg/L	254868	1	02/06/2018 20:00	DP
Lead	BRL	0.0100		mg/L	254868	1	02/06/2018 20:00	DP
Nickel	BRL	0.0200		mg/L	254868	1	02/06/2018 20:00	DP
Selenium	BRL	0.0200		mg/L	254868	1	02/06/2018 20:00	DP
Thallium	BRL	0.00200		mg/L	254868	1	02/06/2018 20:00	DP
Vanadium	BRL	0.0100		mg/L	254868	1	02/06/2018 20:00	DP
Zinc	BRL	0.0200		mg/L	254868	1	02/06/2018 20:00	DP
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	3900	500		ug/L	254887	1000	01/31/2018 18:36	YH
Acenaphthylene	1.5	1.0		ug/L	254887	1	01/30/2018 20:30	YH
Acenaphthene	110	50		ug/L	254887	100	01/31/2018 18:11	YH
Fluorene	16	10		ug/L	254887	100	01/31/2018 18:11	YH
Phenanthrene	17	5.0		ug/L	254887	100	01/31/2018 18:11	YH
Anthracene	3.2	0.050		ug/L	254887	1	01/30/2018 20:30	YH
Fluoranthene	1.2	0.10		ug/L	254887	1	01/30/2018 20:30	YH
Pyrene	1.7	0.050		ug/L	254887	1	01/30/2018 20:30	YH
Benz(a)anthracene	BRL	0.050		ug/L	254887	1	01/30/2018 20:30	YH
Chrysene	BRL	0.050		ug/L	254887	1	01/30/2018 20:30	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	AMEC Foster Wheeler	**Client Sample ID:**	MW-500BR-0118
Project Name:	AGL - Augusta	**Collection Date:**	1/25/2018 4:35:00 PM
Lab ID:	1801L87-017	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Benzo(b)fluoranthene	BRL	0.10		ug/L	254887	1	01/30/2018 20:30	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	254887	1	01/30/2018 20:30	YH
Benzo(a)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 20:30	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	254887	1	01/30/2018 20:30	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	254887	1	01/30/2018 20:30	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	254887	1	01/30/2018 20:30	YH
Surr: 4-Terphenyl-d14	112	59.9-128		%REC	254887	1	01/30/2018 20:30	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	255095	1	02/02/2018 00:16	AS
Cyanide SW9014				**(SW9010C)**				
Cyanide, Total	BRL	0.010		mg/L	255152	1	02/01/2018 15:15	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 8-Feb-18

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: MW-203-0118				**Lab ID:** 1801L87-002			
Collection Date: 1/25/2018 10:12:00 AM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.0755		0.000185	0.00400	mg/L	254868	1
Vanadium	0.0228		0.000170	0.0100	mg/L	254868	1
Client Sample ID: MW-313-0118				**Lab ID:** 1801L87-003			
Collection Date: 1/25/2018 11:23:00 AM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.118		0.000185	0.00400	mg/L	254868	1
Zinc	0.0283		0.000580	0.0200	mg/L	254868	1
Client Sample ID: MW-21-0118				**Lab ID:** 1801L87-004			
Collection Date: 1/25/2018 12:57:00 PM				**Matrix:** Groundwater			
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**			
Trichloroethene	8.3		0.30	5.0	ug/L	255025	1
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.0904		0.000185	0.00400	mg/L	254868	1
Client Sample ID: MW-325-0118				**Lab ID:** 1801L87-005			
Collection Date: 1/25/2018 2:57:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.105		0.000185	0.00400	mg/L	254868	1
Client Sample ID: MW-320-0118				**Lab ID:** 1801L87-006			
Collection Date: 1/25/2018 4:12:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.0136		0.000185	0.00400	mg/L	254868	1
Client Sample ID: MW-319-0118				**Lab ID:** 1801L87-007			
Collection Date: 1/25/2018 10:27:00 AM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.835		0.000185	0.00400	mg/L	254868	1
Client Sample ID: MW-408S-0118				**Lab ID:** 1801L87-008			
Collection Date: 1/25/2018 12:12:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Arsenic	0.0651		0.000156	0.0500	mg/L	254868	1
Barium	0.441		0.000185	0.00400	mg/L	254868	1
Client Sample ID: MW-408DR-0118				**Lab ID:** 1801L87-009			
Collection Date: 1/25/2018 1:25:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.508		0.000185	0.00400	mg/L	254868	1
Zinc	0.0230		0.000580	0.0200	mg/L	254868	1
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Acenaphthene	20		0.17	5.0	ug/L	254887	10
Fluorene	0.73		0.019	0.10	ug/L	254887	1
Phenanthrene	2.8		0.022	0.050	ug/L	254887	1
Anthracene	0.48		0.026	0.050	ug/L	254887	1
Fluoranthene	0.14		0.016	0.10	ug/L	254887	1
Pyrene	0.11		0.015	0.050	ug/L	254887	1

Analytical Environmental Services, Inc

Date: 8-Feb-18

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: MW-507BR-0118				**Lab ID:** 1801L87-010			
Collection Date: 1/25/2018 4:30:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.0763		0.000185	0.00400	mg/L	254868	1
Zinc	0.0276		0.000580	0.0200	mg/L	254868	1
Client Sample ID: MW-404DR-0118				**Lab ID:** 1801L87-011			
Collection Date: 1/25/2018 11:32:00 AM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.0832		0.000185	0.00400	mg/L	254868	1
Zinc	0.0289		0.000580	0.0200	mg/L	254868	1
Client Sample ID: MW-19-0118				**Lab ID:** 1801L87-012			
Collection Date: 1/25/2018 2:17:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.0856		0.000185	0.00400	mg/L	254868	1
Nickel	0.0312		0.000210	0.0200	mg/L	254868	1
Zinc	0.0653		0.000580	0.0200	mg/L	254868	1
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Anthracene	0.098		0.026	0.050	ug/L	254887	1
Cyanide SW9014				**(SW9010C)**			
Cyanide, Total	0.016		0.00470	0.010	mg/L	255152	1
Client Sample ID: DUP-03-0118				**Lab ID:** 1801L87-013			
Collection Date: 1/25/2018 12:00:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.0851		0.000185	0.00400	mg/L	254868	1
Nickel	0.0322		0.000210	0.0200	mg/L	254868	1
Zinc	0.0630		0.000580	0.0200	mg/L	254868	1
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Anthracene	0.099		0.026	0.050	ug/L	254887	1
Cyanide SW9014				**(SW9010C)**			
Cyanide, Total	0.016		0.00470	0.010	mg/L	255152	1
Client Sample ID: MW-501S-0118				**Lab ID:** 1801L87-014			
Collection Date: 1/25/2018 9:46:00 AM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.0930		0.000185	0.00400	mg/L	254868	1
Client Sample ID: DUP-04-0118				**Lab ID:** 1801L87-015			
Collection Date: 1/25/2018 12:00:00 PM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.0813		0.000185	0.00400	mg/L	254868	1
Client Sample ID: IDW-0118				**Lab ID:** 1801L87-016			
Collection Date: 1/26/2018 9:30:00 AM				**Matrix:** Groundwater			
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**			
Benzene	400		3.7	50	ug/L	255025	10
Ethylbenzene	47		0.26	5.0	ug/L	255025	1
Toluene	5.4		0.39	5.0	ug/L	255025	1
Xylenes, Total	21		0.77	5.0	ug/L	255025	1

Analytical Environmental Services, Inc

Date: 8-Feb-18

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: IDW-0118				**Lab ID:** 1801L87-016			
Collection Date: 1/26/2018 9:30:00 AM				**Matrix:** Groundwater			
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.239		0.000185	0.00400	mg/L	254868	1
Zinc	0.0216		0.000580	0.0200	mg/L	254868	1
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Naphthalene	1.6		0.0072	0.50	ug/L	254887	1
Acenaphthene	9.1		0.017	0.50	ug/L	254887	1
Fluorene	1.7		0.019	0.10	ug/L	254887	1
Phenanthrene	1.2		0.022	0.050	ug/L	254887	1
Anthracene	0.23		0.026	0.050	ug/L	254887	1
Pyrene	0.11		0.015	0.050	ug/L	254887	1
Client Sample ID: MW-500BR-0118				**Lab ID:** 1801L87-017			
Collection Date: 1/25/2018 4:35:00 PM				**Matrix:** Groundwater			
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**			
Benzene	17000		37	500	ug/L	255025	100
Ethylbenzene	1800		13	250	ug/L	255025	50
Xylenes, Total	320		38	250	ug/L	255025	50
Total Metals by ICP/MS SW6020B				**(SW3005A)**			
Barium	0.640		0.000185	0.00400	mg/L	254868	1
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**			
Naphthalene	3900		7.2	500	ug/L	254887	1000
Acenaphthylene	1.5		0.020	1.0	ug/L	254887	1
Acenaphthene	110		1.7	50	ug/L	254887	100
Fluorene	16		1.9	10	ug/L	254887	100
Phenanthrene	17		2.2	5.0	ug/L	254887	100
Anthracene	3.2		0.026	0.050	ug/L	254887	1
Fluoranthene	1.2		0.016	0.10	ug/L	254887	1
Pyrene	1.7		0.015	0.050	ug/L	254887	1

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **AMEC Foster Wheeler** AES Work Order Number: **1801L87**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ■ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	●	○	○		
5.	Custody seals intact on shipping container?	●	○	○		
6.	Temperature blanks present?	●	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	●	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	●	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	●	○	○		
10.	Sampler name and/or signature on COC?	●	○	○		
11.	Were all samples received within holding time?	●	○	○		
12.	TAT marked on the COC?	●	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 1.6 °C Cooler 2 Temperature 2.1 °C Cooler 3 Temperature 1.8 °C Cooler 4 Temperature 0.9 °C

14. Cooler 5 Temperature 2.0 °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MJ 1/26/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	●	○	○		
17.	Custody seals present on sample containers?	○	●	○		
18.	Custody seals intact on sample containers?	○	○	●		
19.	Do sample container labels match the COC?	●	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	●	○	○		
21.	Were all of the samples listed on the COC received?	●	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	●	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	●	○	○		
24.	Were samples received in appropriate containers?	●	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	●	○	○		
26.	Were trip blanks submitted?	●	○	○	listed on COC ☐ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MJ 1/26/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	●	○	○		
29.	Containers meet preservation guidelines?	●	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	●		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MJ 1/26/18

Checklist 6.9.17 Rev 2

Locked

Analytical Environmental Services, Inc

Date: 8-Feb-18

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Lab Order: 1801L87

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1801L87-001A	TB-03-0118	1/25/2018 9:30:00AM	Aqueous	Volatile Organic Compounds by GC/MS		1/30/2018 5:02:00PM	01/30/2018
1801L87-002A	MW-203-0118	1/25/2018 10:12:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 5:02:00PM	01/30/2018
1801L87-002B	MW-203-0118	1/25/2018 10:12:00AM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/06/2018
1801L87-002B	MW-203-0118	1/25/2018 10:12:00AM	Groundwater	TOTAL MERCURY		1/31/2018 8:03:00PM	02/01/2018
1801L87-002C	MW-203-0118	1/25/2018 10:12:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/30/2018
1801L87-002D	MW-203-0118	1/25/2018 10:12:00AM	Groundwater	Cyanide		2/1/2018 11:00:00AM	02/01/2018
1801L87-003A	MW-313-0118	1/25/2018 11:23:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 5:02:00PM	01/30/2018
1801L87-003B	MW-313-0118	1/25/2018 11:23:00AM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/07/2018
1801L87-003B	MW-313-0118	1/25/2018 11:23:00AM	Groundwater	TOTAL MERCURY		1/31/2018 8:03:00PM	02/01/2018
1801L87-003C	MW-313-0118	1/25/2018 11:23:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/30/2018
1801L87-003D	MW-313-0118	1/25/2018 11:23:00AM	Groundwater	Cyanide		2/1/2018 11:00:00AM	02/01/2018
1801L87-004A	MW-21-0118	1/25/2018 12:57:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 5:02:00PM	01/30/2018
1801L87-004B	MW-21-0118	1/25/2018 12:57:00PM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/06/2018
1801L87-004B	MW-21-0118	1/25/2018 12:57:00PM	Groundwater	TOTAL MERCURY		1/31/2018 8:03:00PM	02/01/2018
1801L87-004C	MW-21-0118	1/25/2018 12:57:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/30/2018
1801L87-004D	MW-21-0118	1/25/2018 12:57:00PM	Groundwater	Cyanide		2/1/2018 11:00:00AM	02/01/2018
1801L87-005A	MW-325-0118	1/25/2018 2:57:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 5:02:00PM	01/30/2018
1801L87-005B	MW-325-0118	1/25/2018 2:57:00PM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/06/2018
1801L87-005B	MW-325-0118	1/25/2018 2:57:00PM	Groundwater	TOTAL MERCURY		1/31/2018 8:03:00PM	02/01/2018
1801L87-005C	MW-325-0118	1/25/2018 2:57:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/30/2018
1801L87-005D	MW-325-0118	1/25/2018 2:57:00PM	Groundwater	Cyanide		2/1/2018 11:00:00AM	02/01/2018
1801L87-006A	MW-320-0118	1/25/2018 4:12:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 5:02:00PM	01/30/2018
1801L87-006B	MW-320-0118	1/25/2018 4:12:00PM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/07/2018
1801L87-006B	MW-320-0118	1/25/2018 4:12:00PM	Groundwater	TOTAL MERCURY		1/31/2018 8:03:00PM	02/01/2018
1801L87-006C	MW-320-0118	1/25/2018 4:12:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/30/2018
1801L87-006D	MW-320-0118	1/25/2018 4:12:00PM	Groundwater	Cyanide		2/1/2018 2:00:00PM	02/01/2018
1801L87-007A	MW-319-0118	1/25/2018 10:27:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 5:02:00PM	01/31/2018
1801L87-007B	MW-319-0118	1/25/2018 10:27:00AM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/06/2018
1801L87-007B	MW-319-0118	1/25/2018 10:27:00AM	Groundwater	TOTAL MERCURY		1/31/2018 8:03:00PM	02/01/2018

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Lab Order: 1801L87

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1801L87-007C	MW-319-0118	1/25/2018 10:27:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/30/2018
1801L87-007D	MW-319-0118	1/25/2018 10:27:00AM	Groundwater	Cyanide		2/1/2018 11:00:00AM	02/01/2018
1801L87-008A	MW-408S-0118	1/25/2018 12:12:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 5:02:00PM	01/31/2018
1801L87-008B	MW-408S-0118	1/25/2018 12:12:00PM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/07/2018
1801L87-008B	MW-408S-0118	1/25/2018 12:12:00PM	Groundwater	TOTAL MERCURY		1/31/2018 8:03:00PM	02/01/2018
1801L87-008C	MW-408S-0118	1/25/2018 12:12:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/30/2018
1801L87-008D	MW-408S-0118	1/25/2018 12:12:00PM	Groundwater	Cyanide		2/1/2018 11:00:00AM	02/01/2018
1801L87-009A	MW-408DR-0118	1/25/2018 1:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 5:02:00PM	01/31/2018
1801L87-009B	MW-408DR-0118	1/25/2018 1:25:00PM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/07/2018
1801L87-009B	MW-408DR-0118	1/25/2018 1:25:00PM	Groundwater	TOTAL MERCURY		1/31/2018 8:03:00PM	02/01/2018
1801L87-009C	MW-408DR-0118	1/25/2018 1:25:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/30/2018
1801L87-009C	MW-408DR-0118	1/25/2018 1:25:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/31/2018
1801L87-009D	MW-408DR-0118	1/25/2018 1:25:00PM	Groundwater	Cyanide		2/1/2018 11:00:00AM	02/01/2018
1801L87-010A	MW-507BR-0118	1/25/2018 4:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 5:02:00PM	01/31/2018
1801L87-010B	MW-507BR-0118	1/25/2018 4:30:00PM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/07/2018
1801L87-010B	MW-507BR-0118	1/25/2018 4:30:00PM	Groundwater	TOTAL MERCURY		1/31/2018 8:03:00PM	02/01/2018
1801L87-010C	MW-507BR-0118	1/25/2018 4:30:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/30/2018
1801L87-010D	MW-507BR-0118	1/25/2018 4:30:00PM	Groundwater	Cyanide		2/1/2018 2:00:00PM	02/01/2018
1801L87-011A	MW-404DR-0118	1/25/2018 11:32:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 5:02:00PM	01/31/2018
1801L87-011B	MW-404DR-0118	1/25/2018 11:32:00AM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/07/2018
1801L87-011B	MW-404DR-0118	1/25/2018 11:32:00AM	Groundwater	TOTAL MERCURY		1/31/2018 8:03:00PM	02/01/2018
1801L87-011C	MW-404DR-0118	1/25/2018 11:32:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/30/2018
1801L87-011D	MW-404DR-0118	1/25/2018 11:32:00AM	Groundwater	Cyanide		2/1/2018 2:00:00PM	02/01/2018
1801L87-012A	MW-19-0118	1/25/2018 2:17:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 5:02:00PM	01/31/2018
1801L87-012B	MW-19-0118	1/25/2018 2:17:00PM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/07/2018
1801L87-012B	MW-19-0118	1/25/2018 2:17:00PM	Groundwater	TOTAL MERCURY		1/31/2018 8:03:00PM	02/01/2018
1801L87-012C	MW-19-0118	1/25/2018 2:17:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/30/2018
1801L87-012D	MW-19-0118	1/25/2018 2:17:00PM	Groundwater	Cyanide		2/1/2018 2:00:00PM	02/01/2018
1801L87-013A	DUP-03-0118	1/25/2018 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 5:02:00PM	01/31/2018

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Lab Order: 1801L87

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1801L87-013B	DUP-03-0118	1/25/2018 12:00:00PM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/07/2018
1801L87-013B	DUP-03-0118	1/25/2018 12:00:00PM	Groundwater	TOTAL MERCURY		1/31/2018 8:03:00PM	02/02/2018
1801L87-013C	DUP-03-0118	1/25/2018 12:00:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/30/2018
1801L87-013D	DUP-03-0118	1/25/2018 12:00:00PM	Groundwater	Cyanide		2/1/2018 2:00:00PM	02/01/2018
1801L87-014A	MW-501S-0118	1/25/2018 9:46:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 5:02:00PM	01/31/2018
1801L87-014B	MW-501S-0118	1/25/2018 9:46:00AM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/06/2018
1801L87-014B	MW-501S-0118	1/25/2018 9:46:00AM	Groundwater	TOTAL MERCURY		1/31/2018 8:03:00PM	02/02/2018
1801L87-014C	MW-501S-0118	1/25/2018 9:46:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/30/2018
1801L87-014D	MW-501S-0118	1/25/2018 9:46:00AM	Groundwater	Cyanide		2/1/2018 2:00:00PM	02/01/2018
1801L87-015A	DUP-04-0118	1/25/2018 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 5:02:00PM	01/31/2018
1801L87-015B	DUP-04-0118	1/25/2018 12:00:00PM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/07/2018
1801L87-015B	DUP-04-0118	1/25/2018 12:00:00PM	Groundwater	TOTAL MERCURY		1/31/2018 8:03:00PM	02/02/2018
1801L87-015C	DUP-04-0118	1/25/2018 12:00:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/30/2018
1801L87-015D	DUP-04-0118	1/25/2018 12:00:00PM	Groundwater	Cyanide		2/1/2018 2:00:00PM	02/01/2018
1801L87-016A	IDW-0118	1/26/2018 9:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 5:02:00PM	01/31/2018
1801L87-016B	IDW-0118	1/26/2018 9:30:00AM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/07/2018
1801L87-016B	IDW-0118	1/26/2018 9:30:00AM	Groundwater	TOTAL MERCURY		1/31/2018 8:03:00PM	02/02/2018
1801L87-016C	IDW-0118	1/26/2018 9:30:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/30/2018
1801L87-016D	IDW-0118	1/26/2018 9:30:00AM	Groundwater	Cyanide		2/1/2018 2:00:00PM	02/01/2018
1801L87-017A	MW-500BR-0118	1/25/2018 4:35:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 5:02:00PM	01/30/2018
1801L87-017A	MW-500BR-0118	1/25/2018 4:35:00PM	Groundwater	Volatile Organic Compounds by GC/MS		1/30/2018 5:02:00PM	01/31/2018
1801L87-017B	MW-500BR-0118	1/25/2018 4:35:00PM	Groundwater	Total Metals by ICP/MS		1/30/2018 12:31:00PM	02/06/2018
1801L87-017B	MW-500BR-0118	1/25/2018 4:35:00PM	Groundwater	TOTAL MERCURY		1/31/2018 8:03:00PM	02/02/2018
1801L87-017C	MW-500BR-0118	1/25/2018 4:35:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/30/2018
1801L87-017C	MW-500BR-0118	1/25/2018 4:35:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		1/29/2018 1:30:00PM	01/31/2018
1801L87-017D	MW-500BR-0118	1/25/2018 4:35:00PM	Groundwater	Cyanide		2/1/2018 2:00:00PM	02/01/2018

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801L87

ANALYTICAL QC SUMMARY REPORT

BatchID: 254868

Sample ID: **MB-254868** Client ID: Units: **mg/L** Prep Date: **01/30/2018** Run No: **362521**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **254868** Analysis Date: **02/07/2018** Seq No: **8009913**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.00500									
Arsenic	BRL	0.00500									
Barium	BRL	0.0100									
Beryllium	BRL	0.00100									
Cadmium	BRL	0.000700									
Chromium	BRL	0.00500									
Copper	BRL	0.00200									
Lead	BRL	0.00100									
Nickel	BRL	0.00500									
Selenium	BRL	0.00500									
Thallium	BRL	0.00100									
Vanadium	BRL	0.00500									
Zinc	BRL	0.0100									

Sample ID: **LCS-254868** Client ID: Units: **mg/L** Prep Date: **01/30/2018** Run No: **362521**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **254868** Analysis Date: **02/07/2018** Seq No: **8009915**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.09826	0.00500	0.1000	0.0002716	98.0	80	120				
Arsenic	0.09058	0.00500	0.1000	0.0004589	90.1	80	120				
Barium	0.09637	0.0100	0.1000		96.4	80	120				
Beryllium	0.09280	0.00100	0.1000		92.8	80	120				
Cadmium	0.09488	0.000700	0.1000		94.9	80	120				
Chromium	0.1015	0.00500	0.1000	0.0006006	101	80	120				
Copper	0.1076	0.00200	0.1000	0.0002896	107	80	120				
Lead	0.1010	0.00100	0.1000		101	80	120				
Nickel	0.1044	0.00500	0.1000		104	80	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801L87

ANALYTICAL QC SUMMARY REPORT

BatchID: 254868

Sample ID: **LCS-254868** Client ID: Units: **mg/L** Prep Date: **01/30/2018** Run No: **362521**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **254868** Analysis Date: **02/07/2018** Seq No: **8009915**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Selenium	0.09597	0.00500	0.1000		96.0	80	120				
Thallium	0.1017	0.00100	0.1000		102	80	120				
Vanadium	0.09872	0.00500	0.1000		98.7	80	120				
Zinc	0.09676	0.0100	0.1000	0.007253	89.5	80	120				

Sample ID: **1801L87-006BMS** Client ID: **MW-320-0118** Units: **mg/L** Prep Date: **01/30/2018** Run No: **362521**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **254868** Analysis Date: **02/07/2018** Seq No: **8009919**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1016	0.00500	0.1000	0.0005716	101	75	125				
Arsenic	0.09167	0.00500	0.1000	0.0006107	91.1	75	125				
Barium	0.1126	0.0100	0.1000	0.01361	99.0	75	125				
Beryllium	0.09648	0.00100	0.1000		96.5	75	125				
Cadmium	0.09681	0.000700	0.1000	0.001954	94.9	75	125				
Chromium	0.1062	0.00500	0.1000	0.002284	104	75	125				
Copper	0.1108	0.00200	0.1000	0.001806	109	75	125				
Lead	0.1044	0.00100	0.1000		104	75	125				
Nickel	0.1073	0.00500	0.1000	0.0003528	107	75	125				
Selenium	0.09460	0.00500	0.1000		94.6	75	125				
Thallium	0.1064	0.00100	0.1000		106	75	125				
Vanadium	0.1033	0.00500	0.1000		103	75	125				
Zinc	0.09295	0.0100	0.1000	0.003692	89.3	75	125				

Sample ID: **1801L87-006BMSD** Client ID: **MW-320-0118** Units: **mg/L** Prep Date: **01/30/2018** Run No: **362521**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **254868** Analysis Date: **02/07/2018** Seq No: **8009921**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1007	0.00500	0.1000	0.0005716	100	75	125	0.1016	0.905	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801L87

ANALYTICAL QC SUMMARY REPORT

BatchID: 254868

Sample ID: **1801L87-006BMSD** Client ID: **MW-320-0118** Units: **mg/L** Prep Date: **01/30/2018** Run No: **362521**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020B** BatchID: **254868** Analysis Date: **02/07/2018** Seq No: **8009921**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09170	0.00500	0.1000	0.0006107	91.1	75	125	0.09167	0.029	20	
Barium	0.1123	0.0100	0.1000	0.01361	98.7	75	125	0.1126	0.265	20	
Beryllium	0.09738	0.00100	0.1000		97.4	75	125	0.09648	0.925	20	
Cadmium	0.09888	0.000700	0.1000	0.001954	96.9	75	125	0.09681	2.12	20	
Chromium	0.1064	0.00500	0.1000	0.002284	104	75	125	0.1062	0.235	20	
Copper	0.1128	0.00200	0.1000	0.001806	111	75	125	0.1108	1.79	20	
Lead	0.1054	0.00100	0.1000		105	75	125	0.1044	0.997	20	
Nickel	0.1088	0.00500	0.1000	0.0003528	108	75	125	0.1073	1.30	20	
Selenium	0.09617	0.00500	0.1000		96.2	75	125	0.09460	1.65	20	
Thallium	0.1066	0.00100	0.1000		107	75	125	0.1064	0.158	20	
Vanadium	0.1029	0.00500	0.1000		103	75	125	0.1033	0.406	20	
Zinc	0.09375	0.0100	0.1000	0.003692	90.1	75	125	0.09295	0.856	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801L87

ANALYTICAL QC SUMMARY REPORT

BatchID: 254887

Sample ID: **MB-254887**	Client ID:		Units: **ug/L**	Prep Date: **01/29/2018**	Run No: **361918**
SampleType: **MBLK**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **254887**	Analysis Date: **01/30/2018**	Seq No: **7993426**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	BRL	0.50									
Acenaphthylene	BRL	1.0									
Anthracene	BRL	0.050									
Benz(a)anthracene	BRL	0.050									
Benzo(a)pyrene	BRL	0.050									
Benzo(b)fluoranthene	BRL	0.10									
Benzo(g,h,i)perylene	BRL	0.10									
Benzo(k)fluoranthene	BRL	0.050									
Chrysene	BRL	0.050									
Dibenz(a,h)anthracene	BRL	0.10									
Fluoranthene	BRL	0.10									
Fluorene	BRL	0.10									
Indeno(1,2,3-cd)pyrene	BRL	0.050									
Naphthalene	BRL	0.50									
Phenanthrene	BRL	0.050									
Pyrene	BRL	0.050									
Surr: 4-Terphenyl-d14	2.477	0	2.000		124	59.9	128				

Sample ID: **LCS-254887**	Client ID:		Units: **ug/L**	Prep Date: **01/29/2018**	Run No: **361918**
SampleType: **LCS**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**		BatchID: **254887**	Analysis Date: **01/30/2018**	Seq No: **7993427**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.689	0.50	2.000		84.4	64.7	120				
Acenaphthylene	1.608	1.0	2.000		80.4	63.2	120				
Anthracene	1.775	0.050	2.000		88.7	69.3	125				
Benz(a)anthracene	1.845	0.050	2.000		92.3	71.1	141				
Benzo(a)pyrene	1.732	0.050	2.000		86.6	67.2	131				
Benzo(b)fluoranthene	1.686	0.10	2.000		84.3	66.1	134				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801L87

ANALYTICAL QC SUMMARY REPORT

BatchID: 254887

Sample ID: **LCS-254887** Client ID: Units: **ug/L** Prep Date: **01/29/2018** Run No: **361918**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **254887** Analysis Date: **01/30/2018** Seq No: **7993427**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(g,h,i)perylene	1.556	0.10	2.000		77.8	66.1	128				
Benzo(k)fluoranthene	1.837	0.050	2.000		91.8	67.7	133				
Chrysene	2.030	0.050	2.000		102	71.3	137				
Dibenz(a,h)anthracene	1.534	0.10	2.000		76.7	59.7	125				
Fluoranthene	1.837	0.10	2.000		91.8	72.3	129				
Fluorene	1.660	0.10	2.000		83.0	69.2	120				
Indeno(1,2,3-cd)pyrene	1.491	0.050	2.000		74.5	66.4	127				
Naphthalene	2.218	0.50	2.000		111	56.8	120				
Phenanthrene	1.685	0.050	2.000		84.3	70.9	120				
Pyrene	1.959	0.050	2.000	0.03070	96.4	68.4	138				
Surr: 4-Terphenyl-d14	2.384	0	2.000		119	59.9	128				

Sample ID: **1801L87-006CMS** Client ID: **MW-320-0118** Units: **ug/L** Prep Date: **01/29/2018** Run No: **362018**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **254887** Analysis Date: **01/31/2018** Seq No: **7997127**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.748	0.50	2.000		87.4	61.4	120				
Acenaphthylene	1.615	1.0	2.000		80.7	63.9	120				
Anthracene	1.717	0.050	2.000		85.9	65.3	120				
Benz(a)anthracene	1.832	0.050	2.000		91.6	76.7	124				
Benzo(a)pyrene	1.652	0.050	2.000		82.6	58.5	120				
Benzo(b)fluoranthene	1.594	0.10	2.000		79.7	52.6	121				
Benzo(g,h,i)perylene	1.444	0.10	2.000		72.2	44.2	120				
Benzo(k)fluoranthene	1.918	0.050	2.000		95.9	59	120				
Chrysene	2.139	0.050	2.000		107	65	122				
Dibenz(a,h)anthracene	1.065	0.10	2.000		53.2	38.2	120				
Fluoranthene	1.926	0.10	2.000		96.3	71.7	118				
Fluorene	1.682	0.10	2.000		84.1	65.6	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801L87

ANALYTICAL QC SUMMARY REPORT

BatchID: 254887

Sample ID: **1801L87-006CMS**	Client ID: **MW-320-0118**			Units: **ug/L**	Prep Date: **01/29/2018**	Run No: **362018**
SampleType: **MS**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**			BatchID: **254887**	Analysis Date: **01/31/2018**	Seq No: **7997127**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Indeno(1,2,3-cd)pyrene	1.271	0.050	2.000		63.5	46.6	120				
Naphthalene	1.769	0.50	2.000		88.5	57.3	120				
Phenanthrene	1.737	0.050	2.000		86.8	65.6	120				
Pyrene	2.060	0.050	2.000	0.02383	102	69	121				
Surr: 4-Terphenyl-d14	2.085	0	2.000		104	59.9	128				

Sample ID: **1801L87-006CMSD**	Client ID: **MW-320-0118**			Units: **ug/L**	Prep Date: **01/29/2018**	Run No: **362018**
SampleType: **MSD**	TestCode: **SIM Polynuclear Aromatic Hydrocarbons** **SW8270D**			BatchID: **254887**	Analysis Date: **01/31/2018**	Seq No: **7997128**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.825	0.50	2.000		91.3	61.4	120	1.865	2.15	24.4	
Acenaphthylene	1.683	1.0	2.000		84.2	63.9	120	1.768	4.91	27.9	
Anthracene	1.894	0.050	2.000		94.7	65.3	120	1.838	2.99	26.3	
Benz(a)anthracene	1.925	0.050	2.000		96.3	76.7	124	1.990	3.30	25	
Benzo(a)pyrene	1.679	0.050	2.000		83.9	58.5	120	1.711	1.94	23.5	
Benzo(b)fluoranthene	1.602	0.10	2.000		80.1	52.6	121	1.701	5.95	24	
Benzo(g,h,i)perylene	1.365	0.10	2.000		68.2	44.2	120	1.450	6.03	32.1	
Benzo(k)fluoranthene	1.909	0.050	2.000		95.4	59	120	1.916	0.372	19.6	
Chrysene	2.238	0.050	2.000		112	65	122	2.192	2.09	23	
Dibenz(a,h)anthracene	1.081	0.10	2.000		54.1	38.2	120	1.216	11.7	31.7	
Fluoranthene	2.042	0.10	2.000		102	71.7	118	2.013	1.46	23	
Fluorene	1.770	0.10	2.000		88.5	65.6	120	1.869	5.43	25	
Indeno(1,2,3-cd)pyrene	1.295	0.050	2.000		64.8	46.6	120	1.374	5.91	32.4	
Naphthalene	2.139	0.50	2.000		107	57.3	120	2.294	7.00	27.2	
Phenanthrene	1.843	0.050	2.000		92.2	65.6	120	1.841	0.107	23.5	
Pyrene	2.157	0.050	2.000	0.02383	107	69	121	2.199	1.90	23.8	
Surr: 4-Terphenyl-d14	2.397	0	2.000		120	59.9	128	2.408	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801L87

ANALYTICAL QC SUMMARY REPORT

BatchID: 255025

Sample ID: **MB-255025** Client ID: Units: **ug/L** Prep Date: **01/30/2018** Run No: **361967**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **255025** Analysis Date: **01/30/2018** Seq No: **7994753**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acetone	BRL	50									
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Ethylbenzene	BRL	5.0									
Methylene chloride	BRL	5.0									
Toluene	BRL	5.0									
Trichloroethene	BRL	5.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	36.26	0	50.00		72.5	68	127				
Surr: Dibromofluoromethane	49.65	0	50.00		99.3	84.4	122				
Surr: Toluene-d8	46.58	0	50.00		93.2	80.1	116				

Sample ID: **LCS-255025** Client ID: Units: **ug/L** Prep Date: **01/30/2018** Run No: **361967**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **255025** Analysis Date: **01/30/2018** Seq No: **7994752**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	53.65	5.0	50.00		107	73.7	126				
Toluene	54.12	5.0	50.00		108	76.8	125				
Trichloroethene	45.44	5.0	50.00		90.9	70.9	124				
Surr: 4-Bromofluorobenzene	37.94	0	50.00		75.9	68	127				
Surr: Dibromofluoromethane	46.05	0	50.00		92.1	84.4	122				
Surr: Toluene-d8	44.57	0	50.00		89.1	80.1	116				

Sample ID: **1801L87-006AMS** Client ID: **MW-320-0118** Units: **ug/L** Prep Date: **01/30/2018** Run No: **361967**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **255025** Analysis Date: **01/30/2018** Seq No: **7994768**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	58.58	5.0	50.00		117	66.1	137				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801L87

ANALYTICAL QC SUMMARY REPORT

BatchID: 255025

Sample ID: **1801L87-006AMS**	Client ID: **MW-320-0118**	Units: **ug/L**	Prep Date: **01/30/2018**	Run No: **361967**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**	BatchID: **255025**	Analysis Date: **01/30/2018**	Seq No: **7994768**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Toluene	55.59	5.0	50.00		111	63.8	141				
Trichloroethene	48.32	5.0	50.00		96.6	70.6	128				
Surr: 4-Bromofluorobenzene	35.85	0	50.00		71.7	68	127				
Surr: Dibromofluoromethane	47.81	0	50.00		95.6	84.4	122				
Surr: Toluene-d8	43.02	0	50.00		86.0	80.1	116				

Sample ID: **1801L87-006AMSD**	Client ID: **MW-320-0118**	Units: **ug/L**	Prep Date: **01/30/2018**	Run No: **361967**
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**	BatchID: **255025**	Analysis Date: **01/30/2018**	Seq No: **7994769**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	57.79	5.0	50.00		116	66.1	137	58.58	1.36	20	
Toluene	58.73	5.0	50.00		117	63.8	141	55.59	5.49	20	
Trichloroethene	49.75	5.0	50.00		99.5	70.6	128	48.32	2.92	20	
Surr: 4-Bromofluorobenzene	34.47	0	50.00		68.9	68	127	35.85	0	0	
Surr: Dibromofluoromethane	48.23	0	50.00		96.5	84.4	122	47.81	0	0	
Surr: Toluene-d8	44.62	0	50.00		89.2	80.1	116	43.02	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801L87

ANALYTICAL QC SUMMARY REPORT

BatchID: 255078

Sample ID: **MB-255078**	Client ID:					Units: **mg/L**		Prep Date: **01/31/2018**		Run No: **362041**	
SampleType: **MBLK**	TestCode: **Cyanide SW9014**					BatchID: **255078**		Analysis Date: **01/31/2018**		Seq No: **7996232**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	BRL	0.010									

Sample ID: **LCS-255078**	Client ID:					Units: **mg/L**		Prep Date: **01/31/2018**		Run No: **362041**	
SampleType: **LCS**	TestCode: **Cyanide SW9014**					BatchID: **255078**		Analysis Date: **01/31/2018**		Seq No: **7996233**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2420	0.010	0.2500		96.8	85	115				

Sample ID: **1801K95-006DMS**	Client ID:					Units: **mg/L**		Prep Date: **01/31/2018**		Run No: **362041**	
SampleType: **MS**	TestCode: **Cyanide SW9014**					BatchID: **255078**		Analysis Date: **01/31/2018**		Seq No: **7996247**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2500	0.010	0.2500		100	70	130				

Sample ID: **1801K95-006DMSD**	Client ID:					Units: **mg/L**		Prep Date: **01/31/2018**		Run No: **362041**	
SampleType: **MSD**	TestCode: **Cyanide SW9014**					BatchID: **255078**		Analysis Date: **01/31/2018**		Seq No: **7996248**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2470	0.010	0.2500		98.8	70	130	0.2500	1.21	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801L87

ANALYTICAL QC SUMMARY REPORT

BatchID: 255095

Sample ID: **MB-255095**	Client ID:				Units: **mg/L**		Prep Date: **01/31/2018**		Run No: **362200**
SampleType: **MBLK**	TestCode: **Mercury, Total SW7470A**				BatchID: **255095**		Analysis Date: **02/01/2018**		Seq No: **8000487**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-255095**	Client ID:				Units: **mg/L**		Prep Date: **01/31/2018**		Run No: **362200**
SampleType: **LCS**	TestCode: **Mercury, Total SW7470A**				BatchID: **255095**		Analysis Date: **02/01/2018**		Seq No: **8000488**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003769	0.00020	0.0044		85.7	80	120				

Sample ID: **1801L87-006BMS**	Client ID: **MW-320-0118**				Units: **mg/L**		Prep Date: **01/31/2018**		Run No: **362200**
SampleType: **MS**	TestCode: **Mercury, Total SW7470A**				BatchID: **255095**		Analysis Date: **02/01/2018**		Seq No: **8000490**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003750	0.00020	0.0040		93.7	70	130				

Sample ID: **1801L87-006BMSD**	Client ID: **MW-320-0118**				Units: **mg/L**		Prep Date: **01/31/2018**		Run No: **362200**
SampleType: **MSD**	TestCode: **Mercury, Total SW7470A**				BatchID: **255095**		Analysis Date: **02/01/2018**		Seq No: **8000491**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003731	0.00020	0.0040		93.3	70	130	0.003750	0.495	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC Foster Wheeler
Project Name: AGL - Augusta
Workorder: 1801L87

ANALYTICAL QC SUMMARY REPORT

BatchID: 255152

Sample ID: **MB-255152**	Client ID:				Units: **mg/L**		Prep Date: **02/01/2018**		Run No: **362137**
SampleType: **MBLK**	TestCode: **Cyanide SW9014**				BatchID: **255152**		Analysis Date: **02/01/2018**		Seq No: **7998889**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	BRL	0.010									

Sample ID: **LCS-255152**	Client ID:				Units: **mg/L**		Prep Date: **02/01/2018**		Run No: **362137**
SampleType: **LCS**	TestCode: **Cyanide SW9014**				BatchID: **255152**		Analysis Date: **02/01/2018**		Seq No: **7998890**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2310	0.010	0.2500		92.4	85	115				

Sample ID: **1801L87-006DMS**	Client ID: **MW-320-0118**				Units: **mg/L**		Prep Date: **02/01/2018**		Run No: **362137**
SampleType: **MS**	TestCode: **Cyanide SW9014**				BatchID: **255152**		Analysis Date: **02/01/2018**		Seq No: **7998902**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2630	0.010	0.2500		105	70	130				

Sample ID: **1801L87-006DMSD**	Client ID: **MW-320-0118**				Units: **mg/L**		Prep Date: **02/01/2018**		Run No: **362137**
SampleType: **MSD**	TestCode: **Cyanide SW9014**				BatchID: **255152**		Analysis Date: **02/01/2018**		Seq No: **7998903**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2610	0.010	0.2500		104	70	130	0.2630	0.763	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

APPENDIX C

SEEPAGE VELOCITY CALCULATIONS

Appendix C
Seepage Velocity Calculations
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Hydrogeologic Unit	Hydraulic Conductivity (cm/sec)	Porosity (unitless)	January 22, 2018		Monitoring wells used for gradient calculations
			Gradient	Velocity (ft/day)	
Alluvium	1.170E-03	2.10E-01	1.55E-02	2.4E-01	MW-17 & 126 contour
Galliard	1.500E-04	2.60E-01	1.80E-02	2.9E-02	MW-207; MW-505D; MW-304
Galliard	1.500E-04	2.60E-01	2.42E-03	4.0E-03	MW-21; MW-24; MW-203
Galliard	1.500E-04	2.60E-01	1.85E-03	3.0E-03	MW-21; MW-22; MW-25
Saprolite	8.980E-06	8.00E-02	3.42E-03	1.1E-03	MW-306SAP; MW-310SAP; MW-214
Bedrock*	9.348E-04	1.42E-02	1.98E-03	3.7E-01	MW-325; MW-318; MW-315
Bedrock*	9.348E-04	1.42E-02	1.21E-03	2.3E-01	MW-306BR; MW-313; MW-309BR
Bedrock*	9.348E-04	6.00E-01	1.98E-03	8.7E-03	MW-325; MW-318; MW-315
Bedrock*	9.348E-04	6.00E-01	1.21E-03	5.3E-03	MW-306BR; MW-313; MW-309BR

*Bedrock porosity range taken from Applied Hydrogeology 4th Ed., Fetter, 2001
Multiple bedrock and Galliard gradients are presented from different areas of the site.
Porosities used in velocity calculations are average specific yield values published in USGS Water Supply Paper 1662-D
Vs=Ki/n
where:
Vs=seepage velocity (velocity)
K=horizontal hydraulic conductivity
i=horizontal hydraulic gradient (gradient)
n=porosity

Prepared by/date: JMQ 3/13/2018
Checked by/date: NJM 3/15/2018

N

MW-408S
125.21*

MW-501S
125.25

MW-306S
124.31

MW-402S
124.83

MW-17
127.74

MW-05
126.90

126

125

127

Northern Parcel

Western Parcel

Southern Parcel

MW-408S was not used for contouring

Walton Way

9th Street

Fenwick Street

8th Street

D'Antignac Street

Taylor Street

King Street

Gradient Calculation			
Points	Distance	Rise	Gradient
MW-17 and 126 Contour	112.5	1.74	0.01547

Legend

- Monitoring Well - Alluvium
- 127.74 Groundwater Elevation (Feet MSL)
- Groundwater Elevation Contour (feet MSL)
- Dashed where inferred
- Groundwater Flow Direction
- Flow Line Used for Groundwater Gradient Estimation
- ISCO (In-Situ Chemical Oxidation) Area
- ISS (In-Situ Solidification) Area
- Parcels
- Parcel Boundary

Notes:
MW-306S is in a Depth Discrete Sampling Port (DDSP) well.
*MW-408S was not used for contouring

MSL - Mean Sea Level

NM - Not Measured

0 225 450 Feet

Atlanta Gas Light Company
Former Manufactured Gas Plant
23rd Semiannual Corrective Action Effectiveness Report - January 2018 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

Groundwater Elevation Map for the Alluvium January 22, 2018

Prepared by/Date: RD - 5/23/2018	wood.	Figure: C-1
Checked by/Date: JMQ - 5/23/2018		
Project Number: 6122150235		

Document Path: G:\AGL_Augusta\mxds\Augusta_23rd_Semi_Annual_CAER_Report\Groundwater_Elevation_Map_Alluvium.mxd

N

MW-408DR
125.35

MW-607
124.46

MW-603
124.46

9th Street

Fenwick Street

MW-404DR
125.30

MW-306D
123.61

Walton Way

8th Street

MW-24
122.91

MW-21
121.35

$\frac{dh}{dl} = \frac{122.5-121.5}{413} = 0.002421$

MW-310D
125.23

MW-402D
124.85

Northern Parcel

Walton Way

MW-211
NM

MW-19
128.13

D'Antignac Street

9th Street

MW-203
123.35

MW-22
123.31

Western Parcel

Southern Parcel

MW-12
123.28

King Street

Taylor Street

MW-25
123.19

$\frac{dh}{dl} = \frac{123-122}{540} = 0.00185$

MW-206
123.42

MW-207
127.19

MW-309D
123.07

$\frac{dh}{dl} = \frac{126-125}{55.5} = 0.01802$

MW-505D
124.15

MW-304
122.67

MW-303
122.75

8th Street

MW-602
122.45

Legend

- Monitoring Well - Galliard
- 123.31 Groundwater Elevation (Feet MSL)
- Flow Line Used for Groundwater Gradient Estimation
- ISCO (In-Situ Chemical Oxidation) Area
- ISS (In-Situ Solidification) Area
- Parcels

Notes:
MW-306D, MW-309D and MW-310D are in Depth Discrete Sampling Port (DDSP) wells.

MSL - Mean Sea Level

NM - Not Measured

0 225 450 Feet

Atlanta Gas Light Company
Former Manufactured Gas Plant
23rd Semiannual Corrective Action Effectiveness Report - January 2018 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

3-Point Gradient Estimation for the Galliard
January 22, 2018

Prepared by/Date: RD - 5/23/2018	
Checked by/Date: JMQ - 5/23/2018	
Project Number: 6122150235	

wood.

Figure:
C-2

Document Path: G:\AGL_Augusta\mxds\Augusta_23rd_Semi_Annual_CAER_Report\Three_Point_Gradient_Galliard.mxd

N

MW-317
121.95

MW-306SAP
124.01

124

MW-310SAP
125.43

Northern Parcel

123.5

Walton Way

124

123.5

Western Parcel

D'Antignac Street

MW-214
123.03

Taylor Street

MW-311
123.21

King Street

Southern Parcel

MW-309SAP
124.02

9th Street

Fenwick Street

8th Street

Walton Way

9th Street

8th Street

$$\frac{dh}{dl} = \frac{124-123.5}{146} = 0.003425$$

Legend

- Monitoring Well - Saprolite
- 123.21 Groundwater Elevation (Feet MSL)
- Flow Line Used for Groundwater Gradient Estimation
- ISCO (In-Situ Chemical Oxidation) Area
- ISS (In-Situ Solidification) Area
- Parcels

Notes:
MW-306SAP, MW-309SAP and MW-310SAP are in Depth Discrete Sampling Port (DDSP) wells.

MSL - Mean Sea Level

0 200 400 Feet

Document Path: G:\AGL_Augusta\mxds\Augusta_23rd_Semi_Annual_CAER_Report\Three_Point_Gradient_Saprolite.mxd

Atlanta Gas Light Company
Former Manufactured Gas Plant
23rd Semiannual Corrective Action Effectiveness Report - January 2018 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

3-Point Gradient Estimation for the Saprolite January 22, 2018

Prepared by/Date: RD - 5/23/2018	wood.	Figure: C-3
Checked by/Date: JMQ - 5/23/2018		
Project Number: 6122150235		

N

MW-319
123.66

MW-320
123.03

MW-318
122.96

MW-315
123.97

$\frac{dh}{dl} = \frac{122.5-122}{252} = 0.00198$

122.5

122.5

122

122

MW-513BR
123.18

MW-325
121.71

9th Street

Fenwick Street

MW-306BR
123.48

MW-306TZ
123.56

Walton Way

8th Street

123

MW-310TZ
124.13

MW-310BR
123.87

Northern Parcel

123

122.5

MW-313
122.42

Walton Way

D'Antignac Street

Western Parcel

$\frac{dh}{dl} = \frac{123-122.5}{412.5} = 0.00121$

122.5

9th Street

MW-500BR
123.60

Taylor Street

Southern Parcel

MW-508BR
123.10

King Street

MW-309BR
122.00

MW-309TZ
124.23

MW-507BR
123.04

8th Street

Legend

- Monitoring Well - Bedrock and Transition Zone
- 124.23 Groundwater Elevation (Feet MSL)
- Flow Line Used for Groundwater Gradient Estimation
- ISCO (In-Situ Chemical Oxidation) Area
- ISS (In-Situ Solidification) Area
- Parcels

Notes:

MW-306TZ, MW-309TZ and MW-310TZ are in Depth Discrete Sampling Port (DDSP) wells.

MSL - Mean Sea Level

0 225 450 Feet

Atlanta Gas Light Company
Former Manufactured Gas Plant
23rd Semiannual Corrective Action Effectiveness Report - January 2018 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

3-Point Gradient Estimation for the Bedrock and Transition Wells - January 22, 2018

Prepared by/Date: RD - 5/23/2018	Figure: C-4
Checked by/Date: JMQ - 5/23/2018	
Project Number: 6122150235	

wood.

Document Path: G:\AGL_Augusta\mxds\Augusta_23rd_Semi_Annual_CAER_Report\Three_Point_Gradient_BR_and_TZ.mxd

APPENDIX D

ANALYTICAL DATA VALIDATION CHECKLIST

January 2018 Data Evaluation Narrative
Project: Atlanta Gas Light
Amec Foster Wheeler Project Number: 6122150235.03.**
Site: Augusta, GA
Matrix: Groundwater

AES SDG No: 1801K21

Introduction

A data quality evaluation (DQE) was performed on the data reported for the groundwater sampling event conducted at the Atlanta Gas Light (AGL) facility located in Augusta, Georgia in January 2018. The following sections provide summary discussions of the required data qualifications for the analytical methods for samples collected. A Level II DQE validation was performed on the samples analyzed by the fixed-based laboratory within these sample delivery groups (SDGs). A Level II DQE consists of review of the following criteria: sample integrity, holding times, reporting limits, method blanks, laboratory control samples (LCSs), surrogate recoveries (where applicable), matrix spikes/matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs), laboratory and field duplicate RPDs, and trip, field, and/or equipment blanks. Data were reviewed using precision and accuracy control limits presented in the laboratory's QAPP. Additionally, the data summary tables generated from the electronic data deliverable (EDD) were compared to the laboratory hardcopy data report to verify that the EDD and data report match.

DQE data qualifications were applied, if necessary, in accordance with procedures in USEPA guidelines (USEPA, 2008/2011), the method, and professional judgment using the following qualifiers:

J = The reported concentration is considered an estimated value.

Deliverables

The data package as submitted to Amec Foster Wheeler Environment and Infrastructure, Inc. (Amec Foster Wheeler, formerly AMEC) are complete for USEPA Methods SW8260B, SW8270D-SIM, SW6020B, SW7470A, and SW9014.

Sample Integrity

Samples within this SDG were submitted to Analytical Environmental Services (AES) in Atlanta, Georgia for select volatile organic compounds (VOCs) by USEPA Method 8260B, polynuclear aromatic hydrocarbons (PAHs) by USEPA Method 8270D - selective ion monitoring (SIM), metals [antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), cadmium (Cd), chromium (Cr), copper (Cu), lead (Pb), nickel (Ni), selenium (Se), thallium (Tl) vanadium (V), and zinc (Zn)] by USEPA Method SW6020B, mercury by USEPA Method 7470A, and cyanide by USEPA Method 9014.

Based on the information provided on the Chain-of-Custody (COC) forms, the field samples arrived at the laboratory intact and within the temperature range. Completed COC documents are included in the data package.

Sample Identification

This SDG contains the following water and QC samples:

Sample ID	Sample Date	DQE Level	Sample ID	Sample Date	DQE Level
MW-306SAP-0118	01/23/18	II	MW-12-0118	01/23/18	II
MW-306D-0118	01/23/18	II	DUP-01-0118	01/23/18	II
MW-306TZ-0118	01/23/18	II	MW-505D-0118	01/23/18	II
MW-306BR-0118	01/23/18	II	MW-304-0118	01/23/18	II
DUP-02-0118	01/23/18	II	MW-602-0118	01/23/18	II
MW-05-0118	01/23/18	II	MW-303-0118	01/23/18	II
MW-207-0118	01/23/18	II	MW-309BR-0118	01/23/18	II
MW-508BR-0118	01/23/18	II	TB-01-0118	01/23/18	II

These samples were collected on January 23, 2018, and sample TB-01-0118 is a trip blank. Sample DUP-01-0118 is a field duplicate of MW-12-0118, and sample DUP-02-0118 is a field duplicate of MW-306BR-0118.

VOCs (SW8260B)

The samples in this SDG including the trip blank were submitted to AES for VOC analysis by Method 8260B. The Level II components were within laboratory QC.

PAHs (SW8270-SIM)

The samples in this SDG were submitted to AES for PAH analysis by Method 8270D-SIM. The Level II components were within laboratory QC limits with the exception of surrogate recoveries and field duplicate precision.

Surrogate Recoveries

The recovery of method specified surrogate 4-terphenyl-d_{14} was above the upper QC limit for samples MW-306TZ-0118 and MW-12-0118, and only positive results require qualification.

Action: The fluorene, phenathrene, anthracene, fluoranthene and pyrene results for sample MW-306TZ-0118 and the acenaphthylene, anthracene, fluoranthene, pyrene, and benz(a)anthracene results for sample MW-12-0118 were qualified as estimated and flagged "J".

Field Duplicate Precision

Two field duplicate pairs were submitted with this SDG, and the RPD was outside of QC limits for acenaphthylene in sample/duplicate pair MW-12-0118 / DUP-01-0118.

Action: The acenaphthylene results for samples MW-12-0118 and DUP-01-0118 were qualified as estimated and flagged "J".

Metals (SW6020B)

The samples in this SDG were submitted to AES for metals analysis (Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl, V, and Zn) by Method SW6020B. The Level II components were within laboratory QC limits.

Mercury (SW7470A)

The samples in this SDG were submitted to AES for mercury analysis by Method SW7470A. The Level II components were within laboratory QC limits.

Cyanide (SW9014)

The samples in this SDG were submitted to AES for cyanide analysis by Method SW9014. The Level II components were within laboratory QC limits.

Overall Site Evaluation and Professional Judgment Flagging Changes

The chemical data included in this SDG was validated in general accordance with the guidelines contained in the project work plan and no DQE flags were modified based on professional judgment.

References

USEPA, 2008/2011. Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services. Prepared by the Region 4, United States Environmental Protection Agency, Science and Ecosystem Support Division, August 2008 (organic), September 2011 (inorganic).

Prepared by/Date: MBB 02/20/18
Checked By/Date: DWK 02/20/18

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: AGL Augusta
Project No: 6122150235.03.****
Method: VOCs by SW8260B
Laboratory and Lot: AES SDG: 1801K21
Reviewer/Date: M. Bowen 02/16/18 **Senior Reviewer/Date:** D. Knaub 02/20/18

YES	NO	NA	COMMENTS

Groundwater samples analyzed for select VOCs include: MW-306SAP-0118, MW-306D-0118, MW-306TZ-0118, MW-306BR-0118, DUP-02-0118, MW-05-0118, MW-207-0118, MW-508BR-0118, MW-12-0118, DUP-01-0118, MW-505D-0118, MW-304-0118, MW-602-0118, MW-303-0118, MW-309BR-0118, TB-01-0118

X **Case Narrative and COC Completeness Review**
Cooler temps: 0.4, 0.8, 1.2, 0.9 °C

X **Holding times met**
Collected: 01/23/18
Anal: 01/30/18, 01/31/18

X **QC Blanks Review**
MB-255023 = ND
TB-01-0118= ND

X **Laboratory Control Sample (LCS) recovery within limits**
LCS- 255025 – All % Rec OK

X **Surrogate recovery within limits**
All OK

X **Lab Duplicate - Field Duplicate precision goals met (30%).**

	DUP-01-0118	MW-12-0118	RPD
Benzene	11000	11000	0.0
Ethylbenzene	2400	2400	0.0
Toluene	940	920	2.15
Xylenes, total	1800	1700	5.17

DUP-02-0118 = MW-306BR-0118 ***Both ND - OK***

X **Matrix Spike recoveries and RPDs within limits (if applicable)**
p. 53-54 MW-12-0118 - All % Recoveries and RPDs within limits

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**

LEVEL II DATA QUALITY VALIDATION RECORD

Project: AGL Augusta
Project No: 6122150235.03.****
Method: PAHs by SW8270D-SIM
Laboratory and Lot: AES SDG: 1801K21
Reviewer/Date: M. Bowen 02/20/18 **Senior Reviewer/Date:** D. Knaub 02/20/18

YES	NO	NA	COMMENTS

Groundwater samples analyzed for PAHs include: MW-306SAP-0118, MW-306D-0118, MW-306TZ-0118, MW-306BR-0118, DUP-02-0118, MW-05-0118, MW-207-0118, MW-508BR-0118, MW-12-0118, DUP-01-0118, MW-505D-0118, MW-304-0118, MW-602-0118, MW-303-0118, and MW-309BR-0118

X **Case Narrative and COC Completeness Review**
Cooler temp: 0.4, 0.8, 1.2, 0.9 °C

X **Holding times met**
Collected: 01/23/18
Anal: 01/29/18, 01/31/18

X **QC Blanks Review**
MB-254837= ND

X **Laboratory Control Sample (LCS) recovery within limits**
LCS-254837- All % Rec OK

X **Surrogate recovery within limits**
MW-306TZ-01118
4-terphenyl-d14 = **130**% ***Assoc. results flagged "J"***
MW-12-01118
4-terphenyl-d14 = **168**% ***Assoc. results flagged "J"***

X **Lab Duplicate - Field Duplicate precision goals met (30%).**

	MW-12-0118	DUP-01-01	RPD
acenaphthene	100	120	18.18
acenaphthylene	3.3	5.2	**44.71****
anthracene	2.1	2.3	9.10
benzo(a)anthracene	0.053	ND	NC
fluoranthene	0.29	0.29	0.00
fluorene	21	23	9.10
naphthalene	5500	6500	16.67
phenanthrene	13	14	7.41
pyrene	0.33	0.36	8.70

****Flag associated results "J"***

Field Duplicate Precision (cont.)

	DUP-02-0118	= MW-306BR-0118	RPD
acenaphthene	14	16	13.33
anthracene	0.25	0.26	3.92
fluorene	2.3	2.5	8.33
naphthalene	330	360	8.70
phenanthrene	1.2	1.3	8.00
pyrene	0.11	0.12	8.70

X **Matrix Spike recoveries and RPDs within limits (if applicable)**
p. 46-47 Not a project sample from this SDG - OK

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**

LEVEL II DATA QUALITY VALIDATION RECORD

Project: AGL Augusta
Project No: 6122150235.03.****
Method: Metals by SW6020B
Laboratory and Lot: AES SDG: 1801K21
Reviewer/Date: M. Bowen 02/20/18 **Senior Reviewer/Date:** D. Knaub 02/20/18_

YES	NO	NA	COMMENTS

Groundwater samples analyzed for Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl, V, and Zn include: MW-306SAP-0118, MW-306D-0118, MW-306TZ-0118, MW-306BR-0118, DUP-02-0118, MW-05-0118, MW-207-0118, MW-508BR-0118, MW-12-0118, DUP-01-0118, MW-505D-0118, MW-304-0118, MW-602-0118, MW-303-0118, and MW-309BR-0118

X **Case Narrative and COC Completeness Review**
Cooler temp: 0.4, 0.8, 1.2, 0.9 °C

X **Holding times met**
Collected: 01/23/18
Analyzed: 02/01/18

X **QC Blanks Review**
MB-254864 = ND

X **Laboratory Control Sample (LCS) recovery within limits**
LCS-254864 – All % Rec OK

X **Lab Duplicate - Field Duplicate precision goals met (20%)**.

	DUP-01-0118	= MW-12-0118	RPD
Ba	0.16	0.165	3.08
	DUP-02-0118	= MW-306BR-0118	RPD
Ba	0.451	0.453	0.44

X **Matrix Spike recoveries and RPDs within limits (if applicable)**
p. 49-50 MW-306SAP-0118– All %Rec and RPDs OK

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**

LEVEL II DATA QUALITY VALIDATION RECORD

Project: AGL Augusta
Project No: 6122150235.03.****
Method: Mercury by SW7470A
Laboratory and Lot: AES SDG: 1801K21
Reviewer/Date: M. Bowen 02/20/18 **Senior Reviewer/Date:** D. Knaub 02/20/18_

YES	NO	NA	COMMENTS

Groundwater samples analyzed for mercury include: MW-306SAP-0118, MW-306D-0118, MW-306TZ-0118, MW-306BR-0118, DUP-02-0118, MW-05-0118, MW-207-0118, MW-508BR-0118, MW-12-0118, DUP-01-0118, MW-505D-0118, MW-304-0118, MW-602-0118, MW-303-0118, and MW-309BR-0118

X			**Case Narrative and COC Completeness Review** Cooler temp: 0.4, 0.8, 1.2, 0.9 °C
X			**Holding times met** Collected: 01/23/18 Anal: 01/30/18
X			**QC Blanks Review** MB-254952 = ND
X			**Laboratory Control Sample (LCS) recovery within limits** LCS-254952 – All % Rec OK
X			**Lab Duplicate - Field Duplicate precision goals met (20%).** DUP-01-0118 = MW-12-0118 Both samples ND – OK DUP-02-0118 = MW-306BR-0118 Both samples ND – OK
X			**Matrix Spike recoveries and RPDs within limits (if applicable)** p. 51 MW-306SAP-0118 – All %Rec and RPDs OK
X			**EDD Data Verification vs. Hardcopy (10% samples for each SDG)**

LEVEL II DATA QUALITY VALIDATION RECORD

Project: AGL Augusta
Project No: 6122150235.03.****
Method: Cyanide by SW9014
Laboratory and Lot: AES SDG: 1801K21
Reviewer/Date: M. Bowen 02/20/18 **Senior Reviewer/Date:** D. Knaub 02/20/18

YES	NO	NA	COMMENTS

Groundwater samples analyzed for cyanide include: MW-306SAP-0118, MW-306D-0118, MW-306TZ-0118, MW-306BR-0118, DUP-02-0118, MW-05-0118, MW-207-0118, MW-508BR-0118, MW-12-0118, DUP-01-0118, MW-505D-0118, MW-304-0118, MW-602-0118, MW-303-0118, and MW-309BR-0118

X			**Case Narrative and COC Completeness Review** Cooler temp: 0.4, 0.8, 1.2, 0.9 °C
X			**Holding times met** Collected: 01/23/18 Anal: 01/31/18
X			**QC Blanks Review** MB-255015 = ND
X			**Laboratory Control Sample (LCS) recovery within limits** LCS-255015 – All % Rec OK
X			**Lab Duplicate - Field Duplicate precision goals met (20%).** DUP-01-0118 = MW-12-0118 All ND – OK DUP-02-0118 = MW-306BR-0118 All ND – OK
	X		**Matrix Spike recoveries and RPDs within limits (if applicable)** p. 52 Not a project sample from this SDG – OK
X			**EDD Data Verification vs. Hardcopy (10% samples for each SDG)**

January 2018 Data Evaluation Narrative
Project: Atlanta Gas Light
Amec Foster Wheeler Project Number: 6122150235.03.**
Site: Augusta, GA
Matrix: Groundwater

AES SDG No: 1801K95

Introduction

A data quality evaluation (DQE) was performed on the data reported for the groundwater sampling event conducted at the Atlanta Gas Light (AGL) facility located in Augusta, Georgia in January 2018. The following sections provide summary discussions of the required data qualifications for the analytical methods for samples collected. A Level II DQE validation was performed on the samples analyzed by the fixed-based laboratory within these sample delivery groups (SDGs). A Level II DQE consists of review of the following criteria: sample integrity, holding times, reporting limits, method blanks, laboratory control samples (LCSs), surrogate recoveries (where applicable), matrix spikes/matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs), laboratory and field duplicate RPDs, and trip, field, and/or equipment blanks. Data were reviewed using precision and accuracy control limits presented in the laboratory's QAPP. Additionally, the data summary tables generated from the electronic data deliverable (EDD) were compared to the laboratory hardcopy data report to verify that the EDD and data report match.

DQE data qualifications were applied, if necessary, in accordance with procedures in USEPA guidelines (USEPA, 2008/2011), the method, and professional judgment using the following qualifiers:

J = The reported concentration is considered an estimated value.

Deliverables

The data package as submitted to Amec Foster Wheeler Environment and Infrastructure, Inc. (Amec Foster Wheeler, formerly AMEC) are complete for USEPA Methods SW8260B, SW8270D-SIM, SW6020B, SW7470A, and SW9014.

Sample Integrity

Samples within this SDG were submitted to Analytical Environmental Services (AES) in Atlanta, Georgia for select volatile organic compounds (VOCs) by USEPA Method 8260B, polynuclear aromatic hydrocarbons (PAHs) by USEPA Method 8270D - selective ion monitoring (SIM), metals [antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), cadmium (Cd), chromium (Cr), copper (Cu), lead (Pb), nickel (Ni), selenium (Se), thallium (Tl) vanadium (V), and zinc (Zn)] by USEPA Method SW6020B, mercury by USEPA Method 7470A, and cyanide by USEPA Method 9014.

Based on the information provided on the Chain-of-Custody (COC) forms, the field samples arrived at the laboratory intact and within the temperature range. Completed COC documents are included in the data package.

Sample Identification

This SDG contains the following water and QC samples:

Sample ID	Sample Date	DQE Level	Sample ID	Sample Date	DQE Level
TB-02-0118	01/24/18	II	MW-315-0118	01/24/18	II
MW-310SAP-0118	01/24/18	II	MW-318-0118	01/24/18	II
MW-310BR-0118	01/24/18	II	MW-311-0118	01/24/18	II
MW-402S-0118	01/24/18	II	MW-206-0118	01/24/18	II
MW-402D-0118	01/24/18	II	MW-22-0118	01/24/18	II
MW-513BR-0118	01/24/18	II	MW-214-0118	01/24/18	II
MW-513BR-0118 MS/MSD	01/24/18	II			

These samples were collected on January 24, 2018. Sample TB-02-0118 is a trip blank, and sample MW-513BR-0118 was submitted for MS/MSD analysis.

VOCs (SW8260B)

The samples in this SDG including the trip blank were submitted to AES for VOC analysis by Method 8260B. The Level II components were within laboratory QC limits.

PAHs (SW8270-SIM)

The samples in this SDG were submitted to AES for PAH analysis by Method 8270D-SIM. The Level II components were within laboratory QC limits with the exception of surrogate recoveries.

Surrogate Recoveries

The recovery of method specified surrogate 4-terphenyl-d_{14} was above the upper QC limit for samples MW-310SAP-0118, MW-310BR-0118, MW-402S-0118, and MW-402D-0118, and only positive results require qualification.

Action: No qualification was necessary because the associated sample results were non-detect.

Metals (SW6020B)

The samples in this SDG were submitted to AES for metals analysis (Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl, V, and Zn) by Method SW6020B. The Level II components were within laboratory QC limits with the exception of MS/MSD recoveries.

Matrix Spike/Duplicate

MS/MSD analyses were performed on sample MW-513BR-0118, and the MSD percent recovery was outside of QC limits for barium.

Action: No qualification was necessary because the MS recovery and RPD were within QC limits.

Mercury (SW7470A)

The samples in this SDG were submitted to AES for mercury analysis by Method SW7470A. The Level II components were within laboratory QC limits.

Cyanide (SW9014)

The samples in this SDG were submitted to AES for cyanide analysis by Method SW9014. The Level II components were within laboratory QC limits.

Overall Site Evaluation and Professional Judgment Flagging Changes

The chemical data included in this SDG was validated in general accordance with the guidelines contained in the project work plan and no DQE flags were modified based on professional judgment.

References

USEPA, 2008/2011. Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services. Prepared by the Region 4, United States Environmental Protection Agency, Science and Ecosystem Support Division, August 2008 (organic), September 2011 (inorganic).

Prepared by/Date: JPM 02/20/18
Checked By/Date: DWK 02/20/18

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: AGL Augusta
Project No: 6122150235.03.****
Method: VOCs by SW8260B
Laboratory and Lot: AES SDG: 1801K95
Reviewer/Date: J. McIntyre 02/19/18 **Senior Reviewer/Date:** D. Knaub 02/20/18

YES	NO	NA	COMMENTS

Groundwater samples analyzed for select VOCs include: TB-02-0118, MW-310SAP-0118, MW-310BR-0118, MW-402S-0118, MW-402D-0118, MW-513BR-0118, MW-315-0118, MW-318-0118, MW-311-0118, MW-206-0118, MW-22-0118, and MW-214-0118

X **Case Narrative and COC Completeness Review**
Cooler temp: 1.1, 1.5, 0.9, and 1.2 °C

X **Holding times met**
Collected: 01/24/18
Anal: 01/29/18 - 01/30/18

X **QC Blanks Review**
MB-254970 = ND
TB-02-0118 = ND

X **Laboratory Control Sample (LCS) recovery within limits**
LCS-254970 – All % Rec OK

X **Surrogate Recovery within limits**
All OK

X **Lab Duplicate - Field Duplicate precision goals met (30%).**
No field or lab duplicates in this SDG.

X **Matrix Spike recoveries and RPDs within limits (if applicable)**
p. 44-45 MW-513BR-0118 All % Rec. and RPDs OK

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**

LEVEL II DATA QUALITY VALIDATION RECORD

Project: AGL Augusta
Project No: 6122150235.03.****
Method: PAHs by SW8270D-SIM
Laboratory and Lot: AES SDG: 1801K95
Reviewer/Date: J. McIntyre 02/20/18 **Senior Reviewer/Date:** D. Knaub 02/20/18

YES	NO	NA	COMMENTS

Groundwater samples analyzed for PAHs include: MW-310SAP-0118, MW-310BR-0118, MW-402S-0118, MW-402D-0118, MW-513BR-0118, MW-315-0118, MW-318-0118, MW-311-0118, MW-206-0118, MW-22-0118, and MW-214-0118

X **Case Narrative and COC Completeness Review**
Cooler temp: 1.1, 1.5, 0.9, and 1.2 °C

X **Holding times met**
Collected: 01/24/18
Anal: 01/29/18, 01/30/18

X **QC Blanks Review**
MB-254837= ND
MB-254887= ND
MB-254954= ND

X **Laboratory Control Sample (LCS) recovery within limits**
LCS-254837- All % Rec OK
LCS-254887- All % Rec OK
LCS-254954- All % Rec OK

X **Surrogate Recovery within limits**
Recovery of 4-terphenyl-d14 out in samples:
MW-310SAP-0118 = 159% MW-310BR-0118 = 134%
MW-402S-0118 = 148% MW-402D-0118 = 141%
Assoc. positive results flagged "J" *No flags were applied, assoc. results ND*

X **Lab Duplicate - Field Duplicate precision goals met (30%).**
No field dups or lab dups in this SDG

X **Matrix Spike recoveries and RPDs within limits (if applicable)**
p. 33-34 MW-513BR-0118 – All %Rec and RPDs OK
p. 39-40 Not a project sample from this SDG - OK
p. 42-43 MW-214-0118 – All %Rec and RPDs OK

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**

LEVEL II DATA QUALITY VALIDATION RECORD

Project: AGL Augusta
Project No: 6122150235.03.****
Method: Metals by SW6020B
Laboratory and Lot: AES SDG: 1801K95
Reviewer/Date: J.McIntyre 02/20/18 **Senior Reviewer/Date:** D. Knaub 02/20/18

YES	NO	NA	COMMENTS

Groundwater samples analyzed for Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl, V, and Zn include: MW-310SAP-0118, MW-310BR-0118, MW-402S-0118, MW-402D-0118, MW-513BR-0118, MW-315-0118, MW-318-0118, MW-311-0118, MW-206-0118, MW-22-0118, and MW-214-0118

X **Case Narrative and COC Completeness Review**
Cooler temp: 1.1, 1.5, 0.9, and 1.2 °C

X **Holding times met**
Collected: 01/24/18
Analyzed: 02/06/18

X **QC Blanks Review**
MB-254865 = ND

X **Laboratory Control Sample (LCS) recovery within limits**
LCS-254865 – All % Rec OK

X **Lab Duplicate - Field Duplicate precision goals met (20%)**.
No field or lab dups in this SDG

X **Matrix Spike recoveries and RPDs within limits (if applicable)**
p. 47-48 MW-513BR-0118 Ba = 105, 64.9% RPD = 5.08
No flag necessary, MS and RPD within QC limits

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**

LEVEL II DATA QUALITY VALIDATION RECORD

Project: AGL Augusta
Project No: 6122150235.03.****
Method: Mercury by SW7470A
Laboratory and Lot: AES SDG: 1801K95
Reviewer/Date: J. McIntyre 02/20/18 **Senior Reviewer/Date:** D. Knaub 02/20/18

YES	NO	NA		COMMENTS
			Groundwater samples analyzed for mercury include: MW-310SAP-0118, MW-310BR-0118, MW-402S-0118, MW-402D-0118, MW-513BR-0118, MW-315-0118, MW-318-0118, MW-311-0118, MW-206-0118, MW-22-0118, and MW-214-0118	
X			**Case Narrative and COC Completeness Review** Cooler temp: 1.1, 1.5, 0.9, and 1.2 °C	
X			**Holding times met** Collected: 01/24/18 Analyzed: 01/31/18	
X			**QC Blanks Review** MB-255002 = ND	
X			**Laboratory Control Sample (LCS) recovery within limits** LCS-255002 – All % Rec OK	
		X	**Lab Duplicate - Field Duplicate precision goals met (20%).** No field or lab duplicates in this SDG	
X			**Matrix Spike recoveries and RPDs within limits (if applicable)** p. 46 MW-513BR-0118– All %Rec and RPDs OK	
X			**EDD Data Verification vs. Hardcopy (10% samples for each SDG)**	

LEVEL II DATA QUALITY VALIDATION RECORD

Project: AGL Augusta
Project No: 6122150235.03.****
Method: Cyanide by SW9014
Laboratory and Lot: AES SDG: 1801K95
Reviewer/Date: J. McIntyre 02/20/18 **Senior Reviewer/Date:** D. Knaub 02/20/18

YES	NO	NA	COMMENTS

Groundwater samples were analyzed for cyanide and include: MW-310SAP-0118, MW-310BR-0118, MW-402S-0118, MW-402D-0118, MW-513BR-0118, MW-315-0118, MW-318-0118, MW-311-0118, MW-206-0118, MW-22-0118, and MW-214-0118

X			**Case Narrative and COC Completeness Review** Cooler temp: 1.6, 2.1, 1.8, 0.9, and 2.0°C
X			**Holding times met** Collected: 01/24/18 Analyzed: 01/31/18
X			**QC Blanks Review** MB-255015 = ND
X			**Laboratory Control Sample (LCS) recovery within limits** LCS-255015– All % Rec OK
		X	**Lab Duplicate - Field Duplicate precision goals met (20%).** No field or lab duplicates in this SDG
		X	**Matrix Spike recoveries and RPDs within limits (if applicable)** p. 47 not a project sample from this SDG - OK
X			**EDD Data Verification vs. Hardcopy (10% samples for each SDG)**

January 2018 Data Evaluation Narrative
Project: Atlanta Gas Light
Amec Foster Wheeler Project Number: 6122150235.03.**
Site: Augusta, GA
Matrix: Groundwater

AES SDG No: 1801L87

Introduction

A data quality evaluation (DQE) was performed on the data reported for the groundwater sampling event conducted at the Atlanta Gas Light (AGL) facility located in Augusta, Georgia in January 2018. The following sections provide summary discussions of the required data qualifications for the analytical methods for samples collected. A Level II DQE validation was performed on the samples analyzed by the fixed-based laboratory within these sample delivery groups (SDGs). A Level II DQE consists of review of the following criteria: sample integrity, holding times, reporting limits, method blanks, laboratory control samples (LCSs), surrogate recoveries (where applicable), matrix spikes/matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs), laboratory and field duplicate RPDs, and trip, field, and/or equipment blanks. Data were reviewed using precision and accuracy control limits presented in the laboratory's quality assurance project plan (QAPP). Additionally, the data summary tables generated from the electronic data deliverable (EDD) were compared to the laboratory hardcopy data report to verify that the EDD and data report match.

DQE data qualifications were applied, if necessary, in accordance with procedures in United States Environmental Protection Agency (USEPA) guidelines (USEPA, 2008/2011), the method, and professional judgment using the following qualifiers:

J = The reported concentration is considered an estimated value.

Deliverables

The data package as submitted to Amec Foster Wheeler Environment and Infrastructure, Inc. (Amec Foster Wheeler, formerly AMEC) are complete for USEPA Methods SW8260B, SW8270D-SIM, SW6020B, SW7470A, and SW9014.

Sample Integrity

Samples within this SDG were submitted to Analytical Environmental Services (AES) in Atlanta, Georgia for select volatile organic compounds (VOCs) by USEPA Method SW8260B, polynuclear aromatic hydrocarbons (PAHs) by USEPA Method SW8270D - selective ion monitoring (SIM), metals [antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), cadmium (Cd), chromium (Cr), copper (Cu), lead (Pb), nickel (Ni), selenium (Se), thallium (Tl) vanadium (V), and zinc (Zn)] by

USEPA Method SW6020B, mercury by USEPA Method SW7470A, and cyanide by USEPA Method SW9014.

Based on the information provided on the Chain-of-Custody (COC) forms, the field samples arrived at the laboratory intact and within the temperature range. Completed COC documents are included in the data package.

Sample Identification

This SDG contains the following water and QC samples:

Sample ID	Sample Date	DQE Level	Sample ID	Sample Date	DQE Level
IDW-0118	01/26/18	II	MW-319-0118	01/25/18	II
DUP-04-0118	01/25/18	II	MW-404DR-0118	01/25/18	II
MW-19-0118	01/25/18	II	MW-408DR-0118	01/25/18	II
DUP-03-0118	01/25/18	II	MW-402S-0717	01/25/18	II
MW-203-0118	01/25/18	II	MW-408S-0118	01/25/18	II
MW-21-0118	01/25/18	II	MW-500BR-0118	01/25/18	II
MW-313-0118	01/25/18	II	MW-501S-0118	01/25/18	II
MW-320-0118	01/25/18	II	MW-507BR-0118	01/25/18	II
MW-325-0118	01/25/18	II	TB-03-0118	01/25/18	II

These samples were collected on January 25 and 26, 2018. Sample DUP-3-0118 is a field duplicate of MW-19-0118, and sample DUP-04-0118 is a field duplicate of MW-501S-0118. Sample TB-03-0118 is a trip blank.

VOCs (SW8260B)

The samples in this SDG including the trip blank were submitted to AES for VOC analysis by Method SW8260B. The Level II components were within laboratory QC limits.

PAHs (SW8270D-SIM)

The samples in this SDG were submitted to AES for PAH analysis by Method SW8270D-SIM. The Level II components were within laboratory QC limits.

Metals (SW6020B)

The samples in this SDG were submitted to AES for metals analysis (Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl, V, and Zn) by Method SW6020B. The Level II components were within laboratory QC limits.

Mercury (SW7470A)

The samples in this SDG were submitted to AES for mercury analysis by Method SW7470A. The Level II components were within laboratory QC limits.

Cyanide (SW9014)

The samples in this SDG were submitted to AES for cyanide analysis by Method SW9014. The Level II components were within laboratory QC limits.

Overall Site Evaluation and Professional Judgment Flagging Changes

The chemical data included in this SDG was validated in general accordance with the guidelines contained in the project work plan and no DQE flags were modified based on professional judgment.

References

USEPA, 2008/2011. Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services. Prepared by the Region 4, United States Environmental Protection Agency, Science and Ecosystem Support Division, August 2008 (organic), September 2011 (inorganic).

Prepared by/Date: MBB 02/16/18
Checked By/Date: DWK 02/16/18

DQE CHECKLISTS

LEVEL II DATA QUALITY VALIDATION RECORD

Project: AGL Augusta
Project No: 6122150235.03.****
Method: VOCs by SW8260B
Laboratory and Lot: AES SDG: 1801L87
Reviewer/Date: M. Bowen 02/15/18 **Senior Reviewer/Date:** D. Knaub 02/16/18

YES	NO	NA	COMMENTS

Samples were analyzed for select VOCs and include: IDW-0118, DUP-04-0118, MW-19-0118, DUP-03-0118, MW-203-0118, MW-21-0118, MW-313-0118, MW-319-0118, MW-320-0118, MW-325-0118, MW-404DR-0118, MW-408DR-0118, MW-408S-0118, MW-500BR-0118, MW-501S-0118, MW-507BR-0118, TB-03-0118

X **Case Narrative and COC Completeness Review**
Cooler temps: 1.6, 2.1, 1.8, 0.9, and 2.0ºC

X **Holding times met**
Collected: 01/25/18, 01/26/18
Anal: 01/30/18, 01/31/18

X **QC Blanks Review**
p. 52 MB- 255025 = ND
TB-03-0118= ND

X **Laboratory Control Sample (LCS) recovery within limits**
p. 52 LCS- 255025 – All % Rec OK

X **Surrogate recovery within limits**
All OK

X **Lab Duplicate - Field Duplicate precision goals met (30%).**
DUP-03-0118 = MW-19-0118
Both ND – OK
DUP-04-0118 = MW-501S-0118
Both ND – OK

X **Matrix Spike recoveries and RPDs within limits (if applicable)**
p. 52-53 MW-320-0118
All % Recoveries and RPDs within limits.

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**

Dilutions: IDW-0118, MW-500BR-0118

LEVEL II DATA QUALITY VALIDATION RECORD

Project: AGL Augusta
Project No: 6122150235.03.****
Method: PAHs by SW8270D-SIM
Laboratory and Lot: AES SDG: 1801L87
Reviewer/Date: M. Bowen 02/15/17 **Senior Reviewer/Date:** D. Knaub 02/16/18

YES	NO	NA	COMMENTS

Samples were analyzed for PAHs and include: IDW-0118, DUP-04-0118, MW-19-0118, DUP-03-0118, MW-203-0118, MW-21-0118, MW-313-0118, MW-319-0118, MW-320-0118, MW-325-0118, MW-404DR-0118, MW-408DR-0118, MW-408S-0118, MW-500BR-0118, MW-501S-0118, MW-507BR-0118

X **Case Narrative and COC Completeness Review**
Cooler temp: 1.6, 2.1, 1.8, 0.9, and 2.0°C

X **Holding times met**
Collected: 01/25/18, 01/26/18
Anal: 01/30/18, 01/31/18

X **QC Blanks Review**
p. 49 MB-254887= ND

X **Laboratory Control Sample (LCS) recovery within limits**
p. 49 -50 LCS-254887- All % Rec OK

X **Surrogate recovery within limits**
All OK

X **Lab Duplicate - Field Duplicate precision goals met (30%).**
DUP-03-0118 = MW-19-0118

Anthracene	0.099	0.098	RPD = 1.02

DUP-04-0118 = MW-501S-0118
Both ND - OK

X **Matrix Spike recoveries and RPDs within limits (if applicable)**
p. 50-51 MW-320-0118
All %Rec and RPD within QC limits

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**

Dilutions: MW-408-DR-0118, MW-500BR-0118

LEVEL II DATA QUALITY VALIDATION RECORD

Project: AGL Augusta
Project No: 6122150235.03.****
Method: Metals by SW6020B
Laboratory and Lot: AES SDG: 1801L87
Reviewer/Date: M. Bowen 02/16/18 **Senior Reviewer/Date:** D. Knaub 02/16/18_

YES	NO	NA	COMMENTS

Samples were analyzed for Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Tl, V, and Zn and include: IDW-0118, DUP-04-0118, MW-19-0118, DUP-03-0118, MW-203-0118, MW-21-0118, MW-313-0118, MW-319-0118, MW-320-0118, MW-325-0118, MW-404DR-0118, MW-408DR-0118, MW-408S-0118, MW-500BR-0118, MW-501S-0118, MW-507BR-0118

X **Case Narrative and COC Completeness Review**
Cooler temps: 1.6, 2.1, 1.8, 0.9, and 2.0°C

X **Holding times met**
Collected: 01/25/18, 01/26/18
Analyzed: 02/06/18, 02/07/18

X **QC Blanks Review**
p. 46 MB-254868 = ND

X **Laboratory Control Sample (LCS) recovery within limits**
p. 46-47 LCS-254868 – All % Rec OK

X **Lab Duplicate - Field Duplicate precision goals met (20%)**.

	DUP-03-0118	= MW-19-0118	RPD
Ba	0.0851	0.0856	0.59
Ni	0.0322	0.0312	3.15
Zn	0.063	0.0653	6.13

	DUP-04-0118	= MW-501S-0118	
Ba	0.0813	0.093	RPD = 13.4 OK

X **Matrix Spike recoveries and RPDs within limits (if applicable)**
p. 47-48 MW-320-0118– all OK

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**

LEVEL II DATA QUALITY VALIDATION RECORD

Project: AGL Augusta
Project No: 6122150235.03.****
Method: Mercury by SW7470A
Laboratory and Lot: AES SDG: 1801L87
Reviewer/Date: M. Bowen 02/16/18 **Senior Reviewer/Date:** D. Knaub 02/16/18

YES	NO	NA	COMMENTS

Samples were analyzed for mercury and include: IDW-0118, DUP-04-0118, MW-19-0118, DUP-03-0118, MW-203-0118, MW-21-0118, MW-313-0118, MW-319-0118, MW-320-0118, MW-325-0118, MW-404DR-0118, MW-408DR-0118, MW-408S-0118, MW-500BR-0118, MW-501S-0118, MW-507BR-0118

X **Case Narrative and COC Completeness Review**
Cooler temp: 1.6, 2.1, 1.8, 0.9, and 2.0ºC

X **Holding times met**
Collected: 01/25/18, 01/26/18
Anal: 02/01/18, 02/02/18

X **QC Blanks Review**
p. 55 MB-255095 = ND

X **Laboratory Control Sample (LCS) recovery within limits**
p. 55 LCS-255095 – Hg = 85.7% OK

X **Lab Duplicate - Field Duplicate precision goals met (20%).**
DUP-03-0118 = MW-19-0118
Both ND – OK
DUP-04-0118 = MW-501S-0118
Both ND – OK

X **Matrix Spike recoveries and RPDs within limits (if applicable)**
p. 55 MW-320-0118 Hg = 93.7, 93.3% RPD = 0.495 OK

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**

LEVEL II DATA QUALITY VALIDATION RECORD

Project: AGL Augusta
Project No: 6122150235.03.****
Method: Cyanide by SW9014
Laboratory and Lot: AES SDG: 1801L87
Reviewer/Date: M. Bowen 02/16/18 **Senior Reviewer/Date:** D. Knaub 02/16/18

YES	NO	NA	COMMENTS

Samples were analyzed for cyanide and include: IDW-0118, DUP-04-0118, MW-19-0118, DUP-03-0118, MW-203-0118, MW-21-0118, MW-313-0118, MW-319-0118, MW-320-0118, MW-325-0118, MW-404DR-0118, MW-408DR-0118, MW-408S-0118, MW-500BR-0118, MW-501S-0118, MW-507BR-0118

X **Case Narrative and COC Completeness Review**
Cooler temp: 1.6, 2.1, 1.8, 0.9, and 2.0°C

X **Holding times met**
Collected: 01/25/18, 01/26/18
Anal: 02/01/18

X **QC Blanks Review**
p. 54 MB-255078 = ND

X **Laboratory Control Sample (LCS) recovery within limits**
p. 54 LCS-255078 – CN = 96.8% OK

X **Lab Duplicate - Field Duplicate precision goals met (20%).**
DUP-03-0118 = MW-19-0118

CN	0.016	0.016	RPD = 0

DUP-04-0118 = MW-501S-0118
Both ND - OK

X **Matrix Spike recoveries and RPDs within limits (if applicable)**
p. 54 not a project sample from this SDG – OK

X **EDD Data Verification vs. Hardcopy (10% samples for each SDG)**

APPENDIX E-1

SUMMARY OF HISTORICAL GROUNDWATER SAMPLING DATA – ALLUVIUM, GALLIARD, AND SAPROLITE MONITORING WELLS

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05	MW-05
		Sample Date	1/23/2018	7/14/2014	1/6/2014	7/8/2013	1/7/2013	7/23/2012	1/16/2012	7/5/2011	1/17/2011	7/13/2010	1/5/2010	1/5/2010 DUP	1/13/2009	7/15/2008	1/9/2008	7/10/2007	2/14/2007	7/11/2006	1/10/2006	7/21/2005	1/18/2005	7/16/2004	1/22/2004	7/19/2003	1/20/2003	7/9/2002	1/17/2002	7/11/2001	7/11/2001 DUP	1/18/2001
		Unit	Post-ISCO																			Pre-ISCO										
Field Parameters																																
Conductivity	*	mS/cm	0.712	0.742	0.646	0.695	0.742	0.048	0.660	0.750	0.370	0.674	0.653	0.653	1.230	0.792	0.816	0.631	0.893	0.830	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.22	0.69	2.04	0.08	0.16	0.18	3.14	2.06	5.5	0.31	0.13	0.13	5.82	0.21	0.36	0.22	0.71	0.17	--	--	--	--	--	--	--	--	--	--	--	--
77.0	*	mV	-91.1	-15.0	-67.0	-18.9	-58.0	-34.8	175.0	-55.7	65.0	-47.2	-36.8	-36.8	-35.8	-45.4	-51.9	-16.4	-67.5	-76.2	--	--	--	--	--	--	--	--	--	--	--	--
pH	*	SU	6.13	6.14	6.32	6.91	6.03	5.92	2.30	5.68	0.586	5.82	6.08	6.08	0.804	5.94	6.11	5.96	5.96	6.11	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	19.87	24.8	17.72	22.93	22.16	24.77	19.27	25.26	17.65	25.55	19.18	19.18	18.27	24.68	20.8	22.81	17.05	24.95	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	8.84	2.57	3.34	1.52	4.44	3.13	3.98	7.69	NA	3.09	3.94	3.94	2.4	3.12	1.09	3.88	1.03	3.41	--	--	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																																
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	30.8	31	32	38	33	29	33	33	33	37	36	36
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	1.95	2.0	2.2	2.2	2.0	2.1	2.2	2.3 N	2.2 N	2.2 N	2.1
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																																
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	< 100	< 50	< 50	< 50	< 50	**58**	< 25	< 25	< 25	< 25	< 25	< 25	< 25	**230**	**29**	**32**	< 25
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	< 0.25	< 0.25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.6	< 0.6	< 0.6	< 0.6	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.72 J**	< 1.0	< 1.0
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.12 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	**3.5 JB**	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	**0.60 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.24 J**	< 1.0	< 1.0
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.2	< 0.2	< 0.2	< 0.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Semivolatile Organic Compounds																																
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	--	--	--	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.21	< 0.097	< 0.11	< 0.12	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.20	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 0.21	< 0.097	< 0.11	< 0.12	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.20	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.21	< 0.097	< 0.11	< 0.12	< 0.10	<0.19	< 0.19	<0.19	**0.027 J**	**0.023 J**	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.21	< 0.097	< 0.11	< 0.12	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.20	<0.05	<0.05	< 0.05	< 0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.21	< 0.097	< 0.11	< 0.12	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.20	<0.05	**0.09**	< 0.05	< 0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.21	< 0.097	< 0.11	< 0.12	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.20	<0.1	<0.1	< 0.1	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.21	< 0.097	< 0.11	< 0.12	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.20	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.21	< 0.097	< 0.11	< 0.12	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.20	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.21	< 0.043	< 0.047	< 0.055	< 0.047	< 0.19	< 0.19	< 0.19	< 0.19	< 0.20	<0.05	<0.05	< 0.05	< 0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.21	< 0.097	< 0.11	< 0.12	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.20	**0.14**	**0.20**	< 0.1	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 1.0	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.21	< 0.097	< 0.11	< 0.12	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.2	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.21	< 0.097	< 0.11	< 0.12	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.2	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.21	< 0.097	< 0.11	< 0.12	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.2	**0.14**	**0.21**	< 0.05	< 0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.21	< 0.097	< 0.11	**0.22 J**	**0.13 J**	<0.19	<0.19	<0.19	**0.038 J**	**0.09 J**	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.21	< 0.097	< 0.11	< 0.12	< 0.10	<0.19	<0.19	<0.19	**0.048 J**	< 0.20	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.21	< 0.097	< 0.11	< 0.12	< 0.10	<0.19	<0.19	<0.19	**0.034 J**	**0.034 J**	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	**0.21**	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10
Inorganic Compounds																																
Aluminum (fume or dust)	*	mg/L	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.2	< 0.2	< 0.2	**3.3**	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	**0.072 B**
Antimony	0.01	mg/L	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0053	< 0.0053	**0.0071 J**	< 0.0053	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.01	< 0.006	< 0.02	**0.011**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0057 B**
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.0046	**0.0082 J**	**0.022**	< 0.0046	<0.02	<0.02	<0.02	**0.0069 J**	< 0.01	<0.05	<0.05	< 0.05	< 0.05	< 0.01	< 0.01	< 0.01	**0.017**	< 0.01	< 0.01	**0.0034 B**	< 0.01	**0.0048 B**	< 0.01	**0.0051 B**	< 0.01
Barium	2	mg/L	**0.337**	**0.349**	**0.366**	**0.368**	**0.33**	**0.39**	**0.36**	**0.38**	**0.36**	**0.34**	**0.36**	**0.36**	**0.37**	**0.37**	**0.343**	**0.363**	**0.366**	**0.337**	**0.366**	**0.403**	**0.38**	**0.41**	**0.39**	**0.4**	**0.39**	**0.39**	**0.41**	**0.39**	**0.4**	**0.4**
Beryllium	0.004	mg/L	< 0.004	< 0.01	< 0.01	< 0.01	< 0.004	< 0.0002	< 0.0002	**0.00028 J**	< 0.0002	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	**0.00083 B**	**0.00059 B**	< 0.004	< 0.004
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.002	< 0.002	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.00094 B**
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**53.5**	**53.6**	**57**	**58**	**64**	**56**	**60**	**60**	**63**	**61**	**62**	**61**
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.0012	**0.0013 J**	**0.0051 J**	**0.0018 J**	<0.01	<0.01	<0.01	**0.0018 J**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01 N	< 0.01 N	< 0.01
Cobalt	*	mg/L	--	--	--	--	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	< 0.007	< 0.01	< 0.01	**0.019**	< 0.01	< 0.01	**0.002 B**	**0.0021 J**	**0.0017 B**	**0.0018 B**	**0.0023 B**	**0.0017 B**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.0019	< 0.0019	**0.004 J**	< 0.0019	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0016 B**	< 0.02	< 0.02	< 0.02N	< 0.02N	**0.00096 B**
Cyanide	0.2	mg/L	< 0.01	0.02	< 0.01	**0.012**	**0.014**	**0.013**	**0.0098 J**	**0.031**	**0.012**	**0.0080 J**	**0.013**	**0.014**	**0.012**	**0.0079 J**	< 0.01	< 0.01	**0.005**	< 0.01	< 0.01	< 0.01	**0.011**	< 0.01	< 0.01	< 0.015	**0.01**	< 0.01	**0.0098 B**	**0.014**	**0.0095 B**	**0.0059 B**
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.004	< 0.004	**0.0051 J**	< 0.004	<0.01	<0.01	<0.01	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.003	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0018	< 0.005	< 0.005	**0.0018 B**	< 0.005	
Magnesium	*	mg/L	--	--	--	--	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	**21.5**	**21.1**	**23**	**23**	**25**	**25**	**23**	**24**	**24**	**23**	**24**	**22**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	**0.00012 B**	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04	< 0.0023	< 0.0023	**0.015 J**	< 0.0023	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Potassium	*	mg/L	--	--	--	--	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	**10.7**	**9.54**	**11**	**14**	**13**	**11**	**11**	**7.6**	**8.8 N**	**17**	**14**	**8.6**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.02	< 0.02	< 0.02	< 0.01	< 0.01	< 0.02	< 0.02	< 0.02	< 0.02	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	**0.02**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**43.9**	**47.4**	**48**	**49**	**24**	**41**	**46**	**39**	**38**	**44**	**43**	**41**
Thallium	0.002	mg/L	< 0.002	< 0.02	< 0.02	< 0.02	< 0.001	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 1.0	< 1.0	< 0.001	< 0.001	< 0.001	< 0.001	**0.035**	< 0.001	< 0.001	< 0.002	< 0.002 WN	< 0.002 J	< 0.002	< 0.002	< 0.002	< 0.002
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0024	< 0.0024	**0.0075 J**	< 0.0024	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.007	< 0.01	< 0.01	**0.01**	< 0.01	< 0.01	< 0.01	< 0.01	**0.0025 B**	< 0.01	< 0.01	< 0.01
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	**0.0242**	< 0.02	< 0.0087	**0.027**	**0.51**	**0.037**	< 0.02	**0.12**	**0.1**	**0.045**	< 0.02	< 0.02	**0.146**	< 0.02	< 0.02	< 0.02	**0.02**	< 0.02	**0.5**	< 0.02	**0.03**	**0.025**	< 0.02	**0.012 B**	< 0.02	**0.016 B**	**0.024**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12
		Sample Date	1/23/2018	1/23/2018 DUP	7/25/2017	7/25/2017 DUP	1/24/2017	1/24/2017 DUP	7/26/2016	7/26/2016 DUP	1/19/2016	1/19/2016 DUP	7/29/2015	7/29/15 DUP	1/14/2015	1/14/2015 DUP	7/14/2014	7/14/2014 DUP	1/8/2014	1/8/2014 DUP	7/10/2013	7/10/2013 DUP	1/9/2013	1/9/2013 DUP	7/25/2012	7/25/2012 DUP	1/18/2012	1/18/2012 DUP	7/5/2011	7/5/2011 DUP	1/18/2011	1/18/2011 DUP	7/14/2010	7/14/2010 DUP	1/6/2010	1/6/2010 DUP	7/23/2009	7/22/2008	7/22/2008 DUP	1/8/2008	1/8/2008 DUP	7/10/2007	7/10/2007 DUP	2/14/2007
		Unit	Post-ISCO																																		
Field Parameters																																					
Conductivity	*	mS/cm	0.239	0.234	0.25	0.25	0.249	0.249	0.232	0.232	0.181	0.181	239	239	0.252	0.252	0.199	0.199	0.197	0.197	0.237	0.237	0.390	0.390	0.430	0.430	0.364	0.364	0.421	0.421	0.280	0.280	0.475	0.475	0.389	0.389	0.747	0.768	0.768	0.888	0.888	0.692	0.692	0.567
Dissolved Oxygen (YSI)	*	mg/L	0.12	0.12	0.2	0.2	0.03	0.03	0.67	0.67	0.49	0.49	0.31	0.31	0.33	0.33	0.14	0.14	0.64	0.64	0.98	0.98	0.42	0.42	0.42	0.68	0.68	1.74	1.74	0.49	0.49	5.41	5.41	0.3	0.3	3.41	3.41	5.54	1.05	1.05	0.87	0.87	1.44	1.44	0.27
Oxidation Reduction Potential	*	mV	-67.5	-67.5	-59.6	-59.6	-29.3	-29.3	-53.4	-53.4	-55	-55	265.1	265.1	-11.2	-11.2	-96.3	-96.3	-16.7	-16.7	-96.0	-96.0	32.6	32.6	-22.0	-22.0	-22.0	-22.0	-22.2	-22.2	93	93	-81.8	-81.8	-48.9	-48.9	-256.1	-165.4	-165.4	-156.6	-156.6	-31.8	-31.8	-112.5
pH	*	SU	5.4	5.4	6.12	6.12	6.05	6.05	6.03	6.03	5.9	5.9	6.01	6.01	5.46	5.46	5.83	5.83	5.86	5.86	5.72	5.72	5.94	5.94	6.04	6.04	6.33	6.33	6.17	6.17	0.284	0.284	6.13	6.13	6.92	6.92	6.99	6.35	6.35	5.76	5.76	6.47	6.47	5.51
Temperature	Celsius		21.68	21.68	24.05	24.05	20.94	20.94	24.51	24.51	19.57	19.57	26.7	26.7	12.4	12.40	21.61	21.61	18.28	18.28	20.20	20.20	14.85	14.85	22.04	22.04	19.31	19.31	21.65	21.65	18.71	18.71	22.37	22.36	15.24	15.24	24.37	22.56	22.56	20.63	20.63	21.93	21.93	19.13
Turbidity	*	NTU	2.26	2.26	1.15	1.15	0.88	0.88	2.37	2.37	1.27	1.27	3.43	3.43	1.47	1.47	0.38	0.38	0.56	0.56	0.86	0.86	0.61	0.61	5.45	5.45	0.79	0.79	4.88	4.88	9	9	3.97	3.97	2.13	2.13	76.6	18.9	18.9	4.49	4.49	41.4	41.4	0.50
Monitored Natural Attenuation Parameters																																					
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	251	259	176	162	258	257	173	171	210	230	230	220	2,900 B	2,500 B	2,200 * B	2,300 * B	2,300	1,900	1,600 JB	1,600 JB	1,200	1,300	740	2,000	1,900	1,000	< 1,000	< 1,000	< 1,000	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	6.66	7.79 H	4.08	4.21	11	4.25 H	2.92	2.77 H	5.8 HF	5.7 HF	7.7 HF	7.8 HF	5.9 HF	7.7 HF	4.9 HF	5.4 HF	6.2 HF	6.4 HF	6.3 HF	7.0 HF	3.9 HF	4.0 HF	< 0.10 HF	3.9	4.2	29.2	30.0	22.5	20.9	30.2
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	3,000	3,700	3,200	2,900	2,000	1,800	1,600	1,400	1,300	770	630	740	720	1,100	910	980	1,100	510	1,500	1,300	560	710	930	1600	990	2,000	2,100	1,100	1,300	1,500
Nitrate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.075	< 0.075	< 0.075	< 0.075	< 0.36	< 0.36	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.50	< 0.50	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	3.02 H	5.98 H	5.76 H	5.01 H	7.10 H	7.09 H	4.71 H	5.76 H	4.6	4.8	4.5	3.9	0.9	1.0	1.4	1.4	1.1	1.4	1.3	1.3	1.3	1.3	1.1	1.1	0.92	0.81	1.0	2.0	1.8	0.83
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6	1.5	31	31	33	34	19	32	8.4	9.5	9.9	9.8	6.2	5.1	8.5	11	40	68	69	210	220	130	120	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170
Volatile Organic Compounds																																					
Acetone	4,000	µg/L	< 2500	< 2500	< 5000	< 5000	< 5000	< 5000	< 2500	< 50	< 5000	< 5000	< 1.0	< 5000	< 50	< 50	< 1,000	< 1,000	< 50	< 50	< 50	< 50	< 100	< 100	< 100	< 100	< 50	< 5.0	< 25	< 50	< 25	< 100	**11 J**	**190 J**	< 5,000	< 5,000	< 5,000	< 1,000	< 2,000	< 50	< 50	< 2,500	< 2,500	**120**
Benzene	5	µg/L	**11000**	**11000**	**8700**	**9300**	**10000**	**10000**	**10000**	**8600**	**8200**	**8500**	**6200**	**6000**	**3,500**	**3,600**	**5,700**	**5,500**	**2,200**	**2,200**	**1,900**	**1,900**	**220**	**120**	**73**	**69**	**100**	**71**	**210**	**590**	**540**	**410**	**1,800**	**2,300**	**3,500**	**3,600**	**3,600**	**1,800**	**1,800**	**2,000**	**2,100**	**7,500**	**7,200**	**9,900**
Carbon Disulfide	4,000	µg/L	< 250	< 250	< 500	< 500	< 500	< 500	< 250	< 5.0	< 500	< 500	< 1.0	< 500	< 5.0	< 5.0	< 100	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 6.0	< 0.60	< 3.0	< 6.0	< 3.0	< 12	< 5.0	< 100	< 250	< 250	< 250	< 50	< 100	< 5.0	< 5.0	< 5	< 250	< 5
Ethylbenzene	700	µg/L	**2400**	**2400**	**2200**	**2300**	**2500**	**2500**	**2700**	**2200**	**2400**	**2500**	**1800**	**1500**	**930**	**990**	**1,700**	**1,600**	**720**	**680**	**540**	**530**	**93**	**52**	**39**	**34**	**120**	**76**	**130**	**240**	**280**	**190**	**470**	**600**	**730**	**760**	**470**	**440**	**390**	**290**	**270**	**530**	**500**	**1,000**
Methylene Chloride	5	µg/L	< 250	< 250	< 500	< 500	< 500	< 500	< 250	< 5.0	< 500	< 500	< 1.0	< 500	< 5.0	< 5.0	< 100	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 1.0	< 5.0	< 10	< 5.0	< 20	< 5.0	< 100	< 250	< 250	< 250	< 50	< 100	< 5.0	< 5.0	< 5	**940**	< 5
Toluene	1,000	µg/L	**920**	**940**	**1400**	**1600**	**1700**	**1800**	**1900**	**1800**	**1500**	**1500**	**690**	**640**	**720**	**740**	**660**	**680**	**330**	**330**	**160**	**200**	< 5.0	< 5.0	< 5.0	< 5.0	< 3.3	**0.90 J**	**2.9 J**	**5.9 J**	**8.3 J**	**7.9 J**	**24**	**25 J**	< 250	< 250	**370**	**3.8 J**	< 100	**39**	**40**	**340**	**320**	**2,000**
Trichloroethylene	5	µg/L	< 250	< 250	< 500	< 500	< 500	< 500	< 250	< 5.0	< 500	< 500	< 1.0	< 500	< 5.0	< 5.0	< 100	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.3	< 0.13	< 0.65	< 1.3	< 0.65	< 2.6	< 5.0	< 100	< 250	< 250	< 250	< 50	< 100	< 5.0	< 5.0	< 5	< 250	< 5
Xylenes, total	2,000	µg/L	**1700**	**1800**	**1700**	**1900**	**2100**	**2100**	**2000**	**1900**	**1400**	**1500**	**1200**	**950**	**940**	**980**	**1,300**	**1,300**	**530**	**520**	**350**	**330**	**8.2**	**6.4**	< 5.0	< 5.0	< 2.0	**3.3 J**	**20 J**	**30 J**	**70**	**52 J**	**270**	**280**	**450**	**470**	**410**	**48 J**	**48 J**	**110**	**120**	**400**	**370**	**1,100**
Semivolatile Organic Compounds																																					
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	2,000	µg/L	**100**	**120**	**130**	**120**	**120**	**120**	**95**	**96**	**120 J**	**87 J**	**74**	**76**	**69**	**73**	**110**	**120**	**71**	**68**	**23**	**25**	< 22	< 22	**33**	**20**	**32**	**52**	**22**	**21**	**24**	**28**	< 190	< 94	<100	<100	< 3.8	**27**	**44**	**31**	**28**	**26**	**25**	**31**
Acenaphthylene	10	µg/L	**3.3 J**	**5.2 J**	**6.1**	**5.1**	**9.9**	**9.3**	**5.2 J**	**7.1 J**	**6.0 J**	**4.0 J**	**1.4**	**2.3**	**1.7**	**3.3**	**20**	**21**	**10.0**	**12.0**	**1.0**	**1.0**	< 22	< 22	< 9.5	< 9.5	**1.8**	**4.8**	**2.8**	**2.4**	**5.2**	**5.8**	< 190	< 94	<100	<100	< 3.8	**1.0 J**	< 3.9	< 10	< 10	< 10	< 10	**11**
Anthracene	1,000	µg/L	**2.1 J**	**2.3**	**1.7 J**	**2.4 J**	**2.9**	**2.8**	**1.8**	**1.7**	**2.2 J**	**1.6 J**	**1.3**	**1.4**	**1.5**	**1.9**	**2.4**	**2.6**	**1.7**	**1.7**	**1.8**	**0.74**	< 22	< 22	< 9.5	< 9.5	**0.83**	**1.9 J**	< 1.1	< 1.1	< 0.99	**1.2 J**	< 190	< 94	<100	<100	< 3.8	**0.84 J**	**1.1 J**	< 10	< 10	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	**0.053 J**	< 0.05	< 0.05	< 0.05	**0.056**	**0.058**	< 0.05	< 0.05	**0.053**	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 22	< 22	< 9.5	< 9.5	< 0.097	< 1.0	< 1.1	< 1.1	< 0.99	< 0.96	< 190	< 94	<100	<100	< 3.8	< 3.9	< 3.9	< 0.050	< 0.050	**0.060**	< 0.050	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 22	< 22	< 9.5	< 9.5	**0.17 J**	< 1.0	< 1.1	< 1.1	< 0.99	< 0.96	< 190	< 94	<100	<100	< 3.8	< 3.9	< 3.9	< 0.050	< 0.050	< 0.05	**0.21**	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 22	< 22	< 9.5	< 9.5	< 0.097	< 1.0	< 1.1	< 1.1	< 0.99	< 0.96	< 190	< 94	<100	<100	< 3.8	< 3.9	< 3.9	< 0.10	< 0.10	< 0.1	**0.23**	< 0.1
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 22	< 22	< 9.5	< 9.5	< 0.097	< 1.0	< 1.1	< 1.1	< 0.99	< 0.96	< 190	< 94	<100	<100	< 3.8	< 3.9	< 3.9	< 10	< 10	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 22	< 22	< 9.5	< 9.5	< 0.097	< 1.0	< 1.1	< 1.1	< 0.99	< 0.96	< 190	< 94	<100	<100	< 3.8	< 3.9	< 3.9	< 10	< 10	< 10	< 10	< 10
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 22	< 22	< 9.5	< 9.5	< 0.044	< 0.45	< 0.48	< 0.48	< 0.44	< 0.43	< 190	< 94	<100	<100	< 3.8	< 3.9	< 3.9	< 0.050	< 0.050	< 0.05	< 0.050	< 0.05
Dibenz(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 22	< 22	< 9.5	< 9.5	< 0.097	< 1.0	< 1.1	< 1.1	< 0.99	< 0.96	< 190	< 94	<100	<100	< 3.8	< 3.9	< 3.9	< 0.10	< 0.10	< 0.1	**0.63**	< 0.1
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	1,000	µg/L	**0.29 J**	**0.29**	**0.3**	**0.39**	**0.43**	**0.39**	**0.28**	**0.26**	**0.5**	**0.43**	**0.25**	**0.26**	**0.26**	**0.26**	**0.35**	**0.56**	**0.58**	**0.28**	**0.32**	**0.16**	**0.16**	< 22	< 22	< 9.5	< 9.5	< 0.097	< 1.0	< 1.1	< 1.1	< 0.99	< 0.96	< 190	< 94	<100	<100	< 3.8	< 3.9	< 3.9	< 10	< 10	< 10	< 10	< 10
Fluorene	1,400	µg/L	**21**	**23**	**24**	**23**	**25**	**26**	**20**	**21**	**27**	**20**	**15**	**16**	**18**	**23**	**29**	**33**	**19**	**19**	**8.1**	**7.9**	< 22	< 22	< 9.5	< 9.5	**7.3**	**19**	**8.8**	**8.7**	**11**	**12**	< 190	< 94	<100	<100	< 3.8	**8.6**	**14**	**12**	**11**	**20**	**17**	**16**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 22	< 22	< 9.5	< 9.5	< 0.097	< 1.0	< 1.1	< 1.1	< 0.99	< 0.96	< 190	< 94	<100	<100	< 3.8	< 3.9	< 3.9	< 0.050	< 0.050	< 10	**0.53**	< 0.05
Naphthalene	20	µg/L	**5500**	**6500**	**6300**	**7100**	**7000**	**7100**	**5200**	**5500**	**4000 J**	**810 J**	**4700**	**5200**	**3,700**	**4,900**	**5,700**	**6,200**	**3,800**	**3,300**	< 0.50	< 0.50	**480**	**450**	**880**	**520**	**630**	**3,300**	**690**	**950**	**1,300**	**1,500**	**3,000**	**2,800**	**3,100**	**2,200**	**340**	**2,000**	**2,500**	**2,100**	**2,400**	**4,200**	**4,500**	**3,100**
Phenanthrene	10	µg/L	**13**	**14**	**15**	**19**	**16**	**16**	**12**	**13**	**15 J**	**9.6 J**	**10**	**12**	**11**	**14**	**21**	**23**	**14**	**14**	**3.8**	**3.3**	< 22	< 22	< 9.5	< 9.5	**5.1**	**12**	**3.6**	**4.8**	**5.6**	**6.9**	< 190	< 94	<100	<100	< 3.8	**6.5**	**10**	**10**	< 10	**15**	**14**	**16**
Pyrene	1,000	µg/L	**0.33 J**	**0.36**	**0.31 J**	**0.42 J**	**0.46**	**0.45**	**0.3**	**0.28**	**0.5**	**0.43**	**0.26**	**0.24**	**0.23**	**0.32**	**0.44**	**0.47**	**0.27**	**0.3**	**0.13**	**0.15**	< 22	< 22	< 9.5	< 9.5	**0.11 J**	< 1.0	< 1.1	< 1.1	< 0.99	< 0.96	< 94	< 94	<100	<100	< 3.8	< 3.9	< 3.9	< 10	< 10	< 10	< 10	< 10
Inorganic Compounds																																					
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.0200	< 0.02	< 0.020	< 0.02
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	<0.0500	<0.0500	< 0.05	< 0.050	< 0.05
Barium	2	mg/L	**0.145**	**0.16**	**0.195**	**0.196**	**0.209**	**0.183**	**0.22**	**0.212**	**0.212**	**0.218**	**0.218**	**0.213**	**0.231**	**0.236**	**0.182**	**0.178**	**0.212**	**0.213**	**0.225**	**0.221**	**0.32**	**0.32**	**0.44**	**0.44**	**0.39**	**0.44**	**0.35**	**0.41**	**0.28**	**0.27**	**0.30**	**0.31**	**0.23**	**0.22**	**0.30**	**0.54**	**0.55**	**0.354**	**0.394**	**0.170**	**0.177**	**0.149**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.0040	< 0.0040	**0.00096 J**	**0.0014 J**	**0.0011 J**	**0.00079 J**	**0.0013 J**	**0.0015 J**	**0.00055 J**	**0.00056 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0133**
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.0050	< 0.005
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010	< 0.010	**0.0012 J**	**0.0032 J**	**0.0039 J**	**0.0023 J**	**0.0026 J**	**0.0025 J**	**0.0014 J**	**0.0014 J**	<0.010	<0.010	**0.015**	**0.0039 J**	0.0033	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0136**
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.01
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	**0.017**	**0.012**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	**0.012**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	**0.019**	**0.011**	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0076	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	--	--	--	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.01
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0000991	< 0.0000991	< 0.0000991	< 0.0000991	< 0.0000991	< 0.0000991	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.00020	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	< 0.040	< 0.040	< 0.0023	< 0.0023	< 0.0023	**0.0028 J**	**0.0033 J**	**0.0024 J**	< 0.040	< 0.040	< 0.040	< 0.040	**0.09**	**0.0110 J**	0.011	**0.0787**	**0.0931**	**0.309**	**0.345**	**0.0349**
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-17	MW-17
		Sample Date	7/13/2006	2/8/2006	1/16/2006	7/21/2005	1/19/2005	7/16/2004	7/17/2003	1/20/2003	7/9/2002	1/17/2002	1/02 DUP	7/17/2001	1/17/2001	1/01 DUP	10/4/2006	10/06 (RA)
		Unit	Post-ISCO			Pre-ISCO											Post-ISCO	
Field Parameters																			
Conductivity	*	mS/cm	0.836	--	--	--	--	--	--	--	--	--	--	--	--	--	0.527	--
Dissolved Oxygen (YSI)	*	mg/L	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	1.15	--
Oxidation Reduction Potential	*	mV	-79.6	--	--	--	--	--	--	--	--	--	--	--	--	--	130.1	--
pH	*	SU	5.19	--	--	--	--	--	--	--	--	--	--	--	--	--	5.94	--
Temperature	*	Celsius	22.79	--	--	--	--	--	--	--	--	--	--	--	--	--	21.08	--
Turbidity	*	NTU	0.12	--	--	--	--	--	--	--	--	--	--	--	--	--	3.54	--
Monitored Natural Attenuation Parameters																			
Carbon Dioxide	*	µg/L	480	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	47.2	--	66.2	76.5	4.4	4.7	4.4	3.4	4.1	4.3	4.2	3.9	4.5	4.8	--	--	--
Iron, as Ferrous (Fe+2)	*	mg/L	49.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	2.28	--	3.55	6.28	1.8	2.1	1.6	1.6	1.8	1.8 N	1.8 N	1.7	1.7	1.7	--	--	--
Manganese, Dissolved	*	mg/L	2.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	0.25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	9.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	0.5 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	250	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																			
Acetone	4,000	µg/L	**2,400**	--	3,300 U	1,200 U	25,000 U	25,000 U	5,000 U	5,000 U	5,000 U	5,000 U	12,000 U	1,200 U	5,000 U	5,000 U	50 U	--
Benzene	5	µg/L	**9,700**	--	**8,800**	**13,000**	**53,000**	**59,000**	**66,000**	**68,000 D**	**57,000 D**	**53,000 D**	--	**69,000 D**	**66,000 D**	**65,000 D**	5 U	--
Carbon Disulfide	4,000	µg/L	**20**	--	330 U	50 U	1,000 U	1,000 U	200 U	200 U	200 U	200 U	500 U	50 U	200,000 U	200,000 U	5 U	--
Ethylbenzene	700	µg/L	**630**	--	**700**	**1,500**	**4,600**	**4,400**	**5,200**	**4,800**	**4,200**	**5,200**	**5,700**	**6,000**	**6,400**	**6,200**	5 U	--
Methylene Chloride	5	µg/L	5 U	--	330 U	250 U	5,000 U	5,000 U	1,000 U	1,000 U	1,000 U	1,000 U	2,500 U	250 U	**68 JB**	**130 JB**	5 U	--
Toluene	1,000	µg/L	**2,900**	--	**1,900**	**4,000**	**18,000**	**19,000**	**21,000**	**14,000**	**13,000**	**14,000**	**15,000**	**21,000 D**	**18,000**	**17,000**	5 U	--
Trichloroethylene	5	µg/L	5 U	--	330 U	50 U	1,000 U	1,000 U	200 U	**38 J**	200 U	200 U	500 U	50 U	200 U	200 U	5 U	--
Xylenes, total	2,000	µg/L	**770**	--	670 U	**1,500**	**5,200**	**4,400**	**4,600**	**3,700 B**	**3,300**	**4,300**	**4,800**	**5,900**	**5,700**	**5,500**	5 U	--
Semivolatile Organic Compounds																			
2-Methylnaphthalene	*	µg/L	--	--	**270**	**260**	**470**	**380**	**510 J M**	**550 D**	**540**	**500**	**490**	**710**	**600**	**670**	--	--
Acenaphthene	2,000	µg/L	**22**	--	**44**	10 U	10 U	200 U	**88**	**99**	**100**	**92 J**	**90 J**	**110**	**100**	**110**	10 U	--
Acenaphthylene	10	µg/L	10 U	--	**22**	**26**	10 U	200 U	**89**	**64**	**67 J**	10 U	0.2 U	**110**	**88**	**98**	10 U	--
Anthracene	10	µg/L	10 U	--	**10**	10 U	10 U	200 U	10 U	**2.0 J**	10 U	10 U	0.2 U	**2.2 J**	50 U	**2.7 J**	10 U	--
Benz(a)anthracene	0.1	µg/L	0.05 U	--	10 U	10 U	10 U	200 U	10 U	10 U	10 U	10 U	0.2 U	50 U	50 U	**4.8 J**	**0.17 R**	0.05 UJ
Benzo(a)pyrene	0.2	µg/L	0.05 U	--	10 U	10 U	10 U	200 U	10 U	10 U	10 U	10 U	0.2 U	50 U	50 U	50 U	**0.23 R**	0.05 UJ
Benzo(b)fluoranthene	0.2	µg/L	0.1 U	--	10 U	10 U	10 U	200 U	10 U	10 U	10 U	10 U	0.2 U	50 U	50 U	50 U	**0.25 R**	0.1 UJ
Benzo(g,h,i)perylene	10	µg/L	10 U	--	10 U	10 U	10 U	200 U	10 U	10 U	10 U	10 U	0.2 U	50 U	**5.7 J**	**4.8 J**	10 U	--
Benzo(k)fluoranthene	10	µg/L	10 U	--	10 U	10 U	10 U	200 U	10 U	10 U	10 U	10 U	0.2 U	50 U	50 U	50 U	10 U	--
Chrysene	0.2	µg/L	0.05 U	--	10 U	10 U	10 U	200 U	10 U	10 U	10 U	10 U	0.2 U	50 U	**4.3 J**	**4.2 J**	**0.15 R**	0.05 UJ
Dibenzo(a,h)anthracene	0.3	µg/L	0.1 U	--	10 U	10 U	10 U	200 U	10 U	10 U	10 U	10 U	0.2 U	50 U	50 U	**5.2 J**	**0.32 R**	0.1 UJ
Dibenzofuran	1	µg/L	--	--	50 U	10 U	10 U	200 U	10 U	**6.0 J**	**6.2 J**	**5.3 J**	0.2 U	**7.2 J**	**6.5 J**	**7.5 J**	--	--
Fluoranthene	1,000	µg/L	10 U	0.0008 U	**16**	10 U	10 U	200 U	10 U	10 U	10 U	10 U	0.2 U	50 U	50 U	50 U	10 U	--
Fluorene	1,000	µg/L	**17**	--	**31**	**12**	10 U	200 U	**24**	**23**	**22 J**	10 U	0.2 U	50 U	**29 J**	**30 J**	10 U	--
Indeno(1,2,3-cd)pyrene	0.4	µg/L	0.05 U	--	10,000 U	10 U	10 U	200 U	10 U	10 U	10 U	10 U	0.2 U	50 U	50 U	50 U	**0.31 R**	0.05 UJ
Naphthalene	20	µg/L	**2,900**	--	**2,000**	**2,300**	**6,700**	**5,900**	**12,000 J M**	**7,600 D**	**8,900 D**	**8,600 D**	**8,700 D**	**10,000 D**	**10,000 D**	**11,000 D**	10 U	--
Phenanthrene	10	µg/L	**18**	--	**47**	**12**	10 U	200 U	**17**	**16**	**18 J**	**15 J**	**15 J**	**19 J**	**20 J**	**22 J**	10 U	--
Pyrene	1,000	µg/L	10 U	0.0008 U	**14**	10 U	10 U	200 U	10 U	10 U	10 U	10 U	0.2 U	50 U	50 U	50 U	10 U	--
Inorganic Compounds																			
Aluminum (fume or dust)	*	mg/L	--	--	**1.81**	**1.75**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.043 BN**	0.2 U	0.2 U	--	--
Antimony	0.01	mg/L	0.02 U	--	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0052 B**	0.02 U	**0.0053 B**	**0.0052 B**	0.02 U	--
Arsenic	0.05	mg/L	0.05 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0039 B**	0.01 U	**0.0056 B**	0.01 U	0.01 U	0.05 U	--
Barium	2	mg/L	**0.0631**	--	0.2 U	**0.0699**	**0.69**	**0.7**	**0.64**	**0.63**	**0.65**	**0.67**	**0.66**	**0.64**	**0.64**	**0.62**	**0.0453**	**--**
Beryllium	0.004	mg/L	**0.0266**	--	**0.0318**	**0.0278**	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	**0.00091 B**	**0.00089 B**	0.004 U	**0.0022 B**	**0.0022 B**	0.01 U	--
Cadmium	0.005	mg/L	0.005 U	--	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	--
Calcium metal	*	mg/L	--	--	**74.7**	**132**	**50**	**57**	**44**	**47**	**50**	**50**	**50**	**47**	**45**	**46**	--	--
Chromium	0.1	mg/L	**0.0386**	--	**0.0692**	**0.219**	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.04**	0.01 U	--
Cobalt	*	mg/L	--	--	**0.579**	**0.537**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	--
Copper	1.3	mg/L	0.01 U	--	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0016 B**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.01 U	--
Cyanide	0.2	mg/L	**0.011**	--	0.01 U	0.01 U	**0.049**	**0.055**	0.015 U	**0.038**	**0.051**	**0.05**	**0.039**	**0.06**	**0.023**	**0.024**	0.01 U	--
Lead	0.015	mg/L	0.01 U	--	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.0032 B**	**0.0025 B**	0.01 U	--
Magnesium	*	mg/L	--	--	**52.1**	**87.5**	**40**	**45**	**40**	**38**	**40**	**41**	**41**	**38**	**37**	**37**	--	--
Mercury	0.002	mg/L	0.0002 U	--	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 UJ	**0.00015 B**	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U	0.0002 U	--
Nickel	0.1	mg/L	**0.146**	--	**0.262**	**0.063**	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	**0.017 B**	0.02 U	--
Potassium	*	mg/L	--	--	**7.09**	**6.45**	**1.9**	**1.9**	**2**	**1.8**	**1.8**	**2 N**	**2 N**	**1.8**	**2.0**	**2.0**	--	--
Selenium	0.05	mg/L	0.02 U	--	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0047 B**	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	--
Sodium	*	mg/L	--	--	**24.3**	**27.3**	**34**	**37**	**36**	**33**	**32**	**31**	**31**	**32**	**30**	**30**	--	--
Thallium	0.002	mg/L	0.001 U	--	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.002 UWN	0.002 UJ	0.002 U	0.002 U	0.002 UN	0.002 U	0.002 U	0.001 U	--
Vanadium (fume or dust)	0.2	mg/L	**0.0174**	--	**0.0303**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--
Zinc	2	mg/L	0.02 U	--	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	--

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19
		Sample Date	1/25/2018	1/25/2018 DUP	7/26/2017	1/25/2017	1/25/2017 DUP	7/27/2016	7/27/2016 DUP	1/21/2016	1/21/2016 DUP	7/30/2015	1/14/2015	7/17/2014	1/9/2014	7/10/13	1/9/2013	7/25/2012	1/19/2012	7/6/2011	1/18/2011	7/13/2010	1/11/2010	7/23/2009	1/13/2009	7/17/2008	1/10/2008	7/12/2007	2/13/2007	7/13/2006	2/8/2006	1/10/2006	7/20/2005	7/12/2004	2/10/2004	7/15/2003	1/17/2003	7/11/2002	1/21/2002	1/21/2002 DUP	7/12/2001	1/17/2001
		Unit	Post-ISCO																													Pre-ISCO									
Field Parameters																																									
Conductivity	*	mS/cm	0.472	0.472	0.504	0.495	0.495	0.623	0.623	0.576	0.576	580	0.529	0.626	0.472	0.630	0.520	0.744	0.484	0.602	1.86	0.808	0.775	0.819	2.68	0.785	0.900	1.437	0.868	1.245	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.69	0.69	0.52	1.47	1.47	0.96	0.96	0.69	0.69	1.85	0.77	0.98	0.90	0.42	1.39	1.59	0.92	1.99	6.08	3.81	4.54	1.57	6.15	6.85	8.78	3.53	12.21	3.09	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	-11	-11	26.4	29.3	29.3	109.9	109.9	56.7	56.7	252.8	113.4	83.9	128.2	96.4	134.3	100	127.0	139.9	144.8	-130.1	19.2	70.1	84.7	124.1	226.7	162.3	203	148.2	--	--	--	--	--	--	--	--	--	--	--	--
pH	*	SU	6.38	6.38	6.18	6.56	6.56	6.06	6.06	6.19	6.19	6.22	5.84	6.26	6.34	6.18	6.18	6.14	6.12	5.68	0.662	8.68	9.22	5.82	7.65	6	5.85	6.16	6.21	6.25	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	19.65	19.65	22.87	21.54	21.54	27.62	27.62	18.27	18.27	23	16.00	25.86	17.37	23.71	20.66	29.00	21.48	24.68	18.46	25.71	15.62	24.07	17.55	23.83	20.26	22.75	19.81	21.96	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	2.19	2.19	12.8	8.32	8.32	8.5	8.5	4.1	4.1	3.07	1.55	0.42	9.12	5.36	9.45	3	8.3	52.4	117	8.5	9.85	8.12	3.46	3.24	3.68	12.3	3.11	29.8	--	--	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																																									
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	--	--	--	--	236	198	272	251	110	120	1,300 B	1,200 * B	1,100	NA	910	880	1,200	1,000	< 1000	< 1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.14	--	1.9	1.08	0.56	0.16	0.04 U	0.15	0.11	0.74	0.71	0.044 B	0.12
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	--	--	--	--	< 0.100	< 0.100	< 0.100	< 0.100	< 0.10 HF	< 0.10 HF	< 0.025 HF	< 0.025 HF	0.17 HF	NA	0.82 HF	3.9 HF	0.80 HF	< 0.10	< 0.10	< 0.10	< 0.1	0.1 U	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.107	--	0.133	0.0624	0.013	0.01 U	0.58	0.48	0.46	0.38	0.39	0.34	0.48
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0108	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	--	--	--	--	< 4	7	7	6	1.1	1.1	< 0.58	< 0.29	< 0.29	< 0.19	NA	0.31	< 0.19	0.23	0.12	0.11	7.8	0.21	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	--	--	--	--	0.7	0.93	0.47	<0.25	0.46	0.76	1.3	1.7	7.5	NA	7.9	8.7	2	9.7	3.9	2.3	4.3	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	--	--	--	--	7.50 H	6.23 H	5.38 H	6.51 H	5.9	5.3	1.6	1.6	1.4	NA	1.4	1.2	1.3	1.6	8.7	12	12	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	--	--	--	--	87	120	110	110	100	140	55	88	94	NA	210	120	170	120	190	490	180	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																																									
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	**5.2 J**	< 50	< 50	**120**	50 U	--	10 U	25 U	25 U	25 U	25 U	25 U	25 U	**17 J**	**14 J**	25 U	25 U
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	< 0.25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	**9,900**	5 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**10**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	--	1.0 U	1.0 U	1.0 U	**20**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	**1,000**	5 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.12 J**
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	--	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.35 J**	5.0 U	5.0 U	**0.26 JB**
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	**2,000**	5 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.49 J**
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**9.4**	**3.0 J**	**1.8 J**	**1.7 J**	< 5.0	< 5.0	< 5.0	**3.1 J**	**7.0**	< 5.0	< 5	< 5	5 U	--	1.0 U	**1.1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	**1,100**	5 U	--	2.0 U	2.0 U	2.0 U	**2.5**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds																																									
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20	< 0.19	< 0.098	< 0.12	< 0.11	< 0.19	< 0.20	< 0.20	< 0.19	< 0.20	< 10	< 10	**31**	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20	< 0.19	< 0.098	< 0.12	< 0.11	< 0.19	< 0.20	< 0.20	< 0.19	< 0.20	< 10	< 10	**31**	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.19	< 0.098	**0.21 J**	**0.18 J**	< 0.19	**0.38**	< 0.20	**0.026 J**	< 0.20	< 10	< 10	**11**	10 U	0.2 U	**0.26**	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	**0.098**	**0.099**	**0.063**	**0.24**	**0.16**	**0.06**	**0.079**	**0.11**	**0.14**	**0.12**	**0.092**	**0.15**	**0.1**	**0.11**	< 0.20	< 0.19	< 0.098	< 0.12	< 0.11	< 0.19	**0.24**	< 0.20	< 0.19	< 0.20	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	**0.095**	**0.056**	< 0.05	< 0.05	< 0.05	< 0.05	**0.053**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.020	< 0.19	**0.10 J**	**0.28**	**0.28**	< 0.19	**0.33**	< 0.20	< 0.19	< 0.20	**0.070**	**0.11**	< 0.05	**0.17**	0.2 U	**0.29**	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	**0.082**	**0.051**	< 0.05	< 0.05	< 0.05	< 0.05	0.054	< 0.050	< 0.050	< 0.050	< 0.050	< 0.020	< 0.19	**0.13 J**	**0.35**	**0.41**	< 0.19 *	**0.46**	< 0.20	< 0.19	< 0.20	**0.19**	**0.13**	< 0.05	**0.19**	0.2 U	**3.3**	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	**0.12**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.11**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	**0.20**	**0.23 J**	**0.19 J**	< 0.19	**0.39**	< 0.20	< 0.19	< 0.20	**0.15**	**0.16**	< 0.1	**0.22**	0.2 U	**3.9**	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	**0.1**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.098	**0.24 J**	**0.27**	< 0.19	**0.4**	< 0.20	< 0.19	< 0.20	< 10	< 10	< 10	10 U	0.2 U	**3.9**	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	**0.056**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.020	< 0.19	< 0.098	**0.25**	**0.26**	< 0.19	**0.35**	< 0.20	< 0.19	< 0.20	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	**0.075**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.020	< 0.19	**0.11 J**	**0.30**	**0.35**	< 0.19	**0.31**	< 0.20	< 0.19	< 0.20	**0.070**	**0.10**	< 0.05	**0.12**	0.2 U	**3.3**	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.098	< 0.12	< 0.11	< 0.19	< 0.20	< 0.20	< 0.19	< 0.20	**0.18**	< 0.1	< 0.1	0.1 U	--	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.098	**0.34**	**0.40**	< 0.19	**0.41**	< 0.20	< 0.19	< 0.20	< 10	< 10	< 10	10 U	0.2 U	**0.41**	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	**0.65 J**
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.098	< 0.12	< 0.11	< 0.19	< 0.20	< 0.20	< 0.19	< 0.20	< 10	< 10	**16**	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	**0.069**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.07	< 0.050	< 0.050	< 0.050	< 0.050	< 0.020	< 0.19	< 0.098	**0.20 J**	**0.23**	< 0.19	**0.33**	< 0.20	< 0.19	< 0.20	**0.24**	**0.080**	< 0.05	**0.12**	0.2 U	**0.29**	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 500	< 0.50	< 0.50	< 0.50	< 0.20	**0.49**	**0.20**	< 0.12	**0.42**	< 0.19	**9.4**	**0.54**	**0.026 J**	< 0.20	< 10	< 10	**3,100**	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	**0.051**	< 0.05	< 0.05	< 0.05	< 0.05	**0.056**	< 0.05	< 0.50	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.098	**0.13 J**	**0.12 J**	< 0.19	**0.2**	< 0.20	< 0.19	**0.019 J**	< 10	< 10	**16**	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	**0.19**	**0.11**	< 0.05	< 0.05	< 0.05	< 0.05	**0.12**	< 0.050	**0.082**	< 0.050	< 0.050	< 0.20	< 0.19	**0.23**	**0.57**	**0.65**	<0.19	**0.56**	< 0.20	< 0.19	< 0.20	< 10	< 10	< 10	10 U	**0.23**	**0.75**	**0.2**	0.2 U	0.2 U	10 UJ	10 U	10 U	10 U	10 U	10 U	**1.2 J**
Inorganic Compounds																																									
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2.52**	**1.29**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.07 B**	**0.83**	**0.78**	0.2 U	**0.098 B**
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	0.02 U	--	0.01 U	0.006 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0073 B**
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	**0.0063 J**	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	<0.0500	< 0.05	< 0.05	0.05 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.0856**	**0.0851**	**0.092**	**0.063**	**0.0629**	**0.0808**	**0.0806**	**0.0858**	**0.0886**	**0.0881**	**0.0824**	**0.0907**	**0.0935**	**0.123**	**0.12**	**0.098**	**0.036**	**0.076**	**0.025**	**0.021**	**0.027**	**0.023**	**0.022**	**0.019**	**0.0285**	**0.0330**	**0.149**	**0.0453**	--	0.2 U	**0.0568**	**0.056**	**0.054**	**0.06**	**0.067**	**0.068**	**0.067**	**0.068**	**0.069**	**0.073**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	**0.0133**	0.01 U	--	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	**0.0019 B**
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	**0.0091**	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	0.005 U	--	0.002 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**123**	**95.7**	**34**	**33**	**33**	**53**	**51**	**42**	**43**	**55**	**52**
Chromium	0.1	mg/L	< 0.01	< 0.01	**0.0167**	**0.0114**	**0.0109**	< 0.01	**0.01**	< 0.01	< 0.01	< 0.01	< 0.0100	**0.0127**	**0.0151**	< 0.0100	<0.010	**0.012**	**0.0088 J**	**0.26**	**0.015**	**0.012**	< 0.010	< 0.010	**0.0047 J**	**0.0069 J**	**0.0207**	**0.0257**	**0.0136**	**0.0668**	--	**0.0786**	**0.0277**	**0.098**	0.01 U	0.01 UJ	**0.0061 B**	**0.002 B**	**0.01**	**0.0093 B**	**0.0023 B**	**0.0035 B**
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 UJ	**0.011**	**0.0066 B**	**0.0038 B**	**0.0038 B**	**0.0047 B**	**0.0045 B**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	**0.0024 J**	**0.063**	**0.0026 J**	0.0021 J	<0.020	**0.021**	**0.0031 J**	**0.0023 J**	< 0.0100	< 0.010	< 0.010	**0.0157**	--	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0095 B**	**0.0042 B**	**0.0071 B**	**0.0068 B**	**0.0029 B**	**0.0015 B**
Cyanide	0.2	mg/L	**0.016**	**0.016**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02	**0.02**	< 0.010	**0.012**	**0.023**	**0.058**	**0.0096 J**	**0.020**	**0.014**	**0.02**	**0.033**	**0.013**	**0.0090 J**	**0.023**	**0.030**	< 0.010	< 0.010	**0.048**	--	**0.071**	**0.062**	**0.02**	**0.033**	**0.018**	**0.026**	**0.034**	**0.016**	**0.005 B**	**0.017**	**0.008 B**
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	**0.028**	< 0.0040	< 0.010 U	< 0.010	< 0.010	**0.0042 J**	< 0.0050	< 0.0100	< 0.010	< 0.010	**0.0244**	--	**0.0241**	**0.0156**	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	**0.0086**	**0.0079**	0.005 U	**0.0037 B**
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**61.7**	**48.2**	**20**	**18**	**20**	**23**	**23**	**21**	**21**	**24**	**24**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	0.0002 U	--	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	**0.0312**	**0.0322**	**0.0341**	**0.03**	**0.03**	**0.0363**	**0.0358**	**0.046**	**0.0412**	< 0.02	**0.0275**	**0.0432**	**0.0579**	**0.0568**	**0.073**	**0.073**	**0.023 J**	**0.066**	**0.032 J**	0.031 J	<0.040	**0.077**	**0.054**	**0.041**	**0.0546**	**0.0916**	**0.0349**	**0.0779**	--	**0.132**	**0.138**	**0.042**	0.04 U	**0.1**	**0.065**	**0.088**	**0.062**	**0.066**	**0.12**	**0.093**
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**6.83**	**6.22**	**7.6**	**6.4**	**6.6**	**5.2**	**5**	**5.9**	**5.9**	**4.9**	**6.0**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	**0.0039 J**	< 0.010	< 0.0200	< 0.02	< 0.02	0.02 U	--	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21
		Sample Date	1/25/2018	7/27/2017	1/25/2017	7/28/2016	1/20/2016	7/28/2015	1/12/2015	7/15/2014	1/9/2014	7/11/2013	1/9/2013	7/24/2012	1/18/2012	7/5/2011	1/20/2011	7/14/2010	1/7/2010	7/23/2009	1/15/2009	1/15/2009 DUP	7/21/2009	1/9/2008	1/9/2008 DUP	07/21/2008	7/11/2007	2/13/2007	7/12/2006	1/10/2006	7/22/2005	1/18/2005	7/13/2004	1/24/2004	7/20/2003	7/20/2003 DUP
		Unit	Post-ISCO																										Pre-ISCO					
Field Parameters																																			
Conductivity	*	mS/cm	0.629	0.706	0.711	0.685	0.574	720	0.614	0.631	0.702	0.518	0.460	0.457	0.305	0.481	2.64	0.554	0.43	0.533	0.47	0.47	0.474	0.590	0.590	0.474	0.526	0.536	0.462	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.37	0.14	0.15	0.16	0.29	0.23	0.42	0.74	0.24	0.50	0.33	2.04	4.01	1.97	120.5	4.91	3.41	0.51	212.1	212.1	0.33	0.31	0.31	0.33	0.39	0.30	0.75	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	83.4	130.2	20.2	109.6	59.2	272.3	63.9	144	187.3	111.7	94.7	90	101.0	63.0	6.53	119.1	45.1	124.4	6.3	6.3	122.5	75.0	75.0	122.5	189.6	-28.2	58	--	--	--	--	--	--	--
pH	*	SU	6.36	6.3	6.15	6.26	6.27	6.27	6.06	6.39	6.36	6.08	6.32	6.23	6.58	6.52	0.511	6.59	7.03	6.3	0.501	0.501	6.26	6.39	6.39	6.26	6.30	6.42	6.32	--	--	--	--	--	--	--
Temperature	*	Celsius	22.17	25.45	23.1	25.97	21.8	31.9	17.3	25.21	17.32	25.09	23.10	30.0	20.62	29.44	19.87	28.19	18.22	26.58	21.84	21.84	27.94	22.96	22.96	27.94	25.72	22.37	23.78	--	--	--	--	--	--	--
Turbidity	*	NTU	1.75	2.72	0.32	1.02	0.32	1.76	2.97	2.14	0.32	1.04	1.79	1.0	0.69	2.69	0.85	3.12	0.65	3.31	1.34	1.34	2.29	0.32	0.32	2.29	0.57	0.13	0.00	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																																			
Carbon Dioxide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U	0.05 U	0.05 U	0.04 UJ	0.06
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.379	0.332	0.35	0.45	0.43	0.34
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																																			
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	< 100	< 100	< 50	< 50	< 100	< 50	< 50	50 U	33 U	25 U	25 U	25 U	25 U	25 UR
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	**0.39 J**	**0.49 J**	**0.36 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	**4.0**	1.0 UR
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 UR	1.0 UR
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 UR	1.0 UR
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	3.3 U	5.0 U	5.0 U	5.0 U	5.0 UR	5.0 UR
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	**0.92 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	3.3 U	1.0 U	1.0 U	1.0 U	1.0 UR	1.0 UR
Trichloroethylene	5	µg/L	**8.3**	**8.0**	**6.8**	**7.0**	**7.4**	**11**	**18**	**18**	**49**	**150**	**130**	**86**	**13**	**110**	**100**	**130**	**160**	**87**	**64**	**70**	**62**	**100**	**96**	**62**	**110**	< 5	**170**	**110**	**180**	**140**	**140**	**120**	1.0 UR
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	6.7 U	2.0 U	2.0 U	2.0 U	2.0 U	**2.0**
Semivolatile Organic Compounds																																			
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.19	< 0.19	< 0.098	< 0.11	< 0.11	< 0.20	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 0.19	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.19	< 0.19	< 0.098	< 0.11	< 0.11	< 0.20	< 0.20	< 0.20	**0.024 J**	< 0.19	< 0.19	< 10	< 10	< 0.19	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U
Anthracene	10	µg/L	< 0.05	< 0.05	**0.078**	< 0.05	**0.08**	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.098	< 0.11	< 0.11	< 0.20	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 0.19	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	**0.059**	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.098	< 0.11	< 0.11	< 0.20	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	< 0.050	< 0.050	< 0.19	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.098	< 0.11	< 0.11	< 0.20	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	< 0.050	< 0.050	< 0.19	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.098	< 0.11	< 0.11	< 0.20	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.098	< 0.11	< 0.11	< 0.20	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 0.19	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.098	< 0.11	< 0.11	< 0.20	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 0.19	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.044	< 0.048	< 0.050	< 0.20	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	< 0.050	< 0.050	< 0.19	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U
Dibenz(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.098	< 0.11	< 0.11	< 0.20	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.098	< 0.11	< 0.11	< 0.20	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 0.19	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.098	< 0.11	< 0.11	< 0.20	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 0.19	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.098	< 0.11	< 0.11	< 0.20	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	< 0.050	< 0.050	< 0.19	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 500	< 0.50	< 0.50	**1.4**	<0.19	**0.52**	< 0.098	< 0.11	< 0.11	< 0.20	**1.8**	< 0.20	**0.43 B**	**0.048 J**	**0.075 J**	< 10	< 10	0.075 J	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.50	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.098	< 0.11	< 0.11 *	< 0.20	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 0.19	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U
Pyrene	1,000	µg/L	< 0.05	< 0.05	**0.058**	< 0.05	**0.051**	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.098	< 0.11	< 0.11	< 0.20	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 0.19	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U
Inorganic Compounds																																			
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.0200	< 0.020	< 0.02	< 0.02	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.010	<0.0500	<0.0500	< 0.010	< 0.05	< 0.05	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.0904**	**0.0944**	**0.0788**	**0.0841**	**0.0944**	**0.0969**	**0.0854**	**0.0847**	**0.084**	**0.0759**	**0.066**	**0.063**	**0.035**	**0.062**	**0.072**	**0.073**	**0.081**	**0.07**	**0.072**	**0.072**	**0.07**	**0.0783**	**0.0756**	**0.07**	**0.0609**	**0.0656**	**0.073**	0.2 U	**0.0589**	**0.069**	**0.07**	**0.072**	**0.06**	**0.05**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00028 JB**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.0100	< 0.0040	< 0.010	< 0.010	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**29.4**	**31.6**	**33**	**34**	**37**	**30**
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	**0.010**	< 0.010	**0.022**	< 0.0012	< 0.0012	**0.028**	**0.2**	< 0.010	< 0.010	**0.0015 J**	**0.0037 J**	< 0.0100	< 0.0100	0.0037 J	< 0.010	< 0.010	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	**0.0028 JB**	**0.0023 J**	< 0.020	< 0.020	< 0.020	**0.0028 J**	< 0.020	< 0.0100	< 0.0100	< 0.020	< 0.010	< 0.010	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	**0.0068 J**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.002	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0100	< 0.0100	< 0.0050	< 0.010	< 0.010	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**20.4**	**21.1**	**22**	**22**	**24**	**19**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	< 0.0023	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	**0.0021 J**	< 0.0200	< 0.0200	0.0021 J	< 0.02	< 0.02	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	1 U	1 U	1 U	1 U	**1**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.010	< 0.0200	< 0.0200	< 0.010	< 0.02	< 0.02	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**40.8**	**47**	**46**	**49**	**47**	**44**
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 0.0010	< 1.00	< 1	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	**0.0019 J**	**0.0023 J**	< 0.010	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0087	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	**0.016 J**	< 0.020	< 0.020	< 0.0200	< 0.0200	< 0.020	< 0.02	< 0.02	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.02**

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21
		Sample Date	1/25/2018	7/27/2017	1/25/2017	7/28/2016	1/20/2016	7/28/2015	1/12/2015	7/15/2014	1/9/2014	7/11/2013	1/9/2013	7/24/2012	1/18/2012	7/5/2011	1/20/2011	7/14/2010	1/7/2010	7/23/2009	1/15/2009	1/15/2009 DUP	7/21/2009	1/9/2008	1/9/2008 DUP	07/21/2008	7/11/2007	2/13/2007	7/12/2006	1/10/2006	7/22/2005	1/18/2005	7/13/2004	1/24/2004	7/20/2003	7/20/2003 DUP
		Unit	Post-ISCO																										Pre-ISCO						
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.50	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.098	< 0.11	< 0.11 *	< 0.20	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 0.19	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U
Pyrene	1,000	µg/L	< 0.05	< 0.05	**0.058**	< 0.05	**0.051**	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.098	< 0.11	< 0.11	< 0.20	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 0.19	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U
Inorganic Compounds																																			
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.0200	< 0.020	< 0.02	< 0.02	0.02 U	0.01 U	0.006

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22
		Sample Date	1/24/2018	7/26/2017	1/25/2017	7/27/2016	1/20/2016	7/28/2015	1/13/2015	7/14/2014	1/9/2014	7/8/2013	1/8/2013	7/23/2012	1/16/2012	7/5/2011	1/18/2010	7/15/2010	1/5/2010	7/21/2009	7/21/2009 DUP	1/13/2009	7/22/2008	1/8/2008	8/21/2007**	7/11/2007	2/15/2007	7/11/2006	1/15/2006	7/19/2005	7/13/2004	1/21/2004	7/15/2003	1/20/2003
		Unit	Post-ISCO																										Pre-ISCO				
Field Parameters																																	
Conductivity	*	mS/cm	0.219	0.244	0.213	0.245	0.195	233	0.196	0.174	0.177	0.214	0.237	0.289	0.354	0.307	2.43	0.297	0.254	0.301	0.301	1.06	0.433	0.490	0.38	0.338	0.413	0.378	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	1.41	0.41	1.83	0.53	1.43	0.6	2.08	0.64	2.67	0.63	1.69	0.5	1.33	1.10	6.43	0.65	2.4	3.74	3.74	6.1	0.43	1.50	0.24	0.77	3.31	3.58	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	102	133	2.7	92.6	-4.3	293.2	-22.3	17.8	87.0	68.2	84.8	75.3	72.8	124.3	108	147	-13.9	143.5	143.5	120.8	159.4	101.1	56.9	162.9	162	209.3	--	--	--	--	--	--	--
pH	*	SU	6.23	6.27	6.3	6.11	6.66	6.32	6.13	6.69	6.39	6.28	6.42	6.23	6.31	5.69	0.366	6.09	6.5	6.43	6.43	0.377	6.09	6.18	6.15	6.15	6.24	6.21	--	--	--	--	--	--	--
Temperature	*	Celsius	19.9	23.86	19.92	23.15	20.16	25.1	15.5	23	18.71	22.98	14.01	26.6	20.32	23.74	17.99	22.84	16.39	25.77	25.77	18.01	22.91	21.79	24.02	24.07	18.93	23.45	--	--	--	--	--	--	--
Turbidity	*	NTU	2.93	2.53	1.32	0.89	2.04	3.19	0.35	0.87	8.97	5.25	5.32	7.92	1.01	108	8.4	4.05	25.6	7.26	7.26	4.6	5.64	1.99	2.72	6.13	2.60	3.47	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																																	
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	59.7	69.2	117	117	40	52	780 B	680 B	710	--	610	410 *	690 *	600	750	< 1000	--	< 1000	--	140	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.196	0.643	0.25	0.17	0.19	0.1	0.12	0.073
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	< 0.100	< 0.100	<0.100	<0.100	< 0.10 HF	< 0.025 HF	< 0.025 HF	< 0.025 HF	0.082 JHF	--	< 0.10 HF	< 0.10 HF	< 0.10 HF	< 0.10 HF	< 0.10	< 0.10	--	0.33	< 0.1	0.1 U	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.005 U	0.0167	0.01 U	0.04	0.13	0.04 UJ	0.087	0.035
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.005 U	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	< 4	180	<4	<4	1.2	0.65	< 0.29	0.50 J	0.33	--	1.1	0.29	0.25	0.29	0.13	2.2	--	13	0.23	2,400	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	0.63	< 0.25	0.85	0.28	0.93	1.1	0.74	0.90	3.8	--	4.3	5.4	5.4	2.7	12	1.9	--	1.6	3.0	2.3	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	8.02 H	8.04 H	6.18 H	7.24 H	6.4	4.8	1.2	1.5	1.3	--	1.5	1.4	1.7	1.1	1.2	3.1	--	5.0	4.6	1.4	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	24	2.6	26	20	31	52	64	54	62	--	47	47	47	64	66	99	--	66	63	60	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2 U	--	--	--	--	--	--	--
Volatile Organic Compounds																																	
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	< 100	< 100	< 50	< 50	--	< 50	50 U	10 U	25 U	25 U	25 U	**44**	25 U	25 U	25 U
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	< 0.25	< 0.25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.12 J**	1.0 U
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60 *	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.36 J**
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	**3.2 J B ***	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	5.0 U	5.0 U	5.0 U	**0.51 J**	**0.28 J**	5.0 U
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds																																	
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.22	< 0.097	< 0.095	< 0.11	< 0.098	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.22	< 0.097	< 0.095	< 0.11	< 0.098	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.097	< 0.095	< 0.11	< 0.098	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.097	< 0.095	< 0.11	< 0.098	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	--	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.097	< 0.095	< 0.11	< 0.098	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	--	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.22	< 0.097	< 0.095	< 0.11	< 0.098	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	--	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.22	< 0.097	< 0.095	< 0.11	< 0.098	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.097	< 0.095	< 0.11	< 0.098	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.044	< 0.043	< 0.049	< 0.044	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	--	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.22	< 0.097	< 0.095	< 0.11	< 0.098	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	--	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.22	< 0.097	< 0.095	< 0.11	< 0.098	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.22	< 0.097	< 0.095	< 0.11	< 0.098	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.097	< 0.095	< 0.11	< 0.098	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	--	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.8**	< 0.50	**1.6**	< 0.50	< 0.22	< 0.097	< 0.095	< 0.11	**0.5**	< 0.19	< 0.19	< 0.19	< 0.19	0.10 J	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.50	< 0.050	**0.092**	< 0.050	< 0.22	< 0.097	< 0.095	< 0.11	< 0.098	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.097	< 0.095	< 0.11	< 0.098	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	10 UJ	10 U	10 U
Inorganic Compounds																																	
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.742**	**0.335**	0.2 U	0.2 U	0.2 U	**0.11 B**	**0.051 B**
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	--	< 0.02	< 0.02	0.02 U	0.01 U	0.006 U	0.006 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	<0.0500	--	< 0.05	< 0.05	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.0359**	**0.0337**	**0.0284**	**0.0404**	**0.0347**	**0.0349**	**0.0300**	< 0.0200	**0.0322**	**0.0322**	**0.031**	**0.038**	**0.050**	**0.049**	**0.052**	**0.044**	**0.042**	**0.039**	**0.051**	**0.042**	**0.05**	**0.0712**	--	**0.0767**	**0.0505**	**0.0563**	0.2 U	**0.0656**	**0.065**	**0.065**	**0.05**	**0.056**	**0.058**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	--	< 0.010	< 0.010	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	**0.0156**	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	--	< 0.005	< 0.005	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**22**	**26.8**	**27**	**27**	**21**	**22**	**22**
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.0012	< 0.0012	**0.0028 J**	**0.0027 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	--	< 0.010	< 0.010	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	--	< 0.010	< 0.010	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0017 B**	**0.0014 B**
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	**0.015**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	--	< 0.010	< 0.010	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0100	--	< 0.010	< 0.010	0.01 U	0.003 U	0.005 U	0.005 U	0.005 UJ	**0.0025 B**	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**25.7**	**32.4**	**32**	**33**	**27**	**28**	**30**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00091	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	--	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	**0.00013 B**	0.0002 U
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	**0.0023 J**	< 0.0023	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.0200	--	< 0.02	< 0.02	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 UJ	0.04 U	0.04 U
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	1 U	1 U	1 U	**0.5**	**0.24 B**	**0.24 B**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.0200	--	< 0.02	< 0.02	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	**0.0063 B**	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**31**	**45.5**	**41**	**40**	**47**	**40**	**42**
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.00025	< 0.00025	**0.00026 J**	**0.00028 J**	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	--	< 1.00	< 1	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 UWN	0.002 UWN
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.0024	< 0.0024	**0.0046 J**	**0.0038 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	--	**0.0140**	< 0.010	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	**0.144**	< 0.0200	< 0.0200	< 0.020	< 0.0087	< 0.0087	**0.010 J**	**0.014 J**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	--	**0.0353**	< 0.02	0.02 U	0.02 U	**0.117 J**	0.02 U	**0.021**	**0.03**	0.02 U	0.02 U

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-24	MW-24	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25
		Sample Date	7/15/2010	10/4/2006	7/22/2009	1/13/2009	7/16/2008	1/8/2008	7/10/2007	2/14/2007	7/13/2006	1/11/2006	7/19/2005	1/19/2005	7/14/2004	1/21/2004	7/17/2003	1/20/2003	7/17/2002	1/22/2002	7/13/2001	7/13/2001	1/23/2001
		Unit	Post-ISCO			Post-ISCO							Pre-ISCO										
Field Parameters																							
Conductivity	*	mS/cm	0.501	0.52	0.820	4.52	0.848	0.839	0.731	0.89	0.83	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	3.82	0.13	1.31	5.82	0.45	0.39	0.32	1.48	0.18	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	169	25.2	-274.1	130.7	6.9	42.1	69.3	54.3	51.8	--	--	--	--	--	--	--	--	--	--	--	--
pH	*	SU	6.36	6.34	5.84	0.437	5.71	5.79	5.64	5.71	5.80	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	23.48	24.05	22.61	17.94	22.26	22.04	22.45	18.14	22.14	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	8.79	0.47	1.64	1.7	2.79	0.95	0.00	0.73	3.16	--	--	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																							
Carbon Dioxide	*	µg/L	850 JB	--	1,700 *	1,100	1,700	< 1000	< 1000	--	1,,500	--	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	2.97	1.82	2.65	2.4	2.4	4.9	2.1	2.6	2.6	3.9	3.0	3.0	2.9
Iron, as Ferrous (Fe+2)	*	mg/L	< 0.10 HF	--	2.3 HF	0.62 HF	3.9	4.84	4.22	2.78	2.46	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	1.13	0.756	0.825	0.77	0.94	0.99	1.1	0.94	1.1	1.1	0.97	0.98	0.83
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	0.965	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	< 0.19	--	3.1	0.87	1.2	1.6	2.5	1.9	2	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	5.8	--	< 1.1	0.077	< 0.50	< 0.25	0.37	< 0.25	0.25 U	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	12	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	0.2 U	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	1.6	--	1.1	1.1	1.1	1.9	2.5	2.1	3	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	83	--	100	38	110	140	120	120	170	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	2 U	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																							
Acetone	4,000	µg/L	< 100	50	< 100	< 100	< 100	< 50	< 50	< 50 U	50 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	5	µg/L	< 5.0	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.15 J**	1.0 U	1.0 U	1.0 U	1.0 U	**0.14 J**
Carbon Disulfide	4,000	µg/L	< 5.0	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	< 5.0	5	< 5.0	< 5.0	**0.5 J**	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.66 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	µg/L	< 5.0	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.37 J**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	< 5.0	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	5	µg/L	< 5.0	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds																							
2-Methylnaphthalene	*	µg/L	--	--	--	--	**--**	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	**1,500**
Acenaphthene	2,000	µg/L	< 0.20	10	< 0.19	< 0.19	**0.062 J**	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	**140**
Acenaphthylene	10	µg/L	< 0.20	10	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	**0.28**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	**6.2 J**
Anthracene	10	µg/L	< 0.20	10	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	**23 J**
Benz(a)anthracene	0.1	µg/L	< 0.20	0.05	< 0.19	< 0.19	< 0.19	<0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Benzo(a)pyrene	0.2	µg/L	< 0.20	0.05	< 0.19	< 0.19	< 0.19	<0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.20	0.1	< 0.19	< 0.19	< 0.19	<0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Benzo(g,h,i)perylene	10	µg/L	< 0.20	10	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Benzo(k)fluoranthene	10	µg/L	< 0.20	10	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Chrysene	0.2	µg/L	< 0.20	0.05	< 0.19	< 0.19	< 0.19	<0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.20	0.1	< 0.19	< 0.19	< 0.19	<0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	0.001 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	**40 J**
Fluoranthene	1,000	µg/L	< 0.20	10	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	**13 J**
Fluorene	1,000	µg/L	< 0.20	10	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	**76**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.20	0.05	< 0.19	< 0.19	< 0.19	<0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Naphthalene	20	µg/L	< 0.20	10	< 0.19	**0.089 J**	**3.1**	< 10	< 10	< 10	10 U	**0.24**	**1.3**	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	**10,000 D**
Phenanthrene	10	µg/L	< 0.20	10	< 0.19	**0.031 J**	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	**67**
Pyrene	1,000	µg/L	< 0.20	10	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	**14 J**
Inorganic Compounds																							
Aluminum (fume or dust)	*	mg/L	--	--	--	--	**--**	--	--	--	--	0.2 U	**0.266**	0.2 U	0.2 U	**0.66**	0.2 U	0.2 U	**0.04 B**	0.2 U	**0.047 B**	**0.048 B**	**0.039 B**
Antimony	0.01	mg/L	< 0.020	0.02	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.020	0.05	< 0.020	< 0.010	< 0.010	<0.0500	< 0.05	< 0.05	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0036 B**	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.073**	**0.0821**	**0.18**	**0.16**	**0.21**	**0.166**	**0.214**	**0.224**	**0.198**	**0.231**	**0.238**	**0.23**	**0.26**	**0.26**	**0.29**	**0.32**	**0.33**	**0.35**	**0.32**	**0.33**	**0.31**
Beryllium	0.004	mg/L	< 0.0040	0.01	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.01	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	< 0.0050	0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	**40.1**	**45.5**	**38**	**44**	**47**	**51**	**50**	**56**	**56**	**53**	**53**	**47**
Chromium	0.1	mg/L	< 0.010	0.01	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.01	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	**0.0107**	0.01 U	**0.011**	**0.013**	**0.015**	0.01 U	**0.014**	**0.017**	**0.016**	**0.016**	**0.016**	**0.015**
Copper	1.3	mg/L	< 0.020	0.01	< 0.020	< 0.020	< 0.020	< 0.0100	< 0.010	< 0.01	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0016 B**	**0.0015 B**	0.02 U	0.02 U	0.02 U	0.02 U
Cyanide	0.2	mg/L	< 0.010	0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.010	0.01	< 0.010	< 0.0050	< 0.0050	< 0.0100	< 0.010	< 0.01	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	**36.1**	**40.1**	**34**	**40**	**42**	**52**	**45**	**50**	**51**	**48**	**48**	**43**
Mercury	0.002	mg/L	< 0.00020	0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 UJ	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	< 0.040	0.02	< 0.040	**0.0016 J**	**0.0120 J**	< 0.0200	< 0.02	< 0.02	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	**0.0063 B**	**0.0082 B**	**0.0074 B**	**0.0061 B**	**0.0068 B**	**0.0066 B**
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	5 U	**1.68**	**1.7**	**2**	**2.1**	**2.4**	**2.6**	**2.9**	**2.8**	**2.6**	**2.7**	**2.3**
Selenium	0.05	mg/L	< 0.020	0.02	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.02**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	**90.2**	**114**	**85**	**96**	**86**	**95**	**110**	**110**	**89**	**89**	**89**	**78**
Thallium	0.002	mg/L	< 0.0010	0.001	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 0.001	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 UWN	0.002 UWN	0.002 U	0.002 U	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	< 0.010	0.01	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.01	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	< 0.020	0.02	< 0.020	**0.012 J**	**0.0100 J**	< 0.0200	< 0.02	< 0.02	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.08**	0.02 U	**0.0064 B**	**0.0089 B**	**0.0092 B**	**0.01 B**	**0.0079 B**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-201	MW-201	MW-202DR	MW-202DR	MW-202DR	MW-202DR	MW-202DR	MW-202DR	MW-202DR	MW-202DR	MW-202DR	MW-202DR	MW-202DR	MW-202DR	MW-202DR	MW-202DR	MW-202DR	MW-202DR	MW-202DR	MW-202DR	MW-202DR	MW-202DR	MW-202DR	MW-202DR
		Sample Date	10/4/2006	7/9/2002	7/26/2017	1/25/2017	7/28/2016	1/20/2016	7/28/2015	1/13/2015	7/17/2014	1/7/2014	7/9/2013	1/8/2013	7/24/2012	1/16/2012	7/5/2011	01/11 DUP	1/17/2011	7/13/2010	1/5/2010	7/22/2009	01/13/2009	07/23/2008	1/9/2008	7/11/2007	2/15/2007
		Unit	Post-ISCO	Pre-ISCO	Post-ISCO																					
Field Parameters																										
Conductivity	*	mS/cm	670	--	0.535	0.578	0.555	0.511	580	0.524	0.518	0.420	0.549	0.557	0.53	0.642	0.641	2.26	2.26	0.582	0.716	0.947	23.1	1.163	1.091	1.021	1.542
Dissolved Oxygen (YSI)	*	mg/L	0.16	--	0.15	0.22	0.1	0.21	0.28	1.29	0.2	4.17	0.23	0.70	0.02	0.82	1.20	6.43	6.43	2.44	8.29	18.43	147.8	29.48	29.59	35.80	12.98
Oxidation Reduction Potential	*	mV	18.6	--	101.3	102.3	63.5	-86.4	285.3	-16.1	48.1	61.4	101.6	126.0	92.5	75.9	136.8	126.5	126.5	122.3	12.3	123.8	5.87	195.4	241.5	83.5	138.7
pH	*	SU	6.27	--	6.07	6.15	6.36	6.87	6.31	6.13	6.33	6.32	5.91	6.31	6.08	6.20	6.22	0.537	0.537	6.13	6.1	5.93	1.071	5.89	5.96	6.02	5.95
Temperature	*	Celsius	23.14	--	21.14	20.19	20.5	20.21	30.7	16.5	21.6	15.02	23.67	19.36	23.7	19.70	23.09	16.83	16.83	22.25	18.92	22.86	17.36	22.31	20.97	22.82	19.48
Turbidity	*	NTU	0.99	--	1.0	1.54	2.06	1.25	1.54	1.74	3.98	1.51	9.38	7.90	8.53	4.50	60.9	9.24	9.24	8.54	8.02	2.5	8.7	9.96	4.14	13.0	1.76
Monitored Natural Attenuation Parameters																											
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	--	196	234	324	219	100	120	1,300 B	1,500 B	1,000 *	1,100 *	1,300	1,500	2000 *	1800	2100	< 1.0	< 1.0	--
Iron	*	mg/L	--	**0.28**	--	--	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	--	--	--	--	**--**	--	--	--	--	--	--	--
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	--	< 0.100	< 0.100	<0.100	<0.100	< 0.10 HF	< 0.10 HF	< 0.025 HF	< 0.025 HF	< 0.025 HF	< 0.025 HF	< 0.10 HF	< 0.10 HF	< 0.10 HF	< 0.10 HF	< 0.10	< 0.10	< 0.10	< 0.1
Manganese, Total	*	mg/L	--	**1.5**	--	--	--	--	--	--	**--**	**--**	**--**	**--**	**--**	--	--	--	--	**--**	--	--	--	--	--	--	--
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	--	< 4	< 4	<4	<4	< 0.58	76	< 0.29	0.36 J	0.20	< 0.19	0.22	0.33	0.27	0.37	0.21 J	0.39	4.2	4.5
Nitrate	*	mg/L	--	--	--	--	--	--	--	0.31	< 0.25	<0.25	0.25	0.82	0.82	0.24 J	0.25	0.84 J	0.90 J	0.63 JH	< 1.1	< 1.1	0.58	3.1	0.74	< 0.25	< 0.25
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	--	8.27 H	5.25 H	7.58 H	6.92 H	6.3	6.3	1.4	1.6	1.5	1.3	1.4	1.7	1300	1600	1900	31	32	36
Sulfate	*	mg/L	--	--	--	--	--	--	--	56	61	64	67	68	72	75	80	79	78	76	98	130	180	230	340	260	340
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																											
Acetone	4,000	µg/L	< 50	< 25	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	< 100	< 50	< 50	< 50
Benzene	5	µg/L	< 5	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	< 0.25	< 0.25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Carbon Disulfide	4,000	µg/L	< 5	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Ethylbenzene	700	µg/L	< 5	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Methylene Chloride	5	µg/L	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Toluene	1,000	µg/L	< 5	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Trichloroethylene	5	µg/L	< 5	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Xylenes, total	2,000	µg/L	< 5	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Semivolatile Organic Compounds																											
2-Methylnaphthalene	*	µg/L	--	< 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**--**	--		--
Acenaphthene	2,000	µg/L	< 10	< 10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.19	< 0.19	< 0.097	< 0.095	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Acenaphthylene	10	µg/L	< 10	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.19	< 0.19	< 0.097	< 0.095	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Anthracene	10	µg/L	< 10	< 10	**0.096**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.097	< 0.095	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 0.05	< 10	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.097	< 0.095	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 10	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.097	< 0.095	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 10	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.097	< 0.095	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	µg/L	< 10	< 10	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.097	< 0.095	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 10	< 10	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	**0.060**	< 0.050	< 0.19	< 0.19	< 0.097	< 0.095	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Chrysene	0.2	µg/L	< 0.05	< 10	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.044	< 0.043	< 0.048	< 0.048	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 10	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.097	< 0.095	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.1	< 0.1	< 0.1
Dibenzofuran	1	µg/L	--	< 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	1,000	µg/L	< 10	< 10	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.097	< 0.095	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Fluorene	1,000	µg/L	< 10	< 10	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.097	< 0.095	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 10	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	**0.065**	< 0.050	< 0.19	< 0.19	< 0.097	< 0.095	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05
Naphthalene	20	µg/L	< 10	< 10	< 0.5	**3.9**	< 0.5	< 0.5	< 0.5	**2.7**	< 0.50	< 0.50	< 0.50	< 0.19	< 0.19	**1.2**	< 0.095	< 1.0	**0.24**	< 0.19	< 0.19	< 0.19	0.028 J	< 0.19	< 10	< 10	< 10
Phenanthrene	10	µg/L	< 10	< 10	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.50	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.097	< 0.095	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Pyrene	1,000	µg/L	< 10	< 10	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.097	< 0.095	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Inorganic Compounds																											
Aluminum (fume or dust)	*	mg/L	--	**0.042 J**	--	--	--	--	--	**--**	**--**	--	**--**	**--**	**--**	--	--	**--**	**--**	--	--	--	--	**--**	--	--	--
Antimony	0.01	mg/L	< 0.02	< 0.02	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02
Arsenic	0.05	mg/L	< 0.05	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	<0.0500	< 0.05	< 0.05
Barium	2	mg/L	**0.0647**	**0.084**	**0.0761**	**0.064**	**0.0722**	**0.069**	**0.0619**	**0.0536**	**0.0549**	**0.0541**	**0.0519**	**0.050**	**0.055**	**0.062**	**0.062**	**0.061**	**0.059**	**0.054**	**0.05**	**0.06**	**0.057**	**0.069**	**0.0737**	**0.0753**	**0.104**
Beryllium	0.004	mg/L	< 0.01	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010
Cadmium	0.005	mg/L	< 0.005	< 0.0011	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005
Calcium metal	*	mg/L	--	**49**	--	--	--	--	--	**--**	**--**	--	**--**	**--**	**--**	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0049 J**	**0.0041 J**	**0.0038 J**	**0.0037 J**	**0.0015 J**	< 0.010	< 0.010	0.0030 J	0.0050 J	< 0.0100	< 0.010	< 0.010
Cobalt	*	mg/L	--	**0.0099 J**	--	--	--	--	--	**--**	**--**	--	**--**	**--**	**--**	--	**--**	--	--	--	--	--	--	--	--	--	--
Copper	1.3	mg/L	< 0.01	< 0.0016	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	**0.0058 J**	< 0.0019	< 0.0019	< 0.0019	**0.0030 J**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	< 0.010	< 0.010
Cyanide	0.2	mg/L	< 0.01	**0.12**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	**0.016**	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	0.0066 J	< 0.010	< 0.010	< 0.010
Lead	0.015	mg/L	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0100	< 0.010	< 0.010
Magnesium	*	mg/L	--	**39**	--	--	--	--	--	**--**	**--**	**--**	**--**	**--**	**--**	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	**0.0049 J**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	**0.013 J**	**0.0031 J**	< 0.0023	< 0.0023	**0.0071 J**	< 0.040	< 0.040	0.0017 J	0.0039 J	< 0.0200	< 0.02	< 0.02
Potassium	*	mg/L	--	**1.1**	--	--	--	--	--	**--**	**--**	--	**--**	**--**	**--**	--	**--**	--	--	--	--	--	--	--	--	--	--
Selenium	0.05	mg/L	< 0.02	< 0.01	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	**0.0079 J**	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	0.0079 J	0.0082 J	< 0.0200	< 0.02	< 0.02
Sodium	*	mg/L	--	**100**	--	--	--	--	--	**--**	**--**	--	**--**	**--**	**--**	--	**--**	--	--	--	--	--	--	--	--	--	--
Thallium	0.002	mg/L	< 0.001	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0027 J**	**0.0049 J**	**0.0028 J**	< 0.0024	< 0.010	< 0.010	< 0.010	0.0032 J	0.0056 J	< 0.0100	< 0.010	< 0.010
Zinc	2	mg/L	< 0.02	**0.018 J**	< 0.02	< 0.02	< 0.02	**0.0231**	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	**0.038**	< 0.0087	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203
		Sample Date	1/25/2018	7/26/2017	1/25/2017	7/28/2016	1/20/2016	7/29/2015	1/14/2015	7/15/2014	1/14/2014	7/10/2013	1/10/2013	7/24/2012	1/23/2012	7/5/2011	1/18/2011	7/13/2010	1/12/2010	7/22/2009	1/13/2009	7/23/2008	1/10/2008	8/21/2007**	7/12/2007	2/14/2007	7/13/2006	1/16/2006	7/22/2005	7/16/2004	1/24/2004	7/16/2003	7/17/2002	1/21/2002	1/17/2001
		Unit	Post-ISCO																								Pre-ISCO						
Field Parameters																																		
Conductivity	*	mS/cm	0.455	0.445	0.483	0.46	0.443	469.1	0.224	0.454	0.339	0.475	0.343	0.570	0.505	0.550	1.55	0.475	0.564	0.882	16.94	0.871	0.517	0.759	0.818	0.94	0.863	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	2.97	0.15	0.3	0.07	0.48	0.22	1.72	0.57	0.58	0.41	5.39	0.51	3.42	1.67	6.20	1.98	15.27	19.69	5.68	0.97	3.20	3.9	10.34	11.99	21.49	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	185.4	93.6	118.1	58.8	-91.3	82	69.3	-99.8	144.9	-80.2	87.9	81.6	13.9	102.0	7.0	111.1	35.7	189	377.4	140.1	59.2	161.3	152.6	137.2	149	--	--	--	--	--	--	--	--
pH	*	SU	6.38	6.17	6.19	6.22	6.84	6.3	6.28	6.23	6.64	6.07	6.43	5.45	6.20	6.18	0.58	6.23	7.07	5.98	0.799	5.82	6.10	5.77	5.77	5.93	5.66	--	--	--	--	--	--	--	--
Temperature	*	Celsius	18.04	21.41	20.06	20.81	19.93	24.4	15.6	22.92	19.11	20.21	18.30	26.92	16.54	21.85	19.41	23.63	16.1	23.18	19.61	22.18	20.90	23.34	21.77	19.01	21.35	--	--	--	--	--	--	--	--
Turbidity	*	NTU	1.67	1.76	0.36	0.62	0.53	4.23	1.70	5.97	0.77	0.54	7.22	0.98	1.96	4.75	2.19	6.67	7.18	3.01	3.2	1.54	0.58	1.12	1.48	1.09	0.58	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																																		
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	81.2	147	219	146	110	92	2,000 B	1,200 B	1,300	960	1,500	2,300 *	1,700	2,300	< 1000	--	< 1000	--	2,900	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.361	0.903	0.068	0.087	0.09	0.13	0.039 B	0.089
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	< 0.100	< 0.100	<0.100	0.802	0.28 HF	< 0.10 HF	0.45 HF	< 0.025 HF	0.73 HF	0.098 JHF	< 0.10 HF	< 0.10 HF	< 0.10 HF	< 0.10	< 0.10	--	< 0.10	< 0.1	0.1 U	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.39	1.52	1.55	0.57	0.54	0.54	1.7	1.7	1.5
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.15	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	< 4	270	<4	9	5.8	4.2	10	0.57 J	19	0.47	2.1	0.31	1.1	0.54	2.6	--	2.9	4.5	5.8	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	0.51	< 0.25	0.32	0.49	< 0.25	< 0.25	0.10 J	0.30	0.81 J	5.6	3	4.7	2.3	5.7	2.9	--	2.9	3	3.1	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.9	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.45	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	9.08 H	7.17 H	6.34 H	7.55 H	6.9	6.9	1.2	2.0	1.4	1.2	1.8	1.6	1.5	1.0	2.0	--	12	11	18	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	13	58	59	62	80	61	69	67	67	57	86	120	120	90	140	--	95	96	120	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2 U	--	--	--	--	--	--	--	--
Volatile Organic Compounds																																		
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 50	< 5.0	< 5.0	< 100	< 100	< 100	< 100	< 100	< 50	< 50	--	< 50	50 U	10 U	**420**	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	< 0.25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	**2.7**	**62**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.19 J**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60 *	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	**1.6**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	**3.3 J B ***	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.49 JB**
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	**44**	1.0 U	**1.1**	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	2.0 U	**15**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds																																		
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0 U	**0.44**	2.0 U	**0.24**	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	<0.19	< 0.22	< 0.10	< 0.12	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.19	< 0.22	< 0.10	< 0.12	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	< 0.22	< 0.10	< 0.12	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	< 0.22	< 0.10	< 0.12	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	--	< 0.05	< 0.05	0.05 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	**0.073**	< 0.05	< 0.05	< 0.05	**0.075**	< 0.050	< 0.050	< 0.050	<0.19	< 0.22	< 0.10	< 0.12	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	--	< 0.05	< 0.05	0.05 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.19	< 0.22	< 0.10	< 0.12	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.1	--	< 0.1	< 0.1	0.1 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	**0.16**	< 0.1	< 0.1	< 0.1	**0.12**	< 0.10	< 0.10	< 0.10	<0.19	< 0.22	< 0.10	< 0.12	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	**0.092**	< 0.05	< 0.05	< 0.05	**0.068**	< 0.050	< 0.050	< 0.050	<0.19	< 0.22	< 0.10	< 0.12	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.05	< 0.05	**0.055**	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	< 0.22	< 0.046	< 0.055	< 0.049	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	--	< 0.05	< 0.05	0.05 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	**0.13**	< 0.1	< 0.1	< 0.1	**0.13**	< 0.10	< 0.10	< 0.10	<0.19	< 0.22	< 0.10	< 0.12	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.1	--	< 0.1	< 0.1	0.1 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0 U	2.0 U	2.0 U	2.0 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.19	< 0.22	< 0.10	< 0.12	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.19	< 0.22	< 0.10	< 0.12	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	**0.17**	< 0.05	< 0.05	< 0.05	**0.13**	< 0.050	< 0.050	< 0.050	<0.19	< 0.22	< 0.10	< 0.12	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	--	< 0.05	< 0.05	0.05 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.050	< 0.50	< 0.50	< 0.50	<0.19	**2.5**	**0.58**	**0.52**	< 0.11	< 0.19	**0.21**	< 0.19	< 0.19	**0.09 J**	< 10	--	< 10	< 10	10 U	**1.1**	**6.7**	2.0 U	**1.4**	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	< 0.22	< 0.10	< 0.12	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	< 0.05	< 0.05	**0.051**	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	< 0.22	< 0.10	< 0.12	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	2.0 U	2.0 U	2.0 U	2.0 U	10 UJ	10 U	10 U	10 U
Inorganic Compounds																																		
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.631**	**4.81**	0.2 U	0.2 U	0.2 U	**0.032 B**	0.2 U	0.2 U	
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	--	< 0.02	< 0.02	0.02 U	0.01 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0060 B**
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	**0.0046 J**	**0.0047 J**	**0.0047 J**	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	<0.0500	--	< 0.05	< 0.05	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.0755**	**0.0528**	**0.0504**	**0.0471**	**0.0485**	**0.0545**	**0.0758**	**0.0499**	**0.0602**	**0.0757**	**0.13**	**0.068**	**0.047**	**0.059**	**0.078**	**0.066**	**0.066**	**0.072**	**0.056**	**0.083**	**0.0542**	--	**0.0516**	**0.0311**	**0.0415**	0.2 U	**0.0139**	**0.14**	**0.14**	**0.14**	**0.18**	**0.17**	**0.17**	
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00025 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	--	< 0.010	< 0.010	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	**0.0019 B**
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	**0.0045 J**	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	--	< 0.005	< 0.005	0.005 U	0.002 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**40.5**	**41.7**	**50**	**52**	**48**	**63**	**59**	**56**
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0040 J**	**0.013**	**0.0079 J**	**0.0042 J**	< 0.010	< 0.010	0.013	**0.0055 J**	< 0.0100	--	**0.0117**	< 0.010	0.01 U	0.005 U	**0.101**	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.0626**	**0.0917**	0.01 U	0.01 U	0.01 UJ	**0.015**	**0.014**	**0.013**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	< 0.0019	**0.0022 J**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	--	< 0.010	< 0.010	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0016 B**	0.02 U	0.02 U
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	**0.0090 J**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	--	< 0.010	< 0.010	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	**0.0029 J**	< 0.0050	< 0.0100	--	< 0.010	< 0.010	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	**0.0016 B**
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**34.3**	**34.2**	**43**	**43**	**43**	**53**	**51**	**49**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	--	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	**0.0070 J**	**0.0036 J**	**0.0068 J**	**0.0092 J**	< 0.040	< 0.040	**0.0021 J**	**0.0071 J**	< 0.0200	--	< 0.02	< 0.02	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 UJ	**0.0066 B**	**0.0054 B**	**0.0063 B**
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	**5.34**	**1.3**	**1.2**	**1.3**	**1.6**	**1.5**	**1.5**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	**0.0099 J**	< 0.0064	< 0.020	< 0.020	< 0.020	**0.0066 J**	**0.0097 J**	< 0.0200	--	< 0.02	< 0.02	0.02 U	**0.0097**	**0.019**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**81.8**	**75.5**	**150**	**140**	**130**	**160**	**130**	**130**
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	--	< 1.00	< 1	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.002 UWN	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	**0.0228**	**0.015**	**0.0112**	**0.0157**	**0.0196**	**0.0176**	**0.0607**	**0.0135**	**0.0374**	**0.0155**	**0.016**	< 0.010	**0.0075 J**	**0.019**	**0.012**	**0.019**	**0.028**	**0.023**	**0.017**	**0.0110 J**	**0.0194**	--	**0.0163**	**0.0246**	**0.0319**	**0.0601**	0.484	0.01 U	0.01 U	0.01 UJ	**0.0052 B**	**0.0034 B**	**0.0034 B**	
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	**0.0232**	< 0.02	**0.0312**	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	**0.016 J**	**0.019 J**	**0.029**	**0.011 J**	< 0.020	< 0.020	**0.011 J**	0.011	< 0.0200	--	< 0.02	< 0.02	0.02 U	**0.0475**	**0.079**	0.02 U	0.02 U	**0.03**	**0.015 B**	**0.017 B**	**0.015 B**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205	MW-205
		Sample Date	7/26/2017	1/25/2017	7/27/2016	1/20/2016	7/16/2014	1/9/2014	1/10/2013	7/26/2012	1/25/2012	7/7/2011	1/20/2011	7/13/2010	1/12/2010	7/29/2009	1/21/2009	7/23/2008	1/10/2008	1/17/2006	7/22/2005	7/16/2004	1/24/2004	7/18/2003	4/4/2002	1/22/2002	1/22/2002 DUP	7/17/2001	7/17/2001 DUP	1/23/2001
		Unit	Post-ISCO																		Pre-ISCO							
Field Parameters																													
Conductivity	*	mS/cm	0.617	0.626	0.667	0.532	0.568	0.455	0.464	0.202	0.417	0.463	0.85	0.41	0.486	0.548	0.33	0.577	0.497	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.08	0.08	0.13	0.22	0.23	0.39	0.36	0.25	1.04	0.28	5.44	0.23	1.37	1.18	5.96	0.61	1.03	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	-59.6	-73	-71.7	-96.6	-107.1	-103.4	18.1	-29.2	-57.8	-59.6	57.3	-109.7	8.15	-36.8	-27	-29.8	-60.1	--	--	--	--	--	--	--	--	--	--	--
pH	*	SU	6.0	6.03	6.05	6.2	6.43	6.25	6.32	6.21	6.27	6.60	0.382	5.95	6.15	6.43	0.426	6.08	5.79	--	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	24.31	20.46	23.8	19.39	22.24	18.74	21.13	21.81	20.56	24.56	17.03	21.64	15.94	23.08	19.82	26.48	22.91	--	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	5.32	2.79	6.38	7.64	11.1	7.53	6.42	10.5	9.26	26.6	11.4	3.1	9.3	8	4.2	8.76	2.29	--	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																													
Carbon Dioxide	*	µg/L	--	--	--	--	342	332	140	140	2,800 B	380 B	2,300	2,600	1,900	2,100 *	2,300	3,000	< 1000	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	54.8	34.2	0.34	0.46	0.19	--	1.1	1.2	0.36	0.52	0.49
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	3.78	0.949	0.35 HF	0.29 HF	1.7 HF	0.045 J HF	1.9 HF	2.0 HF	0.33 HF	< 0.10 HF	0.50 HF	0.19	5.87	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.46	3.8	1.7	1.7	1.6	--	1.5	1.6	1.4	1.4	1.5
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	180	290	380	2000	230	260	250	130	520	310	250	300	490	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	< 0.25	<0.25	< 0.25	< 0.25	< 0.25	< 0.075	< 0.36	<1.1	< 1.1	< 1.1	< 0.050	0.20	< 0.25	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	6 H	6.82 H	5.1	2.4	1.6	1.3	1.2	1.4	1.3	2.1	1.3	0.99	1.9	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	79	7.8	< 5.0	< 5.0	3.2 J	< 2.6	6.5	23	16	24	26	41	86	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																														
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	<50	< 100	< 100	**5.7 J**	**21 J**	< 500	< 1000	< 10000	< 2000	< 2000	< 5000	**150**	**2,000**	**5,400**	< 2,500	< 2,500	< 1,300	--	< 1,200	< 1,200	< 620	< 1,200	< 1,200
Benzene	5	µg/L	**390**	**690**	**730**	**1000**	**1,100**	**3,100**	**4,300 D**	**3,300 D**	**6,600**	**12,000**	**8,900**	**5,600**	**12,000**	**7,500 D**	**2,700**	**5,500**	**8,300**	**6,500**	**5,500**	**4,100**	**3,500**	**3,300**	**6,400**	**6,400**	**6,000**	**5,500 D**	**6,500**	**7,700**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 60	< 500	< 500	< 100	< 100	< 250	< 5.0	< 200	< 200	< 100	< 100	< 50	--	< 50	< 50	< 50	< 50	< 50
Ethylbenzene	700	µg/L	**130**	**110**	**72**	**95**	**170**	**360**	**400 D**	**490 D**	**660**	**510 J**	**490 J**	**220**	**750**	**440**	< 100	200 J	**160**	< 200	**130**	**180**	**260**	**240**	**280**	**350**	**360**	**450**	**610**	**470**
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 100	< 50	< 500	< 100	260	< 250	< 5.0	< 200	< 100	< 500	< 500	< 250	< 250	< 250	< 250	< 0.12	< 250	**55 JB**
Toluene	1,000	µg/L	**35**	**130**	**90**	**120**	**77**	**99**	**940 D**	**1,100 D**	**1,500**	**4,300**	**1,400**	**340**	**2,200**	**1,300**	**650**	**1,600**	**2,800**	**5,100**	**4,300**	**2,500**	**2,400**	**2,400**	**5,800**	**6,700**	**6,400**	**6,700 D**	**8,400**	**8,100**
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 13	< 50	< 500	< 100	< 100	< 250	< 5.0	< 200	< 200	< 100	< 100	< 50	< 50	< 50	< 50	< 0.025	< 50	< 50
Xylenes, total	2,000	µg/L	**93**	**110**	**100**	**166**	**220**	**250**	**500 D**	**640 D**	**640**	**1,000**	**680**	**520**	**1,100**	**940**	**790**	**970**	**1,100**	**1,600**	**1,100**	**1,800**	**2,200**	**2,300**	--	**3,400**	**3,500**	**4,600**	**6,100**	**4,600**
Semivolatile Organic Compounds																														
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**1,200**	**2,500**	**760**	**1,200**	**820**	--	**1,100**	**1,200**	**1,400 D**	**1,200 D**	**1,200**
Acenaphthene	2,000	µg/L	< 50	**9.1**	**8.0**	< 50	**12**	**14**	<22	**11**	**11**	**2.6**	**6.8**	**5.2**	**3.1**	< 10 *	< 38	**2.5 J**	< 10	< 27	< 30	< 200	< 160	**20**	**42 J**	**23 J**	**23 J**	**27 J**	**26 J**	**26 J**
Acenaphthylene	10	µg/L	**7.5**	**6.6**	**5.0**	**5.8**	**7.0**	**6.7**	<22	**6.9**	**14**	**2.6**	**18**	**11**	**11**	**11**	**9.5 J**	**6.3**	**22**	**65**	**490**	**200**	**190**	**300**	**580**	**350**	**400**	**460**	**430**	**380**
Anthracene	10	µg/L	**3.0**	**3.6**	**2.9**	**3.1**	**4.3**	**3.7**	<22	< 3.9	**4.3**	**2.9**	**4.7**	**3.6**	**4.2**	< 10	< 38	**3.2 J**	**10**	< 27	**88**	< 200	**15**	< 10	**38 J**	**10 J**	**10 J**	**15 J**	**18 J**	**15 J**
Benz(a)anthracene	0.1	µg/L	**0.88**	**0.92**	**0.42**	**0.55**	**2.5**	**1.3**	<22	< 3.9	**1.5 J**	**2.1**	**1.7 J**	**1.2 J**	**3.4**	< 10	< 38	**0.52 J**	**0.78**	< 27	**86**	< 200	**3.8**	< 10	**20 J**	< 200	< 100	**6.1 J**	**9.3 J**	**3.2 J**
Benzo(a)pyrene	0.2	µg/L	**0.28**	**0.33**	**0.064**	**0.16**	**1.8**	**0.73**	<22	< 3.9	< 1.1	**1.4**	**1.1 J**	< 1.9	**2.9**	< 10	< 38	< 3.9	**0.16**	< 27	**55**	< 200	**4.2**	< 10	**14 J**	< 200	< 100	**3.3 J**	**5.6 J**	< 50
Benzo(b)fluoranthene	0.2	µg/L	**0.32**	**0.27**	**0.1**	**0.19**	**1.7**	**0.59**	<22	< 3.9	< 1.1 *	**0.86**	< 1.0	< 1.9 *	**2**	< 10	< 38	< 3.9	**0.20**	< 27	**49**	< 200	**4**	< 10	**10 J**	< 200	< 100	**2.7 J**	**0.43 J**	< 50
Benzo(g,h,i)perylene	10	µg/L	**0.14**	**0.14**	< 0.1	**0.11**	**0.76**	**0.27**	<22	< 3.9	< 1.1	**0.41**	< 1.0	< 1.9	<2.0	< 10	< 38	< 3.9	< 10	< 27	**34**	< 200	**1.5**	< 10	< 100	< 200	< 100	< 50	< 50	< 50
Benzo(k)fluoranthene	10	µg/L	**0.11**	**0.13**	< 0.05	**0.066**	**0.59**	**0.2**	<22	< 3.9	< 1.1	**1.0**	< 1.0	< 1.9	<2.0	< 10	< 38	< 3.9	< 10	< 27	**32**	< 200	< 0.2	< 10	< 100	< 200	< 100	< 50	< 50	< 50
Chrysene	0.2	µg/L	**0.59**	**0.69**	**0.26**	**0.29**	**2**	**0.9**	<22	< 3.9	**1.4 J**	**1.7**	**1.6 J**	**0.97 J**	**2.6**	< 10	< 38	< 3.9	**0.62**	< 27	**85**	< 200	**3.4**	< 10	**19 J**	< 200	< 100	**5.8 J**	**9.1 J**	**3.3 J**
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	**0.19**	<0.10	<22	< 3.9	< 1.1	**0.18 J**	< 1.0	< 1.9	< 2.0	< 10	< 38	< 3.9	< 0.10	< 27	< 30	< 200	< 0.2	< 10	< 100	< 200	< 100	< 50	< 50	< 50
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 130	**50**	< 200	< 160	**12**	--	**14 J**	**16 J**	**17 J**	**17 J**	**18 J**
Fluoranthene	1,000	µg/L	**4.4**	**4.8**	**3.1**	**3.4**	**5.6**	**4.3**	<22	< 3.9	**6.2**	**3.5**	**6.8**	**4.4**	**8.5**	< 10	**3.7 J**	**3.8 J**	< 10	**98**	**200**	< 200	**13**	< 10	**43 J**	< 200	**5.1 J**	**14 J**	**20 J**	**11 J**
Fluorene	1,000	µg/L	**14**	**18**	**16**	**16**	**31**	**38**	**33**	**47**	**68**	**38**	**75**	**46**	**29**	**48**	**21 J**	10	**26**	**97**	**260**	< 200	< 160	**51**	**120**	**58 J**	**61 J**	**76**	**76**	**90**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	**0.11**	**0.12**	< 0.05	**0.1**	**0.65**	**0.24**	<22	< 3.9	< 1.1	**0.32**	< 1.0	< 1.9	< 2.0	< 10	< 38	< 3.9	0.11	< 27	**44**	< 200	**1.2**	< 10	< 100	< 200	< 100	< 50	< 50	< 50
Naphthalene	20	µg/L	**400**	**210**	**190**	**66**	**390**	**1,300**	**1,400 D**	**2,300**	**600 D**	**0.53**	**3,800**	**1,300**	**1,400**	**1,900 B**	**2,200**	**2,000**	**2,900**	**5,500**	**17,000**	**5,700**	**8,800**	**12,000**	**7,700 D**	**13,000 D**	**15,000 D**	**17,000 D**	**14,000 D**	**12,000 D**
Phenanthrene	10	µg/L	**26**	**24**	**20**	**18**	**38**	**41**	**30**	**40**	**56**	**17**	**46 ***	**35**	**22**	**17**	**13 J**	**28**	**64**	**300**	**580**	< 200	< 160	**50**	**210**	**69 J**	**71 J**	**91**	**110**	**90**
Pyrene	1,000	µg/L	**5.5**	**6.1**	**3.6**	**4.0**	**7.2**	**5**	<22	**4.6**	**7.4**	**7.7**	**8.8**	6	**10**	< 10	**5.6 J**	**3.9**	< 10	**120**	**220**	< 200	**14**	< 10	**69 J**	< 200	**6.9 J**	**20 J**	**31 J**	**14 J**
Inorganic Compounds																														
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**29.6**	**115**	< 0.2	< 0.2	< 0.2	--	**0.041 B**	**0.062 B**	**0.21 N**	**0.43 N**	**0.21**
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.01	< 0.06	< 0.02	< 0.02	< 0.02	--	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	**0.0059 J**	< 0.020	< 0.020	**0.0063 J**	< 0.010	<0.0500	**0.0195**	**0.0266**	< 0.01	< 0.01	< 0.01	--	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Barium	2	mg/L	**0.0128**	**0.00772**	**0.00877**	< 0.02	< 0.0200	<0.0200	< 0.010	< 0.010	**0.0078 J**	**0.020**	**0.013**	**0.012**	< 0.010	< 0.010	**0.0055 J**	**0.0097 J**	< 0.0200	< 0.2	**0.075**	**0.14**	**0.14**	**0.13**	--	**0.11**	**0.11**	**0.12**	**0.12**	**0.13**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00042 JB**	**0.00027 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	**0.0074**	**0.0233**	< 0.004	< 0.004	< 0.004	--	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**43**	**65.7**	**63**	**65**	**60**	--	**53**	**54**	**51**	**52**	**54**
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	**0.0133**	< 0.0100	< 0.010	< 0.010	**0.0014 J**	**0.0035 J**	**0.0035 J**	**0.0043 J**	< 0.010	< 0.010	**0.0033 JB**	**0.0027 J**	< 0.0100	**0.178**	**0.494**	< 0.01	< 0.01	< 0.01	--	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.314**	**0.607**	< 0.01	< 0.01	< 0.01	--	**0.0054 B**	**0.0061 B**	**0.0047 B**	**0.0054 B**	**0.0060 B**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	**0.0033 J**	**0.0050 JB**	**0.0024 J**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	**0.0365**	**0.212**	< 0.02	< 0.02	< 0.02	--	< 0.02	< 0.02	< 0.02	< 0.02	**0.0013 B**
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	**0.012**	**0.012**	< 0.010	<0.010	**0.012**	**0.012**	**0.014**	**0.020**	**0.013**	**0.025**	**0.033**	**0.03**	**0.0084 J**	**0.023**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.015	--	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	**0.0053 J**	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0100	< 0.003	**0.0293**	< 0.005	< 0.005	< 0.005	--	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**38.9**	**58.2**	**54**	**55**	**58**	--	**47**	**49**	**46**	**46**	**49**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	--	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.040	< 0.040	**0.0030 J**	**0.0059 J**	**0.0060 J**	**0.0096 J**	< 0.040	< 0.040	**0.029 J**	**0.03 J**	< 0.0200	**0.196**	**0.385**	< 0.04	< 0.04	< 0.04	--	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**8.95**	**14**	**1.7**	**1.5**	**1.2**	--	**1.3**	**1.3**	**1.3**	**1.3**	**1.3**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.0200	**0.0102**	**0.0227**	< 0.01	< 0.01	< 0.01	--	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**21.6**	**26.9**	**97**	**87**	**79**	--	**55**	**56**	**67**	**68**	**66**
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 0.001	< 0.001	< 0.002	< 0.001	< 0.002	--	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	**0.235**	**0.75**	< 0.01	< 0.01	< 0.01	--	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	**0.0341**	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0087	**0.03**	**0.03**	**0.022**	< 0.020	< 0.020	**0.022**	< 0.020	< 0.0200	**0.38**	**0.992**	< 0.02	< 0.02	**0.05**	--	**0.009 B**	**0.011 B**	**0.01 B**	**0.0076 B**	**0.02 B**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206
		Sample Date	1/24/2018	7/25/2017	1/24/2017	7/26/2016	1/19/2016	7/30/2015	1/14/2015	7/16/2014	1/14/2014	7/10/2013	1/10/2013	7/26/2012	1/23/2012	7/6/2011	1/19/2011	7/14/2010	1/6/2010	7/28/2009	7/28/2009 DUP	1/15/2009	7/22/2008	1/8/2008	8/21/2007**	8/21/2007 DUP	7/11/2007	2/15/2007	7/13/2006	1/14/2006	7/21/2005	1/19/2005	7/14/2004	1/24/2004	1/17/2003	7/10/2002	4/3/2002	1/21/2002	7/12/2001	1/19/2001
		Unit	Post-ISCO																											Pre-ISCO								
Field Parameters																																						
Conductivity	*	mS/cm	0.683	0.593	0.545	0.579	0.508	680	0.711	0.66	0.637	0.583	0.536	5.810	0.585	0.607	14.56	0.696	0.664	0.755	0.755	5.16	0.602	0.568	0.342	--	0.497	0.456	0.377	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.99	0.19	1.38	0.29	2.06	1.93	7.73	3.29	3.82	1.91	3.17	2.48	9.59	5.80	9.05	4.27	21.57	9.57	9.57	6.5	2.67	3.05	5.44	--	5.42	0.99	0.19	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	-52.3	-38.2	-46.1	-43.6	-44.9	242.6	42.6	-45.7	-46.2	-39.1	-39.2	-9.0	13.2	-21.1	175	132	12.7	145.1	145.1	-30.3	-158.4	-89.2	-50.7	--	15.1	-31.9	-20.4	--	--	--	--	--	--	--	--	--	--
pH	*	SU	6.8	6.95	6.84	6.8	6.79	6.92	8.29	7.09	7.59	6.58	6.55	6.43	9.37	6.98	0.643	7.25	10.24	7.37	7.37	0.78	8.41	7.61	9.79	--	8.42	6.13	6.14	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	18.97	22.62	21.98	21.56	20.04	28	12.40	24.26	19.70	20.61	23.55	30.20	16.03	22.39	19.63	24.18	16.34	30.78	30.78	19.9	25.03	21.72	23.36	--	22.18	17.79	23.35	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	4.57	1.32	1.05	4.01	7.5	17.1	8.75	249	23.20	9.72	9.96	7	1.68	5.97	15.6	4.93	3.85	18	18	9.9	10.8	14.5	29.8	--	72.3	0.62	3.23	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																																						
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	319	296	317	268	76	62	73 B	720 B	33 J	710 B	< 50	400 *	380 *	87	32 J	< 1000	--	--	--	< 1000	--	120	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.64	11.2	7.35	9.9	7.5	11	23	11	--	12	9.4	11 N
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	< 0.100	0.923	1.96	0.352	0.83 HF	0.56 HF	0.037 J HF	< 0.025 HF	0.044 JHF	0.081 JHF	< 0.10 HF	< 0.10 HF	< 0.10 HF	< 0.10 HF	< 0.10	< 0.10	--	--	0.59	24.8	8.6	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.402	0.382	0.416	0.39	0.47	0.39	0.49	0.52	--	0.49	0.56	0.51
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.354	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	7	330	340	580	150	82	47	140	41	75	49	370	< 0.19	700	380	1,300	--	--	680	1,000	450	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	< 0.25	< 0.25	<0.25	<0.25	< 0.25	< 0.25	0.14 J	0.085 J	1.2	0.87 J	4.2	3.4	3.7	1.1	< 0.50	< 12	--	--	< 0.25	< 0.25	0.25 U	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.36	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	9.41 H	6.32 H	7.02 H	7.91 H	7.0	6.8	1.7	1.7	1.9	1.6	2.0	1.6	1.6	2.1	1.3	3.8	--	--	7.0	1.7	2.7	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	6.8	4.6	7.2	4.8	5.6	5.6	7.6	9.2	14	12	17	23	22	24	7.1	< 50	--	--	6.5	4.8	5.3	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2 U	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																																						
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	**9.7 J**	< 100	< 100	< 100	**57 J**	**15.0 J**	< 50	< 50	< 50	--	< 50	< 50	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 5.0	< 5.0	< 5.0	**6.9**	< 5.0	< 0.25	< 0.25	< 0.25	< 5.0	< 5.0	< 5.0	< 5.0	**9.6**	**7.5**	**240**	**220**	**210**	--	**120**	< 5	**29**	**48**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.16 J**	1.0 U
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60 *	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	< 5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	< 5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	**3.2 J B ***	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	< 5	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.29 J**	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	**1.0 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**0.37 J**	< 5.0	< 5.0	< 5.0	--	< 5	< 5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.5 J**	1.0 U	1.0 U	1.0 U
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	< 5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.47 J**	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	< 5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	--	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds																																						
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**--**	--	--	--	--	--	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.50	< 0.50	< 0.50	< 0.19	< 0.19	< 0.11	< 0.13	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	--	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.19	< 0.19	< 0.11	< 0.13	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	--	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.11	< 0.13	< 0.10	< 0.19	< 0.19	< 0.19	**< 0.19**	< 0.19	< 0.19	< 10	--	--	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.11	< 0.13	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	--	--	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.75 J**
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.11	< 0.13	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	--	--	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.11	< 0.13	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	--	--	< 0.1	< 0.1	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.11	< 0.13	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	--	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.11	< 0.13	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	--	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.048	< 0.057	< 0.045	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	--	--	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.93 J**
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.11	< 0.13	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	--	--	< 0.1	< 0.1	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.11	< 0.13	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	--	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.11	< 0.13	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	--	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.11	< 0.13	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	--	--	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.8**	**0.94**	< 0.50	< 0.50	**0.97**	< 0.19	**0.27**	**0.57**	**0.25**	< 0.19	<0.19	**0.24**	**0.32**	**0.18 J**	**0.42**	< 10	--	--	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	**0.067**	< 0.05	< 0.50	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.11	< 0.13	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	--	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.11	< 0.13	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	**0.022 J**	< 0.19	< 10	--	--	< 10	< 10	< 10	< 0.2	< 0.2	< 0.0002	< 0.2	< 0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Inorganic Compounds																																						
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**--**	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**2.6**	**0.084 B**	--	0.2 U	**0.082 B**	0.2 U
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	--	--	< 0.02	< 0.02	< 0.02	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.02 U	--	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	<0.0500	--	--	< 0.05	< 0.05	< 0.05	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0063 B**	0.01 U	--	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.451**	**0.337**	**0.262**	**0.291**	**0.312**	**0.276**	**0.201**	**0.269**	**0.270**	**0.315**	**0.25**	**0.28**	**0.14**	**0.24**	**0.16**	**0.23**	**0.10**	**0.21**	**0.22**	**0.3**	**0.28**	**0.183**	--	--	**0.255**	**0.329**	**0.344**	**0.343**	**0.314**	**0.33**	**0.35**	**0.33**	**0.41**	**0.33**	--	**0.35**	**0.34**	**0.33**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00028 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	--	--	< 0.010	< 0.010	< 0.01	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	--	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	**0.0025 J**	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	--	--	< 0.005	< 0.005	< 0.005	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.0011 B**	**0.00084 B**	--	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**21.7**	**18.3**	**21**	**23**	**23**	**22**	**21**	--	**22**	**23**	**21**
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	< 0.0012	**0.0029 J**	**0.0012 J**	< 0.010	< 0.010	< 0.010	**0.016**	**0.0066 J**	< 0.0100	--	--	< 0.010	< 0.010	< 0.01	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0073 B**	0.01 U	--	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0077 B**	**0.0045 B**	--	**0.0048 B**	**0.0064 B**	**0.0046 B**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	**0.0037 JB**	< 0.020	< 0.020	< 0.020	< 0.020	**0.0042 J**	< 0.020	< 0.0100	--	--	< 0.010	< 0.010	< 0.01	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0089 B**	**0.00092 B**	--	**0.0012 B**	0.02 U	0.02 U
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	**0.011**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	--	--	< 0.010	< 0.010	< 0.01	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0100	--	--	< 0.010	< 0.010	< 0.01	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.0038 B**	0.005 U	--	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**16.4**	**12.8**	**15**	**17**	**16**	**16**	**15**	--	**16**	**17**	**15**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	--	--	< 0.0002	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	**0.00024**	0.0002 U	0.0002 U	0.0002 U	--	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	< 0.0023	**0.0025 J**	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	**0.0030 J**	< 0.040	< 0.0200	--	--	< 0.02	< 0.02	< 0.02	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	**0.0075 B**	**0.0048 B**	--	0.04 U	**0.006 B**	0.04 U
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	1 U	**1.2**	**1.2**	**1.1**	**1.4**	**1.4**	--	**1.3**	**1.2**	**1.3**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.0200	--	--	< 0.02	< 0.02	< 0.02	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	**0.0055 B**	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**26.5**	**23.7**	**26**	**30**	**28**	**28**	**26**	--	**28**	**29**	**26**
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	--	--	< 1.00	< 1	< 0.001	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 UWN	--	0.002 U	0.002 UW	0.002 U
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	**0.0129**	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0024	< 0.0024	**0.0045 J**	< 0.010	< 0.010	< 0.010	< 0.010	0.028	**0.0047 J**	< 0.0100	--	--	**0.0585**

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207
		Sample Date	1/23/2018	7/25/2017	1/24/2017	7/26/2016	1/19/2016	7/27/2015	1/12/2015	7/17/2014	1/6/2014	7/8/2013	1/7/2013	7/24/2012	1/16/2012	7/5/2011	1/17/2011	7/14/2010	1/6/2010	7/27/2009	1/15/2009	7/15/2008	1/9/2009	7/10/2007	2/15/2007	7/11/2006	1/11/2006	7/21/2005	1/19/2005	7/16/2004	1/23/2004	7/20/2003	1/20/2003	7/9/2002	1/17/2002	7/11/2001	1/18/2001
		Unit	Post-ISCO																								Pre-ISCO								
Field Parameters																																			
Conductivity	*	mS/cm	0.506	0.508	0.406	0.333	0.546	504	0.513	0.492	0.492	0.532	0.524	0.628	0.523	0.616	0.13	0.603	0.586	0.672	1.01	0.635	0.709	0.531	0.709	0.646	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.13	0.26	0.49	0.11	0.14	4	0.30	0.86	0.22	0.06	0.14	0.10	4.79	1.43	5.54	0.66	4.48	3.56	5.85	0.39	0.31	0.30	0.78	0.28	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	-32.3	-13.1	-17.7	-36.9	-69.5	-50	-56.9	75.6	-57.9	-46.0	2.1	-39.4	170.6	-55.4	-14.8	-71.1	-48.9	-36.9	-35.4	-58	-61.8	-41.9	-47.9	-70.7	--	--	--	--	--	--	--	--	--	--
pH	*	SU	5.46	6.15	6.13	6.02	6.88	6.25	6.05	6.2	6.12	6.28	6.32	5.47	2.48	5.65	0.5	6.02	5.98	6.18	0.589	6.03	6.03	6.10	6.05	6.04	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	21	24.76	20.66	24.27	20.82	32.4	16.15	22.19	18.88	21.67	18.83	24.67	18.81	23.62	17.85	25.44	15.33	26.85	16.77	22.56	21.04	23.31	17.71	23.39	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	8.88	2.67	2.19	3.01	3.09	12.4	2.17	0.57	1.59	7.78	0.53	2.13	2.41	9.6	NA	5.73	9.5	30	3.3	4.83	0.99	4.14	4.47	3.21	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																																			
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	65.3	68.7	71	70	75	80	69	78	75	82	75
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.94	0.981	1.1	1.2	1.3	1.1	1.2	1.3	1.3 N	1.1 N	1.2
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																																			
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	**14 J**	< 100	< 100	< 100	**13 J**	< 50	< 50	< 50	< 50	< 10	< 25	< 25	< 25	< 25	< 25	**26**	< 25	**120**	< 25	< 25
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	< 0.25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	**11**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60 *	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.23 J**	< 1.0	< 1.0	< 1.0	< 1.0
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	**3.3 JB** *	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.65 J**	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	**0.17 JB**	< 2.0	< 2.0	< 2.0	< 2.0
Semivolatile Organic Compounds																																			
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20	< 0.21	< 0.10	< 0.11	< 0.099	< 0.19	< 0.19	< 0.20	< 0.19	< 0.20	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.21	< 0.10	< 0.11	< 0.099	< 0.19	< 0.19	< 0.20	< 0.19	< 0.20	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.21	< 0.10	< 0.11	< 0.099	< 0.19	< 0.19	< 0.20	< 0.19	< 0.20	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.21	< 0.10	< 0.11	< 0.099	< 0.19	< 0.19	< 0.20	< 0.19	< 0.20	<0.050	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.21	< 0.10	< 0.11	< 0.099	< 0.19	< 0.19	< 0.20	< 0.19	< 0.20	<0.050	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.21	< 0.10	< 0.11	< 0.099	< 0.19	< 0.19	< 0.20	< 0.19	< 0.20	<0.10	< 0.1	< 0.1	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.21	< 0.10	< 0.11	< 0.099	< 0.19	< 0.19	< 0.20	< 0.19	< 0.20	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.21	< 0.10	< 0.11	< 0.099	< 0.19	< 0.19	< 0.20	< 0.19	< 0.20	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.21	< 0.046	< 0.049	< 0.045	< 0.19	< 0.19	< 0.20	< 0.19	< 0.20	<0.050	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.21	< 0.10	< 0.11	< 0.099	< 0.19	< 0.19	< 0.20	< 0.19	< 0.20	<0.10	< 0.1	< 0.1	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 1.0	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.21	< 0.10	< 0.11	< 0.099	< 0.19	< 0.19	< 0.20	< 0.19	< 0.20	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.21	< 0.10	< 0.11	< 0.099	< 0.19	< 0.19	< 0.20	< 0.19	< 0.20	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.058**	< 0.050	< 0.050	< 0.050	< 0.20	< 0.21	< 0.10	< 0.11	< 0.099	< 0.19	< 0.19	< 0.20	< 0.19	< 0.20	<0.050	< 0.05	< 0.05	< 0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20	< 0.21	< 0.10	< 0.11	< 0.099	< 0.19	< 0.19	< 0.20	< 0.19	**0.12 J**	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.21	< 0.10	< 0.11	< 0.099	< 0.19	< 0.19	< 0.20	< 0.19	< 0.20	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.21	< 0.10	< 0.11	< 0.099	< 0.19	< 0.19	< 0.20	< 0.19	< 0.20	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10
Inorganic Compounds																																			
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	**0.11 B**
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	< 0.02	< 0.01	< 0.006	< 0.02	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	**0.013 J**	**0.0095 J**	**0.0046 J**	**0.0082 JB**	< 0.020	< 0.020	**0.0063 J**	**0.0100 J**	<0.0500	< 0.05	< 0.05	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.0048 B**	**0.0075 J**	**0.0087 B**	**0.0064 B**	< 0.01
Barium	2	mg/L	**0.251**	**0.259**	**0.212**	**0.211**	**0.357**	**0.305**	**0.271**	**0.262**	**0.353**	**0.290**	**0.35**	**0.34**	**0.34**	**0.31**	**0.33**	**0.25**	**0.29**	**0.3**	**0.35**	**0.34**	**0.366**	**0.335**	**0.323**	**0.347**	**0.335**	**0.379**	**0.38**	**0.41**	**0.41**	**0.37**	**0.4**	**0.4**	**0.4**	**0.39**	**0.41**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00024 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010	< 0.010	< 0.005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	**0.00079 B**	< 0.004	< 0.004
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	**0.0062**	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.002	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.0022 B**
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**15.4**	**15.6**	**16**	**18**	**19**	**16**	**17**	**17**	**17**	**16**	**17**
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0016 J**	**0.0030 J**	**0.0022 J**	**0.0021 J**	< 0.010	< 0.010	**0.0020 J**	**0.0019 J**	< 0.0100	< 0.010	< 0.010	< 0.010	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01N	< 0.01
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.0182**	**0.0178**	**0.019**	**0.018**	**0.017**	**0.02**	**0.018**	**0.02**	**0.019**	**0.018**	**0.02**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	< 0.0019	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	< 0.010	< 0.010	< 0.010	0.0< 25	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0011 B**	< 0.02	< 0.02	< 0.02N	**0.0016 B**
Cyanide	0.2	mg/L	< 0.01	**0.029**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	**0.012**	**0.0060 J**	**0.017**	< 0.0050	< 0.010	< 0.010	< 0.010	**0.0050 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.015	**0.0051 B**	**0.0058 J**	**0.0059 B**	**0.0076 B**	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0100	< 0.010	< 0.010	< 0.010	< 0.003	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.0015 B**	< 0.005
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**18.6**	**17.4**	**18**	**18**	**18**	**16**	**17**	**18**	**18**	**18**	**17**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0000991	< 0.0000991	< 0.0000991	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	**0.00014 B**	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	**0.0076 J**	**0.0056 J**	**0.0074 J**	**0.0031 J**	< 0.040	< 0.040	**0.0070 J**	**0.0065 J**	< 0.0200	< 0.02	< 0.02	0.02 U	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	**0.0062 B**	**0.0096 J**	**0.0077 B**	**0.0058 B**	**0.0075 B**
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	**1.26**	**1.6**	**1.8**	**1.8**	**1.8**	**1.6**	**1.7**	**1.8 N**	**1.5**	**1.8**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02	0.02 U	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.0061 B**	< 0.01	< 0.01	< 0.01	< 0.01
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**53**	**51.9**	**49**	**52**	**43**	**50**	**53**	**44**	**40**	**51**	**44**
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001	< 0.001	< 0.002	< 0.002WN	< 0.002J	< 0.002	< 0.002	< 0.002
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0051 J**	**0.0083 J**	**0.0048 J**	**0.0063**	< 0.010	< 0.010	**0.0045 J**	**0.0060 J**	< 0.0100	< 0.010	**0.103**	< 0.007	< 0.007	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.0036 B**	< 0.004	**0.0044 B**	**0.0042 B**	< 0.01
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0087	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.03**	< 0.02	< 0.02	**0.035**	< 0.02	**0.0069 B**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-211	MW-211	MW-211	MW-211	MW-211	MW-211	MW-211	MW-211	MW-211	MW-211	MW-211	MW-211	MW-211	MW-211	MW-211	MW-211	MW-211	MW-211
		Sample Date	7/23/2009	1/15/2009	7/17/2008	1/9/2008	7/10/2007	2/13/2007	7/14/2006	1/17/2006	7/20/2005	1/19/2005	7/15/2004	1/24/2004	7/16/2003	1/16/2003	7/12/2002	1/21/2002	7/12/2001	1/16/2001
		Unit	Post-ISCO								Pre-ISCO									
Field Parameters																				
Conductivity	*	mS/cm	0.201	0.84	0.3	0.218	0.3	0.622	0.35	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.11	5.92	0.37	0.22	0.27	0.14	0.67	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	-83.7	-16.5	-201	-91.0	-92.7	-28.5	-66.7	--	--	--	--	--	--	--	--	--	--	--
pH	*	SU	6.3	0.307	6.13	6.17	6.18	6.13	6.28	--	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	22.91	20.41	22.88	21.36	22.30	17.34	21.09	--	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	5.1	4.3	7.29	9.37	2.80	0.84	4.82	--	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																				
Carbon Dioxide	*	µg/L	880	710	990	< 1000	< 1000	--	720	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	14.4	15.9	2.31	0.05 U	0.05 U	3.6	0.04 U	0.050 U	0.028 B	0.05 U	0.13	0.031 B
Iron, as Ferrous (Fe+2)	*	mg/L	1.6 HF	1.2 HF	4.1	7.10	13.4	12.2	12.9	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	2.98	2.72	0.399	0.82	0.49	2.1	0.77	0.91	0.55	0.92	1.2	0.72
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	2.23	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	670	260	150	100	3,000	140	220	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	< 1.1	0.26	0.66	0.32	< 0.25	0.64	1.1	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	17	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	0.89	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	0.98	1.2	1.1	3.3	1.7	1.1	1.2	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	5.6	20	16	17	18	23	37	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	2 U	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																				
Acetone	4,000	µg/L	< 100	< 100	< 100	< 50	< 50	< 50	50 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.79 J**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.0**	1.0 U	1.0 U	1.0 U	**0.58 J**	1.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.17 J**
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.32 J**	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	5	µg/L	**5.7**	**1.4 J**	**2.5 J**	< 5.0	**5.8**	< 5	**8.2**	**3.3**	1.0 U	**3.2**	**2.2**	**2.4**	**5**	**4.4**	**4.7**	**5.4**	**7.3**	**0.74**
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds																				
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 0.19	**0.027 JB**	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.25**	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds																				
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	**0.364**	**3.02**	0.2 U	0.2 U	**6.4**	0.2 U	**0.068 B**	**0.028 B**	**0.03 B**	**0.13 B**	0.2 U
Antimony	0.01	mg/L	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U	0.02 U	**0.0076 B**
Arsenic	0.05	mg/L	< 0.020	< 0.010	< 0.010	<0.0500	< 0.05	< 0.05	0.05 U	0.01 U	**0.0126**	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.069**	**0.099**	**0.075**	**0.0714**	**0.0763**	**0.0763**	**0.0577**	0.2 U	**0.0623**	**0.066**	**0.065**	**0.094**	**0.05**	**0.052**	**0.059**	**0.064**	**0.06**	**0.047**
Beryllium	0.004	mg/L	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.004 U	0.004 U	0.004 U	**0.0022 B**
Cadmium	0.005	mg/L	**0.01**	**0.01**	**0.009**	< 0.0050	< 0.005	< 0.005	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.0050 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	**--**	**--**	**--**	--	--	--	--	**27.8**	**24.1**	**17**	**21**	**20**	**22**	**22**	**22**	**23**	**22**	**20**
Chromium	0.1	mg/L	< 0.010	**0.0015 J**	< 0.010	< 0.0100	< 0.010	< 0.010	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	**--**	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Copper	1.3	mg/L	< 0.020	**0.0064 J**	**0.0055 J**	< 0.0100	< 0.010	< 0.010	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.020 U	**0.0009 B**	0.02 U	0.02 U	0.02 U
Cyanide	0.2	mg/L	< 0.010	< 0.010	**0.0070 J**	< 0.010	< 0.010	< 0.010	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.010	< 0.0050	< 0.0050	< 0.0100	< 0.010	< 0.010	0.01 U	**0.0042**	**0.0158**	0.005 U	0.005 U	**0.0054**	0.005 UJ	0.0050 U	0.005 U	0.005 U	0.005 U	**0.0034 B**
Magnesium	*	mg/L	**--**	--	--	--	--	--	--	**6**	**4.2**	**9.2**	**12**	**9.9**	**9.9**	**11**	**12**	**12**	**12**	**11**
Mercury	0.002	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	**0.00016 B**	**0.00014 B**	**0.00016 B**	**0.00021**	**0.00025**
Nickel	0.1	mg/L	< 0.040	< 0.040	**0.0044 J**	< 0.0200	< 0.02	< 0.02	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 UJ	0.040 U	0.04 U	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	**--**	--	--	--	--	--	--	**27.9**	**103**	**5.4**	**5.8**	**6**	**4.7**	**5.7**	**5.5**	**5.4**	**5.0**	**5.5**
Selenium	0.05	mg/L	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	**--**	--	--	--	--	--	--	**41.6**	**5.68**	**59**	**74**	**64**	**55**	**46**	**47**	**43**	**37**	**45**
Thallium	0.002	mg/L	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.0020 UWN	0.002 UWN	0.002 U	0.002 UW	0.002 UW
Vanadium (fume or dust)	0.2	mg/L	< 0.010	**0.0026 J**	**0.0040 J**	< 0.0100	< 0.010	< 0.010	0.01 U	0.007 U	**0.0453**	0.01 U	0.01 U	**0.013**	0.01 UJ	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	**0.042**	**0.034**	**0.023**	**0.0320**	< 0.02	**0.0703**	0.02 U	**0.0392**	**0.291**	**0.061**	0.02 U	**0.025**	**0.04**	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214
		Sample Date	1/24/2018	7/26/2017	1/25/2017	7/27/2016	1/20/2016	7/28/2015	1/13/2015	7/15/2014	1/9/2014	7/8/2013	1/8/2013	7/24/2012	1/16/2012	7/5/2011	1/17/2011	7/15/2010	1/5/2010	7/22/2009	1/14/2009	7/18/2008	1/8/2008	7/11/2007	2/15/2007	7/11/2006	1/15/2006	7/19/2005	7/13/2004	1/21/2004	7/15/2003	1/20/2003	7/11/2002	1/21/2002	7/13/2001	7/13/2001 DUP	1/17/2001
		Unit	Post-ISCO																								Pre-ISCO									
Field Parameters																																				
Conductivity	*	mS/cm	0.287	0.198	0.292	0.291	0.261	300	0.226	0.203	0.171	0.206	0.308	0.305	0.327	0.206	2.24	0.243	0.214	0.249	0.65	0.252	0.230	0.229	0.237	0.214	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.13	3.6	0.27	0.29	0.32	0.45	0.45	0.89	0.37	0.44	0.53	0.14	0.74	0.73	6.88	0.41	3.38	2.59	6.75	0.49	0.62	0.28	0.46	0.13	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	-82.9	150.8	-62	-30.2	-113.6	277.8	-73.5	-49.8	-74.0	-144.8	-61.5	-106.2	-144.2	-48.9	-62	-78	-44.6	-253.5	-76.8	-118	-90.9	-69.2	-85.3	-71	--	--	--	--	--	--	--	--	--	--
pH	*	SU	6.77	6.51	6.75	6.37	7.89	6.85	6.51	6.34	6.76	6.79	6.65	6.45	6.81	6.36	0.254	6.68	6.9	12.81	0.24	6.66	6.71	6.80	6.8	6.85	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	20.31	23.73	20	23.09	19.67	27.6	16.6	21.45	20.82	22.67	17.32	25.62	17.77	24.38	16.97	23.8	16.51	26.37	19.15	24.23	20.72	24.61	18.94	22.99	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	0.98	5.36	0.56	1.55	0.71	5.74	2.19	2.51	3.21	1.37	3.60	7.22	6.42	9.3	2.18	1.25	7.63	3.2	5.3	1.23	0.09	0.69	2.55	0.29	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																																				
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	108	101	125	107	28	40	380 B	300 B	220 *	310 JB	260	270 *	250	270	< 1000	< 1000	--	240	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.09	2.04	1.55	1.4	2.6	4.5	0.46	0.99	2	1.8	1.8	1.7
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	2.56	< 0.100	0.149 H	0.518 H	0.43 HF	2.0 HF	1.3 HF	0.41 HF	0.59 HF	1.1 HF	1.0 HF	1.0 HF	0.12 HF	1.4	2.48	2.41	2.17	1.87 H	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.722	0.644	0.655	0.73	0.74	0.95	0.49	0.6	0.7	0.68	0.69	0.72
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.604	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	410	< 4	650	680	2,400	3,600	1,600	24	37	46	230	190	100	32	140	160	140	100	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	< 0.25	0.42	<0.25	<0.25	< 0.25	< 0.25	< 0.075	< 0.075	< 0.36	<1.1	< 1.1	< 1.1	< 0.050	<0.50	< 0.25	< 0.25	< 0.25	0.25 U	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	7.17 H	7.95 H	5.55 H	6.75 H	5.0	3.7	1.2	1.7	2.2	1.5	1.4	1.4	1.3	1.3	2.0	1.8	1.8	2.8	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	< 1.0	26	<1.0	<1.0	< 5.0	< 5.0	< 2.6	< 2.6	< 2.6	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	1.1	1.1 U	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2 U	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																																				
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	< 100	< 50	< 50	< 50	50 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 UJ
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	**0.49 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.15 J**	**0.2 J**	**0.21 J**	**0.29 J**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60 *	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	0.12J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.15 J**	1.0 U	1.0 U	0.12 U
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	**3.3 J B ***	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**0.61 J**	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds																																				
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.23	< 0.19	< 0.095	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.23	< 0.19	< 0.095	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.23	< 0.19	< 0.095	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.23	< 0.19	< 0.095	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.23	< 0.19	< 0.095	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.23	< 0.19	< 0.095	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.23	< 0.19	< 0.095	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.23	< 0.19	< 0.095	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.23	< 0.19	< 0.043	< 0.049	< 0.046	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.23	< 0.19	< 0.095	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	< 0.23	< 0.19	--	--	--	--	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.23	< 0.19	< 0.095	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	--	--	< 0.095	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.23	< 0.19	< 0.095	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 500	< 0.50	< 0.50	< 0.50	< 0.23	< 0.19	**1.0**	< 0.11	**1.1**	< 0.19	< 0.19	< 0.19	**0.037 J**	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	< 0.05	**0.073**	< 0.05	< 0.05	< 0.05	< 0.05	<0.50	< 0.050	< 0.050	< 0.050	< 0.23	< 0.19	< 0.095	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.23	< 0.19	< 0.095	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds																																				
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.234**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.032 B**	**0.047 B**	**0.046 B**	**0.043 B**	0.2 U
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	0.02 U	0.01 U	0.006 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0071 J**
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	<0.0500	< 0.05	< 0.05	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0053 B**	0.01 U
Barium	2	mg/L	**0.4**	**0.0938**	**0.338**	**0.397**	**0.388**	**0.379**	**0.338**	**0.0362**	**0.324**	**0.241**	**0.28**	**0.15**	**0.22**	**0.34**	**0.12**	**0.82**	**0.33**	**0.35**	**0.33**	**0.33**	**0.350**	**0.315**	**0.284**	**0.306**	**0.264**	**0.251**	**0.25**	**0.29**	**0.17**	**0.27**	**0.3**	**0.33**	**0.3**	**0.31**	**0.31**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.00020	**0.00020 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.00098 U
Cadmium	0.005	mg/L	< 0.005	**0.00641**	< 0.005	< 0.005	< 0.005	**0.0076**	< 0.0050	< 0.0050	**0.0213**	< 0.0050	**0.025**	**0.016**	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	**0.008**		**0.00077 B**	**0.00084 B**	0.005 U	0.005 U	0.005 U	**0.0012 J**
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**18.8**	**20.8**	**22**	**19**	**22**	**18**	**18**	**18**	**17**	**18**	**17**
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	**0.0012 J**	< 0.0012	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	**0.0032 B**	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 UJ	**0.0019 B**	**0.0028 B**	**0.003 B**	**0.0035 B**	**0.0027 B**	**0.0032 J**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	< 0.0019	< 0.020	< 0.020	< 0.020	**0.0025 J**	< 0.020	< 0.0100	< 0.010	< 0.010	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0022 B**	**0.0015 B**	**0.0016 B**	0.02 U	0.02 U	0.02 U
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	**0.015**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	**0.0030 J**	**0.0031 J**	< 0.0100	< 0.010	< 0.010	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0028 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**9.31**	**9.3**	**8.6**	**9.2**	**5.2**	**8.9**	**9**	**9.7**	**9.1**	**9.2**	**8.9**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	0.000084	< 0.00020	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	**0.00011 B**	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	**0.0036 J**	**0.0028 J**	< 0.0023	< 0.040	< 0.040	< 0.040	**0.0025 J**	< 0.040	< 0.0200	< 0.02	< 0.02	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 UJ	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	**2.99**	**3.3**	**4.2**	**33**	**5**	**3.6**	**2.6**	**2.6**	**2.6**	**2.9**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**12.8**	**14.4**	**13**	**13**	**5.5**	**13**	**13**	**14**	**13**	**13**	**13**
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	**0.00037 J**	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 UWN	0.002 UWN	0.002 U	0.002 UW	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0061 J**	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	< 0.02	**0.0448**	< 0.02	< 0.02	**0.023**	**0.0323**	< 0.0200	< 0.0200	**0.110**	< 0.0200	<0.020	**0.064**	**0.018 J**	**0.022**	< 0.0087	<0.020	<0.020	**0.032**	**0.013 J**	< 0.020	< 0.0200	< 0.02	< 0.02	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.066**	**1.2**	**0.032**	**0.025**	0.02 U	0.02 U	**0.015 B**	**0.052**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303	MW-303
		Sample Date	1/23/2018	7/25/2017	1/24/2017	7/26/2016	1/19/2016	7/28/2015	1/13/2015	7/15/2014	1/8/2014	7/9/2013	1/7/2013	7/23/2012	1/17/2012	7/5/2011	1/17/2011	7/15/2010	1/5/2010	7/22/2009	1/14/2009	7/17/2008	1/9/2008	7/11/2007	2/15/2007	7/12/2006	2/8/2006	1/11/2006	7/22/2005	1/20/2005	7/14/2004	1/20/2004	7/17/2003	1/15/2003	7/10/2002	1/22/2002	7/10/2001	1/18/2001
		Unit	Post-ISCO																										Pre-ISCO								
Field Parameters																																					
Conductivity	*	mS/cm	0.468	0.457	0.518	0.533	0.52	471	0.545	0.553	0.563	0.671	0.680	0.767	0.649	0.687	2.16	0.668	0.632	0.713	0.76	0.842	0.799	0.805	0.874	0.846	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.12	0.17	0.14	0.06	0.13	0.34	0.57	0.24	0.20	0.14	0.58	0.57	3.50	1.16	5.96	0.43	0.36	0.19	5.45	0.39	7.99	0.42	0.26	0.15	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	-55.1	3.7	-14.6	10.9	-5.2	5.4	-4.2	-26.9	-12.3	43.5	13.6	46.6	138.0	36.7	-13.1	-132.5	21	68.6	84.8	66.7	103.7	118.9	86.3	124.6	--	--	--	--	--	--	--	--	--	--	--
pH	*	SU	6.08	5.89	6.04	5.83	6.38	6.25	5.69	6.04	5.97	5.96	5.99	5.11	5.80	5.03	0.696	5.88	6.23	5.53	0.84	5.45	5.81	5.57	5.73	5.93	--	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	23.18	23.37	22.96	22.73	22.17	26.9	15.5	23.36	21.66	24.28	22.32	26.96	23.35	24.18	19.83	25.41	17.36	25.16	21.65	26.29	22.84	23.60	21.37	24.43	--	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	0.36	1.55	0.36	2.68	0.99	9.76	1.24	6.03	2.35	1.72	1.78	9.05	6.8	5.42	0.79	8.6	2.81	2.1	1.2	6.26	0.08	0.00	0.82	0.24	--	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																																					
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	168	207	388	314	240	240	3,400 B	3,400 B	2,700 *	3,500 JB	3,000	3,600 *	3,900	3,800	< 1000	< 1000	--	1,700	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	--	0.463	0.397	0.67	0.69	0.98	1	1.9	2.5	1.8	1.5	1.1
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	6.83	10	9.78	8.34	8.6 HF	10 HF	2.5 HF	12 HF	13 HF	10 HF	9.6 HF	7.1 HF	9.6 HF	6.6	2.41	0.87	0.1	0.1 U	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.417	--	0.845	0.792	0.83	0.69	0.59	0.54	0.59	0.69	0.54	0.54	0.43
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.368	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	150	170	100	100	21	38	23	53	52	54	25	13	6.7	0.49	10	18	9	0.94	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	< 0.25	< 0.25	<0.25	<0.25	< 0.25	< 0.075	0.19 J	< 0.075	< 0.36	<1.1	< 1.1	< 1.1	< 0.050	< 0.50	< 0.25	< 0.25	< 0.25	0.49	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	7.89 H	7.08 H	8.16 H	6.96 H	5.2	5.6	1.1	1.2	1.3	1.2	1.2	0.44	0.86	0.89	1.8	1.9	1.5	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	< 1.0	77	76	120	140	140	120	150	120	110	150	160	170	210	210	200	210	150	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2 U	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																																					
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	< 100	< 50	< 50	< 50	50 U	10 U	**67**	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	< 0.25	< 0.25	< 5.0	**9.0**	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.9**	1.0 U	1.0 U
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60 *	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.13 J**	**3.5**	1.0 U	1.0 U
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	**3.4 J B ***	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	--	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	**0.34 J**	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.41 J**	1.0 U	1.0 U
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**0.26 J**	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	--	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.49 J**	**0.93 J**	2.0 U	2.0 U
Semivolatile Organic Compounds																																					
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	< 0.5	**0.54**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20	< 0.11	< 0.095	< 0.12	**0.64**	**1.3**	< 0.94	**0.61**	**0.23**	**0.024 J**	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	**0.33 J**	**30**	10 U	10 U
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.11	< 0.095	**0.21 J**	**0.31**	**0.56**	< 0.94	**0.36**	**0.22**	**0.076 J**	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	**0.43**	**0.16**	**0.12**	**0.076**	< 0.05	< 0.05	**0.087**	**0.18**	**0.14**	**0.13**	< 0.20	< 0.11	**0.12 J**	**0.25**	**0.23**	**0.26**	< 0.94	< 0.19	**0.14 J**	**0.095 J**	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.11	< 0.095	< 0.12	< 0.10	< 0.19	< 0.94	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.11	< 0.095	< 0.12	< 0.10	< 0.19	< 0.94	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.11	< 0.095	< 0.12	< 0.10	< 0.19	< 0.94	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.11	< 0.095	< 0.12	< 0.10	< 0.19	< 0.94	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.11	< 0.095	< 0.12	< 0.10	< 0.19	< 0.94	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.048	< 0.043	< 0.056	< 0.047	< 0.19	< 0.94	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.11	< 0.095	< 0.12	< 0.10	< 0.19	< 0.94	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	**0.8 J**	10 U	10 U
Fluoranthene	1,000	µg/L	**0.46**	**0.16**	**0.18**	**0.16**	**0.15**	< 0.1	**0.11**	**0.14**	**0.10**	< 0.10	< 0.20	< 0.11	< 0.095	< 0.12	< 0.10	< 0.19	< 0.94	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	< 0.1	**0.28**	**0.13**	**0.11**	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.11	< 0.095	**0.15 J**	**0.36**	**0.44**	< 0.94	< 0.19	**0.11 J**	< 0.19	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.11	< 0.095	< 0.12	< 0.10	< 0.19	< 0.94	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 500	< 0.50	< 0.50	< 0.50	< 0.20	< 0.11	**0.80**	< 0.12	**0.25**	**2**	**46 B**	**1.2**	**0.63**	**0.049 J**	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.06**	< 0.50	< 0.050	< 0.050	< 0.050	< 0.20	< 0.11	< 0.095	< 0.12	< 0.10	< 0.19	**1**	< 0.19	**0.088 J**	**0.043 J**	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	**1.2 J**	10 U	10 U	10 U
Pyrene	1,000	µg/L	**1.3**	**0.44**	**0.38**	**0.33**	**0.30**	**0.11**	**0.11**	**0.11**	**0.072**	< 0.050	< 0.20	< 0.11	< 0.095	< 0.12	< 0.10	< 0.19	< 0.94	< 0.19	**0.076 J**	**0.061 J**	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds																																					
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.209**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.20 U	0.2 U	0.2 U	0.2 U	**0.04 B**
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	0.02 U	--	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	<0.0500	< 0.05	< 0.05	0.05 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.0625**	**0.083**	**0.0794**	**0.0899**	**0.0866**	**0.0916**	**0.0888**	**0.0945**	**0.0943**	**0.113**	**0.14**	**0.14**	**0.14**	**0.14**	**0.14**	**0.12**	**0.12**	**0.14**	**0.16**	**0.24**	**0.230**	**0.193**	**0.226**	**0.22**	--	0.2 U	**0.178**	**0.25**	**0.24**	**0.22**	**0.22**	**0.22**	**0.25**	**0.24**	**0.23**	**0.24**	**0.23**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	**0.00041 J**	**0.00025 J**	**0.00056 J**	**0.00053 J**	**0.00044 J**	< 0.0040	< 0.0040	**0.00069 J**	**0.00085 J**	< 0.0100	< 0.010	< 0.010	0.01 U	--	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	0.0051	< 0.0020	**0.0029 J**	< 0.0050	< 0.0050	< 0.0050	**0.00064 J**	**0.00096 J**	< 0.0050	< 0.005	< 0.005	0.005 U	--	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.01 U	--	**43.8**	**43.2**	**48**	**46**	**41**	**37**	**40**	**39**	**41**	**41**	**37**
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.0012	< 0.0012	< 0.0012	**0.0013 J**	< 0.010	< 0.010	< 0.010	**0.0015 J**	< 0.010	< 0.0100	< 0.010	< 0.010	0.01 U	--	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.01 U	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0022 B**	0.01 U	**0.0023 B**	**0.002 B**	**0.0017 B**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.0019	**0.0025 J**	< 0.0019	< 0.0019	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	< 0.010	< 0.010	0.01 U	--	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U	0.02 U	**0.00091 B**
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	**0.017**	< 0.0050	< 0.010	**0.013**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.010 UJ	0.01 U	0.01 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0100	< 0.010	< 0.010	0.01 U	--	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**40.7**	**39.6**	**45**	**43**	**39**	**37**	**37**	**34**	**38**	**39**	**35**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	0.0002 U	--	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U	0.00020 U	0.00020 U	0.00020 U
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	**0.0073 J**	**0.0065 J**	**0.0064 J**	**0.0060 J**	**0.0046 J**	< 0.040	< 0.040	**0.0070 J**	**0.0079 J**	< 0.0200	**0.0291**	< 0.02	0.02 U	--	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.040 U	0.04 U	0.04 U	**0.0052 B**	0.04 U
Potassium	*	mg/L	--	--	--	--	--	--	< 0.0100	--	--	--	--	--	--	**--**	--	--	--	--	--	--	--	--	--	5 U	--	5 U	1 U	**1.4**	**1.3**	**1.3**	**1.4**	**1.4**	**1.5**	**1.9**	**1.3**	**4.2**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02	0.02 U	--	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.02**	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**56.1**	**66.6**	**75**	**61**	**49**	**51**	**51**	**42**	**42**	**50**	**49**
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.00025	< 0.00025	< 0.00025	**0.00029 J**	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1	0.001 U	--	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.0020 UJ	0.002 UWN	0.002 U	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	**0.0021 J**	**0.0032 J**	< 0.0100	< 0.010	**0.0779**	**0.109**	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	<0.020	**0.0088 J**	**0.061**	< 0.0087	**0.022**	<0.020	<0.020	**0.026**	**0.032**	**0.038**	**0.0238**	< 0.02	< 0.02	0.02 U	--	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.02**	**0.0071 B**	**0.0066 B**	**0.012 B**	0.02 U	**0.032**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS -

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304	MW-304
		Sample Date	1/23/2018	7/25/2017	1/24/2017	7/26/2016	1/19/2016	7/30/2015	1/15/2015	7/15/2014	1/8/2014	7/11/2013	1/8/2013	7/25/2012	1/18/2012	7/5/2011	1/18/2011	7/14/2010	1/6/2010	7/23/2009	1/20/2009	7/15/2008	1/9/2008	7/12/2007	2/15/2007	02/07 DUP	7/12/2006	07/06 DUP	1/16/2006	7/22/2005	1/21/2005	7/14/2004	7/14/2004	1/24/2004	1/24/2004	7/20/2003	1/20/2003	7/17/2002	4/4/2002	1/22/2002	7/16/2001	1/17/2001
		Unit	Post-ISCO																									Pre-ISCO										
Field Parameters																																							
Conductivity	*	mS/cm	0.546	0.329	0.476	0.501	0.43	590	0.448	0.576	0.461	0.561	0.417	0.470	0.470	0.530	0.466	0.533	0.451	0.581	0.366	0.494	0.619	0.547	0.622	0.622	0.474	0.474	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.19	0.15	0.27	0.1	0.36	0.32	0.32	0.18	1.08	0.32	0.66	0.45	0.45	0.16	1.22	0.62	10.14	0.27	0.56	0.6	0.29	0.31	0.14	0.14	0.25	0.25	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	-39	77.5	-36.3	-17.2	-37.1	240.9	-47.1	-54.7	-44.1	-31.4	6.9	-56.1	-56.1	-32.3	-42.6	-106.7	-36.4	-1.2	-8	-89.7	-46.9	-35.8	-28.5	-28.5	-34.3	-34.3	--	--	--	--	--	--	--	--	--	--	--	--	--
pH	*	SU	6.07	6.21	6.17	6.25	6.05	6.03	6.04	6.1	6.30	6.02	6.35	6.11	6.11	6.31	6.36	6.15	7.06	6.04	5.96	5.86	5.96	6.05	6.13	6.13	6.02	6.02	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	18.56	19.67	18.23	18.79	17.11	26	14.6	24.25	16.89	20.51	16.64	16.26	16.26	25.14	16.43	21.47	12.77	20.34	15.39	14.44	18.28	20.01	17.34	17.34	20.11	20.11	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	1.23	3.27	2.13	4.63	4.83	8.18	0.94	0.69	8.31	0.95	2.09	9.93	9.93	1.74	9.19	9.1	8.09	4.8	3	1.42	0.00	4.5	0.84	0.84	3.39	3.39	--	--	--	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																																							
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	305	202	560	352	120	240	3,100 B	2,800 B	2,800	2,500 JB	1,500	2,600	1,400	2,700	< 1000	< 1000	--	--	2,700	2,600	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	40.1	41.1	42.2	41.1	43	42	43	39	42	40	40	43	--	40	40	41
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	32.7	32.7	41.9	42.8 H	40 HF	37 HF	16 HF	25 HF	38 HF	--	--	32 HF	32 HF	2.2 HF	36	43.5	39.1	43.8	43.5	42.2	42.3	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7,000	1.67	1.64	1.6	1.4	1.6	1.6	1.6	1.4	1.5	1.4	1.4	1.5	--	1.4	1.4	1.4
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.25	1.41	1.37	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	6,700	3700	7,400	6,400	1,900	6,000	5,800	3,100	--	5,000	1,100	6,200	1,800	3,300	6,800	7,600	7,200	7,000	5,700	6,900	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	< 0.25	<0.25	<0.25	<0.25	< 0.25	< 0.25	< 0.075	< 0.075	< 0.36	< 1.1	< 1.1	< 1.1	0.048 J	< 0.50	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13	12	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.74	3.63	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	7.48 H	5.52 H	6.33 H	5.28 H	5.2	3.5	1.1	1.4	1.2	1.3	1.4	0.87	1.2	0.85	1.7	0.81	1.7	3.4	1	0.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	--	< 1.0	<1.0	<1.0	< 5.0	< 5.0	< 2.6	< 2.6	< 2.6	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	<1	<1	< 1	< 1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 2	< 2	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																																									
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 25	< 25	**45 J**	< 500	< 100	< 100	< 100	< 50	< 50	< 50 R	< 50	50 R	50 R	80 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	--	25 U	25 U	25 U
Benzene	5	µg/L	**300**	**770**	**290**	**160**	**45**	**22**	**27**	**91**	**27**	**76**	**10**	**43**	**140**	**620**	**410**	**480**	**800**	**340**	**31**	**160**	**130**	**580**	**470**	**460**	**430**	**440**	**0.2**	**4.6**	**24**	**22**	**26**	**18**	**2**	**1.6**	**25**	1.0 U	**32**	**46**	**34**	**34**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 3.0	< 3.0	< 25	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	8.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 5.0	**12**	**28**	<5.0	**36**	**0.97 J**	**2.5 J**	< 0.55	**1.3 J**	< 25	< 5.0	**1.7 J**	**1.8 J**	< 5.0	< 5	**8.8**	**7.7**	**5.4**	**10**	**8.0**	**36**	**67**	**76**	**94**	**75**	**79**	**59**	**110**	1.0 U	**120**	**250 D**	**150**	**140**
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 25	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	8.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.36 J**	5.0 U	5.0 U	5.0 U	5.0 U	**0.67 JB**
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 1.7	< 1.6	< 25	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	8.0 U	1.0 U	**12**	1.0 U	**13**	1.0 U	1.0 U	1.0 U	**11**	1.0 U	**26**	**62**	**33**	**36**
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.65	< 0.65	< 25	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	8.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.23 J**	**0.41 J**
Xylenes, total	2,000	µg/L	**5.3**	**16**	**9.7**	**8.1**	< 5.0	**7.9**	**9.6**	< 5.0	**26**	**29**	<5.0	**43**	**14**	**10 J**	**9.5 J**	**15 J**	**34**	**8.8**	**5.8**	**17**	**19**	**8.4**	**38**	**37**	**12 J**	**21 J**	16 U	**43**	**66**	**50**	**56**	**43**	**43**	**36**	**50 B**	2.0 U	--	**110**	**94**	**83**
Semivolatile Organic Compounds																																									
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**19**	**2.1**	**87**	**73**	**76**	**59**	**65**	**56**	**82**	**74**	--	**100**	**96**	**150**
Acenaphthene	2,000	µg/L	**250**	**15**	**32**	**33**	**28**	**27**	**31**	**34**	**32**	**53**	**31**	**58**	**71**	**4.2**	**28**	**25**	**48**	**29**	**23**	**18**	**44**	< 10	**47**	**47**	**37**	**44**	**38**	**3.6**	**80**	**75**	**78**	**47**	**50**	**68**	**58**	**52**	**98**	**59**	**70**	**120**
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<20	< 4.3	< 0.11	< 0.10	**0.21**	**0.16 J**	< 4.0	< 0.39	**0.27**	**0.28**	< 10	< 10	< 10	< 10	< 10	< 10	0.2 U	0.2 U	10 U	10 U	10 U	**0.29**	0.2 U	10 U	**0.57 J**	10 U	40 U	50 U	**1.0 J**	**1.8 J**
Anthracene	10	µg/L	**0.28**	**0.16**	**0.48**	**0.58**	**0.37**	**0.56**	**0.54**	**0.46**	**0.93**	**1.1**	<20	< 4.3	**0.50**	< 0.10	**0.27**	**0.24**	< 4.0	**0.47**	**0.33**	**0.51**	< 10	< 10	< 10	< 10	< 10	< 10	**0.59**	0.2 U	10 U	10 U	10 U	**1.6**	**16**	10 U	**0.18 J**	**2**	**2.7 J**	50 U	**2.2 J**	**3 J**
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<20	< 4.3	< 0.11	< 0.10	< 0.10	< 0.19	< 4.0	< 0.39	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.2 U	0.2 U	10 U	10 U	10 U	0.2 U	0.2 U	10 U	10 U	10 U	40 U	50 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<20	< 4.3	< 0.11	< 0.10	< 0.10	< 0.19	< 4.0	< 0.39	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.2 U	0.2 U	10 U	10 U	10 U	0.2 U	0.2 U	10 U	10 U	10 U	40 U	50 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<20	< 4.3	< 0.11	< 0.10	< 0.10	< 0.19	< 4.0	< 0.39	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2 U	0.2 U	10 U	10 U	10 U	0.2 U	0.2 U	10 U	10 U	10 U	40 U	50 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<20	< 4.3	< 0.11	< 0.10	< 0.10	< 0.19	< 4.0	< 0.39	< 0.19	< 0.19	< 10	< 10	< 10	< 10	< 10	< 10	0.2 U	0.2 U	10 U	10 U	10 U	0.2 U	0.2 U	10 U	10 U	10 U	40 U	50 U	**0.95 JB**	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<20	< 4.3	< 0.11	< 0.10	< 0.10	< 0.19	< 4.0	< 0.39	< 0.19	< 0.19	< 10	< 10	< 10	< 10	< 10	< 10	0.2 U	0.2 U	10 U	10 U	10 U	0.2 U	0.2 U	10 U	10 U	10 U	40 U	50 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<20	< 4.3	< 0.048	< 0.046	< 0.045	< 0.19	< 4.0	< 0.39	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.2 U	0.2 U	10 U	10 U	10 U	0.2 U	0.2 U	10 U	10 U	10 U	40 U	50 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<20	< 4.3	< 0.11	< 0.10	< 0.10	< 0.19	< 4.0	< 0.39	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2 U	0.2 U	10 U	10 U	10 U	0.2 U	0.2 U	10 U	10 U	10 U	40 U	50 U	**0.86 JB**	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0 U	0.2 U	10 U	10 U	10 U	**1.7**	**2.0**	10 U	**2.1 J**	**21 J**	--	**2.3 J**	**2.6 J**	**4.3 J**
Fluoranthene	1,000	µg/L	**0.29**	**0.19**	**0.51**	**0.57**	**0.44**	**0.38**	**0.40**	**0.43**	**0.54**	**0.62**	<20	< 4.3	**0.39**	< 0.10	**0.20**	**0.21**	< 4.0	< 0.39	**0.24**	**0.29**	< 10	< 10	< 10	< 10	< 10	< 10	**0.45**	0.2 U	10 U	10 U	10 U	**0.76**	**0.76**	10 U	**0.84 J**	**0.95 J**	40 U	50 U	**0.78 J**	10 U
Fluorene	1,000	µg/L	**2.9**	**1.8**	**4.0**	**4.9**	**3.6**	**4**	**4.4**	**3.5**	**5.8**	**6.6**	<20	**8.4**	**5.0**	**0.50**	**3.0**	**2.3**	**6.4**	**2.6**	**2.7**	**3.9**	< 10	< 10	< 10	< 10	< 10	< 10	**4.3**	**0.42**	**13**	**11**	**12**	**11**	**12**	**13**	**11**	**11**	**18 J**	**9.3 J**	**13**	**21**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.064**	< 0.050	< 0.050	< 0.050	<20	< 4.3	< 0.11	< 0.10	< 0.10	< 0.19	< 4.0	< 0.39	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.2 U	0.2 U	10 U	10 U	10 U	0.2 U	0.2 U	10 U	10 U	10 U	40 U	50 U	**0.77 JB**	10 U
Naphthalene	20	µg/L	**220**	**150**	**21**	**11**	**3.6**	**18**	**27**	**12**	**65**	**280**	**300**	**430**	**98**	**20**	**50**	**110**	**190**	**21**	**17**	**76**	**110**	< 10	**190**	**180**	**160**	**210**	**87**	**35**	**700**	**560**	**580**	**450**	**500**	**400**	**620**	**570 D**	**1,300 D**	**980**	**880 D**	**1,200 D**
Phenanthrene	10	µg/L	**1.4**	**0.95**	**2.3**	**3.1**	**2.2**	**2.9**	**3.2**	**2.1**	**5**	**5.7**	<20	**7.2**	**3.0**	**0.18 J**	**1.5**	**1.2**	**5.5**	**1.6**	**1.7**	**2.4**	< 10	< 10	< 10	< 10	< 10	< 10	**3.0**	**0.24**	**10**	**10**	**11**	**9.4**	**9.3**	**11**	**11**	**11**	**16 J**	**11 J**	**12**	**19**
Pyrene	1,000	µg/L	**0.36**	**0.24**	**0.61**	**0.65**	**0.51**	**0.39**	**0.42**	0.45	**0.52**	**0.54**	<20	< 4.3	**0.40**	< 0.10	**0.28**	**0.25**	< 4.0	< 0.39	**0.24**	**0.37**	< 10	< 10	< 10	< 10	< 10	< 10	**0.51**	0.2 U	10 U	10 U	10 U	**0.76**	**0.83**	10 U	**0.95 J**	**0.81 J**	40 U	50 U	**0.92 J**	**1.2 J**
Inorganic Compounds																																									
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	0.2 U	**0.1 B**	**0.2 B**
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.01 U	0.006 U	0.02 U	0.006 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	--	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	<0.0500	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.326**	**0.362**	**0.354**	**0.4**	**0.402**	**0.384**	**0.324**	**0.367**	**0.395**	**0.407**	**0.37**	**0.38**	**0.38**	**0.35**	**0.34**	**0.38**	**0.34**	**0.36**	**0.32**	**0.35**	**0.346**	**0.348**	**0.372**	**0.363**	**0.382**	**0.39**	**0.382**	**0.354**	**0.38**	**0.4**	**0.4**	**0.36**	**0.38**	**0.33**	**0.39**	**0.4**	--	**0.38**	**0.37**	**0.39**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.00020	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	--	0.004 U	0.004 U	**0.0017 B**
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	--	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**25.4**	**24.1**	**25**	**24**	**25**	**25**	**26**	**24**	**25**	**26**	--	**24**	**24**	**22**
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	< 0.0012	< 0.0012	**0.0026 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0074 B**	**0.0085 B**	--	**0.0085 B**	**0.0077 B**	**0.0087 B**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	**0.0067 J**	**0.0036 J**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0016 B**	--	0.02 U	0.02 U	0.02 U
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.009 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	**0.013**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	--	0.01 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0100	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	--	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**17.1**	**14.5**	**16**	**15**	**16**	**15**	**16**	**15**	**16**	**16**	--	**16**	**16**	**15**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	**0.00012 B**	0.0002 U	--	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	< 0.0023	**0.0025 J**	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.0200	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	--	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	5 U	**3.36**	**3.7**	**3.8**	**3.9**	**3.4**	**3.6**	**4**	**3.7**	**4**	--	**3.8**	**3.6**	**3.9**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.01**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**37.3**	**36.9**	**34**	**36**	**37**	**36**	**36**	**37**	**39**	**40**	--	**37**	**39**	**41**
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1	< 1	< 1	< 1	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 UWN	0.002 UWN	--	0.002 U	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-306S	MW-306S	MW-306S	MW-306S	MW-306S	MW-306S	MW-306S	MW-306S	MW-306S	MW-306S	MW-306S	MW-306S	MW-306S	MW-306S	MW-306S	MW-306S	MW-306S	MW-306S	MW-306S
		Sample Date	2/14/2007	2/8/2006	1/12/2006	7/22/2005	7/22/2005 DUP	1/20/2005	1/20/2005 DUP	7/15/2004	7/15/2004 DUP	1/22/2004	1/22/2004 DUP	7/18/2003	7/18/2003 DUP	1/15/2003	1/15/2003 DUP	7/10/2002	1/15/2002	7/11/2001	1/22/2001
		Unit	Post-ISCO			Pre-ISCO															
Field Parameters																					
Conductivity	*	mS/cm	1.065	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	2.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
pH	*	mV	6.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	SU	96.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	18.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	1.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																					
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	0.143	0.1 U	0.1 U	0.13	0.13	0.063	0.081	0.086	0.054	0.04 U	0.05	0.051	0.062	--	0.54 N	1.9	2.5 N
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	1.71	1.47	1.44	2	2.1	2.1	2.1	2.2	2.2	1.5	1.6	1.4	1.4	--	2.6	6.2 N	7.8
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																					
Acetone	4,000	µg/L	< 50	--	140 U	50 U	50 U	120 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	5	µg/L	< 5	--	14 U	2.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.11 J**	1.0 U	1.0 U
Carbon Disulfide	4,000	µg/L	< 5	--	14 U	2.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	< 5	--	14 U	2.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	µg/L	< 5	9.1 U	25 U	10 U	10 U	25 U	5.0 U	5.0 U	5.0 U	50 U	50 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	< 5	--	14 U	2.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	5	µg/L	< 5	--	14 U	2.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.82 J**	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5	--	29 U	4.0 U	4.0 U	10 U	2.0 U	2.0 U	2.0 U	20 U	20 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds																					
2-Methylnaphthalene	*	µg/L	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	< 10	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	µg/L	< 10	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 10	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	**0.36 J**	**0.53 J**
Benz(a)anthracene	0.1	µg/L	< 0.05	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 10	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 10	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.05	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 10	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	**0.61 J**	**0.84 J**
Fluorene	1,000	µg/L	< 10	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 10	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	< 10	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	**1.4 J**	**2.5 J**
Pyrene	1,000	µg/L	< 10	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds																					
Aluminum (fume or dust)	*	mg/L	--	--	**1.99**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.20 U	0.20 U	--	**0.061 BN**	0.2 U	**0.033 B**
Antimony	0.01	mg/L	< 0.02	--	0.01 U	0.006 U	0.006 U	0.02 U	0.02 U	0.006 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.020 U	0.020 U	--	0.020 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.05	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	--	0.010 U	0.01 U	0.01 U
Barium	2	mg/L	**0.119**	--	0.2 U	**0.129**	**0.133**	**0.13**	**0.13**	**0.17**	**0.16**	**0.17**	**0.17**	**0.17**	**0.17**	**0.23**	**0.23**	--	**0.20**	**0.22**	**0.23**
Beryllium	0.004	mg/L	< 0.010	--	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.0040 U	--	0.0040 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	< 0.005	--	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.0050 U	--	0.0050 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	**124**	**136**	**141**	**130**	**130**	**160**	**150**	**170**	**170**	**190**	**160**	**160**	**160**	--	**140**	**150**	**160**
Chromium	0.1	mg/L	< 0.010	--	0.005 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 UJ	0.010 U	0.010 U	--	0.010 U	0.01 UN	0.01 U
Cobalt	*	mg/L	--	--	0.007 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0023 B**	**0.0025 B**	--	**0.0036 B**	**0.0063 B**	**0.0067 B**
Copper	1.3	mg/L	< 0.010	--	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0018 U	**0.0026 B**	--	**0.0013 B**	0.02 UN	**0.0014 B**
Cyanide	0.2	mg/L	< 0.010	--	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.015 U	0.010 U	--	0.010 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.010	--	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.0050 U	--	0.0050 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	**38.4**	**39.8**	**41.3**	**39**	**39**	**48**	**47**	**52**	**51**	**52**	**52**	**48**	**48**	--	**44**	**47**	**47**
Mercury	0.002	mg/L	< 0.0002	--	0.0002 UJ	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 UJ	0.0002 UJ	**0.00011 B**	**0.000096 B**	--	0.00020 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	< 0.02	--	0.04 U	**0.0442**	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	**0.044**	**0.043**	--	**0.022 B**	0.04 U	**0.0061 B**
Potassium	*	mg/L	--	--	**20.9**	**21.8**	**22.9**	**20**	**20**	**25**	**24**	**25**	**25**	**34**	**34**	**22**	**22**	--	**20**	**23**	**21**
Selenium	0.05	mg/L	< 0.02	--	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	--	0.010 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	**64.3**	**74.3**	**76.7**	**75**	**77**	**90**	**89**	**83**	**80**	**90**	**88**	**48**	**48**	--	**63**	**52**	**54**
Thallium	0.002	mg/L	< 1	--	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.0020 UJ	0.0020 UWN	--	0.0020 U	0.002 U	0.002 UW
Vanadium (fume or dust)	0.2	mg/L	< 0.010	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0031 B**	**0.0030 B**	--	0.010 U	0.01 U	0.01 U
Zinc	2	mg/L	< 0.02	--	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.03**	**0.03**	**0.0092 B**	**0.0088 B**	--	**0.0085 B**	**0.0097 B**	**0.013 B**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D	MW-306D
		Sample Date	1/23/2018	7/25/2017	1/24/2017	7/26/2016	1/19/2016	7/28/2015	1/13/2015	7/14/2014	1/7/2014	7/9/2013	1/8/2013	7/24/2012	1/17/2012	7/5/2011	1/18/2011	7/20/2010	1/6/2010	7/21/2009	01/19/2009	07/22/2008	1/8/2008	7/10/2007	2/15/2007	02/07 DUP	7/11/2006	2/8/2006	1/12/2006	7/22/2005	1/20/2005	7/15/2004	1/22/2004	7/19/2003	1/15/2003	7/9/2002	1/15/2002	7/11/2001	1/22/2001
		Unit	Post-ISCO																										Pre-ISCO									
Field Parameters																																						
Conductivity	*	mS/cm	1.401	0.902	1.36	0.812	1.555	693	0.635	0.653	0.804	1.480	1.429	1.521	1.215	1.107	0.656	0.678	1.572	1.395	1.430	0.925	0.798	0.620	0.685	0.685	0.543	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.3	0.24	0.38	0.23	0.29	0.41	0.21	1.82	0.22	0.17	3.71	1.70	0.32	0.28	0.45	6.8	0.32	6.18	0.27	0.73	0.28	0.24	0.28	0.28	2.63	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	-8.2	24.2	-42.5	57.2	1.9	16	10.7	28	-7.7	-14.3	-51.0	-5.9	97.0	-11.5	226	-6.7	-29.2	-53.4	-43.6	-14.8	10.6	36.2	-8.9	-8.9	45	--	--	--	--	--	--	--	--	--	--	--	--
pH	*	SU	6.09	6.07	6.22	5.7	6.22	6.14	5.94	6.06	6.24	6.07	6.41	5.76	4.07	6.15	5.71	6.89	6.15	8.12	6.11	6.19	6.00	6.13	6.15	6.15	5.98	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	21.4	22.28	19.5	22.55	19.58	26	19.1	21.37	20.04	22.36	20.71	21.64	20.15	25.84	19.24	25.41	18.62	21.99	19.78	22.07	21.81	22.03	19.62	19.62	21.34	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	0.28	0.39	1.13	0.9	0.78	2.19	3.61	2.85	1.24	3.15	1.90	1.66	0.92	0.62	8	4.17	0.88	0.62	0	1.2	2.10	0.00	0.21	0.21	0.01	--	--	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																																						
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.59	8.94	7.3	4.3	7.2	6.7	28	28	24 N	25	23 N
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0002 U	--	1.56	1.52	1.6	1.5	1.6	1.2	2.5	2.5	2.3	2.5 N	2.5
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																																						
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	< 100	< 50	< 50	< 50 R	< 50	50 U	--	20 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	**0.56 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	--	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	--	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	--	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5 U	< 5	5 U	1.0 U	5.4 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	5 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds																																						
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.19	< 0.23	< 0.10	< 0.14	< 0.096	< 0.19	< 0.19	< 0.19	< 0.21 *	< 0.19	< 10	< 10	< 10	< 10	< 10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	**0.36 J**	**0.43 J**	**0.36 J**	**0.55 J**	**0.91 J**
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.19	< 0.23	< 0.10	< 0.14	< 0.096	< 0.19	< 0.19	< 0.19	< 0.21 *	< 0.19	< 10	< 10	< 10	< 10	< 10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.23	< 0.10	< 0.14	< 0.096	< 0.19	< 0.19	< 0.19	< 0.21 *	**0.032 J**	< 10	< 10	< 10	< 10	< 10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	**0.38 J**
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.23	< 0.10	< 0.14	< 0.096	< 0.19	< 0.19	< 0.19	< 0.21	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05	0.05 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.23	< 0.10	< 0.14	< 0.096	< 0.19	< 0.19	< 0.19	< 0.21	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05	0.05 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.23	< 0.10	< 0.14	< 0.096	< 0.19	< 0.19	< 0.19	< 0.21	< 0.19	< 0.10	< 0.1	< 0.1	< 0.1	0.1 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.23	< 0.10	< 0.14	< 0.096	< 0.19	< 0.19	< 0.19	< 0.21	< 0.19	< 10	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.23	< 0.10	< 0.14	< 0.096	< 0.19	< 0.19	< 0.19	< 0.21 *	< 0.19	< 10	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.23	< 0.047	< 0.062	< 0.043	< 0.19	< 0.19	< 0.19	< 0.21	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05	0.05 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.23	< 0.10	< 0.14	< 0.096	< 0.19	< 0.19	< 0.19	< 0.21	< 0.19	< 0.10	< 0.1	< 0.1	< 0.1	0.1 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	**0.3 J**	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.23	< 0.10	< 0.14	< 0.096	< 0.19	< 0.19	< 0.19	**0.044 J***	< 0.19	< 10	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.23	< 0.10	< 0.14	< 0.096	< 0.19	< 0.19	< 0.19	< 0.21 *	< 0.19	< 10	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	**0.81 J**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.23	< 0.10	< 0.14	< 0.096	< 0.19	< 0.19	< 0.19	< 0.21	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05	0.05 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.19	**4.1**	< 0.10	< 0.14	< 0.096	< 0.19	< 0.19	< 0.19	**0.034 J**	< 0.19	< 10	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.50	< 0.050	< 0.050	< 0.050	< 0.19	< 0.23	< 0.10	< 0.14	< 0.096	< 0.19	< 0.19	< 0.19	< 0.21 *	< 0.19	< 10	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	**1.2 J**
Pyrene	1,000	µg/L	**0.076**	**0.054**	**0.066**	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	**0.075**	**0.060**	< 0.19	< 0.23	< 0.10	< 0.14	< 0.096	< 0.19	< 0.19	< 0.19	**0.043 J**	**0.035 J**	< 10	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds																																						
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.20 U	0.2 U	**0.043 BN**	0.2 U	0.2 U
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U	--	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	<0.0500	< 0.05	< 0.05	< 0.05	0.05 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0034 B**	0.01 U	0.010 U	**0.0036 B**	0.01 U
Barium	2	mg/L	**0.67**	**0.471**	**0.654**	**0.481**	**0.887**	**0.403**	**0.377**	**0.435**	**0.424**	**0.785**	**0.69**	**0.71**	**0.61**	**0.53**	**0.37**	**0.39**	**0.73**	**0.63**	**0.74**	**0.46**	**0.464**	**0.370**	**0.363**	**0.363**	**0.373**	--	**0.372**	**0.363**	**0.41**	**0.39**	**0.36**	**0.25**	**0.42**	**0.37**	**0.36**	**0.36**	**0.35**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.00020	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010	< 0.010	0.01 U	--	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.004 U	0.0040 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	0.005 U	--	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	0.0050 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**37.4**	**41.6**	**39**	**37**	**39**	**30**	**51**	**50**	**46**	**50**	**48**
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0016 J**	< 0.0012	< 0.0012	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	< 0.010	0.01 U	--	0.005 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.010 U	0.01 UN	0.01 U
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.007 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0018 B**	0.01 U	0.010 U	0.01 U	0.01 U
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	**0.0023 J**	< 0.0019	< 0.0019	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	< 0.010	< 0.010	< 0.010	0.01 U	--	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.020 U	0.02 U	0.020 U	0.02 UN	**0.0017 B**
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	**0.0083 J**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.01 U	--	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.010 U	0.01 U	0.010 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0100	< 0.010	< 0.010	< 0.010	0.01 U	--	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	0.0050 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**37.8**	**37.3**	**36**	**34**	**35**	**27**	**38**	**37**	**34**	**37**	**35**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.0002	--	--	0.0002 UJ	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U	0.00020 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	**0.0029 J**	**0.0029 J**	**0.0029 J**	< 0.040	< 0.040	< 0.040	< 0.040	**0.0026 J**	< 0.0200	< 0.02	< 0.02	< 0.02	0.02 U	--	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.040 U	**0.0065 B**	0.040 U	0.04 U	0.04 U
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	**3.27**	**3.8**	**2.8**	**3.4**	**3**	**3.8**	**4**	**4.0**	**4.4**	**4.3**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02	< 0.02	0.02 U	--	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.01**	0.010 U	0.01 U	0.010 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**45.5**	**47.1**	**42**	**34**	**34**	**30**	**77**	**72**	**79**	**85**	**82**
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1	< 1	0.001 U	--	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.0020 UWN	0.002 UWN	0.0020 U	0.002 UW	0.002 UW
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	< 0.010	0.01 U	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.010 U	0.01 U	0.01 U
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0323**	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	**0.011 J**	< 0.0087	< 0.0087	**0.0096 J**	< 0.020	< 0.020	**0.012 J**	< 0.020	< 0.0200	< 0.02	< 0.02	< 0.02	0.02 U	--	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03	0.020 U	**0.0076 B**	0.020 U	0.02 U	0.02 U

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
**Bold and shaded - Analyte concentration exce

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP	MW-306SAP
		Sample Date	1/23/2018	7/25/2017	1/24/2017	7/26/2016	1/19/2016	7/28/2015	1/14/2015	7/15/2014	1/7/2014	7/9/2013	1/8/2013	7/24/2012	1/17/2012	7/6/2011	1/18-19/2011	1/6/2010	7/21/2009	1/19/2009	7/22/2008	1/22/2004	1/16/2003	7/10/2002	1/16/2002	7/11/2001	1/24/2001
		Unit	Post-ISCO																			Pre-ISCO					
Field Parameters																											
Conductivity	*	mS/cm	1.453	1.458	1.521	1.503	1.614	1459	1.390	1.375	1.493	1.431	1.330	1.268	1.268	1.497	1.172	0.899	1.617	1.319	1.62	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	3.41	2.25	2.2	1.54	3.51	0.65	1.21	4.87	5.23	5.53	--	4.75	4.75	4.20	5.69	9.89	6.26	2.5	0.78	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	37.4	17.5	-9.9	29.9	8.1	-28.1	-23.2	-3.6	-38.8	25.3	-34.0	128.7	128.7	2.0	5.31	-12.1	-71.9	6.03	1.5	--	--	--	--	--	--
pH	*	SU	6.07	6.07	6.1	5.88	6.17	6.06	6.06	6.43	6.47	6.10	6.44	3.84	3.84	6.34	220.0	6.29	6.6	11.7	6.15	--	--	--	--	--	--
Temperature	*	Celsius	19.93	24.92	19.15	23.76	18.37	25.9	15.40	25.72	16.77	21.87	19.92	15.83	15.83	24.26	15.19	13.66	30.52	16.04	25.77	--	--	--	--	--	--
Turbidity	*	NTU	4.67	5.53	8.49	2.85	56.2	8.55	12.80	33.3	28.6	90.4	18.00	20.9	20.9	22.9	21	NM	9.8	9.83	9.39	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																											
Carbon Dioxide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.1	18	16	10	17	16
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	3.9	3.8	4.9	4.0 N	4.0
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																											
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	2,500 U	**25**	25 U	25 U	**18 J**	25 U
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	0.57 J	< 5.0	< 5.0	< 5.0	< 5.0	**2,100**	**0.16 J**	1.0 U	1.0 U	**0.17 J**	**0.22 J**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	100 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	**290**	**0.11 J**	**0.29 J**	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	**2.8 J B**	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	500 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	100 U	**4.0 J**	1.0 U	1.0 U	**0.29 J**	1.0 U
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	100 U	**0.2 J**	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	200 U	**0.13 J**	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds																											
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**--**	**44**	10 U	10 U	14 U	10 U	10 U
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.22	< 0.20	< 0.096	< 0.099	< 0.10	< 0.19	< 0.20	**0.041 J***	**0.038 J**	**19**	10 U	**0.32 J**	14 U	10 U	**0.27 J**
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.22	< 0.20	< 0.096	< 0.099	< 0.10	< 0.19	< 0.20	< 0.19 *	< 0.19	**0.21**	10 U	10 U	14 U	10 U	10 U
Anthracene	10	µg/L	< 0.05	< 0.05	**0.055**	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.20	< 0.096	< 0.099	< 0.10	< 0.19	< 0.20	< 0.19 *	< 0.19	**0.28**	10 U	10 U	14 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.20	< 0.096	< 0.099	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	0.2 U	10 U	10 U	14 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.20	< 0.096	< 0.099	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	0.2 U	10 U	10 U	14 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.22	< 0.20	< 0.096	< 0.099	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	0.2 U	10 U	10 U	14 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.22	< 0.20	< 0.096	**0.38**	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	0.2 U	10 U	10 U	14 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.20	< 0.096	< 0.099	< 0.10	< 0.19	< 0.20	< 0.19 *	< 0.19	0.2 U	10 U	10 U	14 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.20	< 0.043	< 0.045	< 0.045	< 0.19	< 0.20	< 0.19	< 0.19	0.2 U	10 U	10 U	14 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.22	< 0.20	< 0.096	< 0.099	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	0.2 U	10 U	10 U	14 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2.5**	10 U	10 U	14 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.22	< 0.20	< 0.096	< 0.099	< 0.10	< 0.19	< 0.20	**0.023 J***	< 0.19	0.2 U	10 U	10 U	14 U	10 U	10 U
Fluorene	1,000	µg/L	< 0.1	< 0.1	**0.2**	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.22	< 0.20	< 0.096	< 0.099	< 0.10	< 0.19	< 0.20	< 0.19 *	< 0.19	**2.3**	10 U	10 U	14 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.20	< 0.096	**0.23**	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	0.2 U	10 U	10 U	14 U	10 U	10 U
Naphthalene	20	µg/L	< 0.5	< 0.5	**0.73**	< 0.5	< 0.5	< 0.5	**0.66**	< 0.50	< 0.50	< 0.50	< 0.22	< 0.20	**0.18 J**	< 0.099	**0.14 J**	< 0.19	< 0.20	**0.099 J**	**0.083 J**	**390**	10 U	10 U	14 U	10 U	10 U
Phenanthrene	10	µg/L	< 0.05	< 0.05	**0.14**	< 0.05	< 0.05	< 0.05	< 0.50	< 0.050	< 0.050	< 0.050	< 0.22	< 0.20	< 0.096	< 0.099	< 0.10	< 0.19	< 0.20	< 0.19 *	< 0.19	**2.2**	10 U	10 U	14 U	10 U	10 U
Pyrene	1,000	µg/L	**0.058**	< 0.05	**0.067**	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.20	< 0.096	< 0.099	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	0.2 U	10 U	10 U	14 U	10 U	10 U
Inorganic Compounds																											
Aluminum (fume or dust)	*	mg/L	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**--**	0.2 U	**3.1**	**0.1 B**	**0.029 B**	0.2 U	**0.71**
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	0.02 U	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.010	< 0.010	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.676**	**0.685**	**0.621**	**0.704**	**0.756**	**0.682**	**0.648**	**0.657**	**0.666**	**0.654**	**0.63**	**0.78**	**0.68**	**0.63**	**0.68**	**0.63**	**0.65**	**0.67**	**0.71**	**0.32**	**0.59**	**0.56**	**0.61**	**0.52**	**0.53**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00029 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	0.004 U	0.0040 U	**0.00054 B**	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.005 U	0.0050 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**27**	**61**	**57**	**69**	**59**	**56**
Chromium	0.1	mg/L	< 0.01	**0.0178**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	**0.42**	**0.0024 J**	**0.0013 J**	**0.0091 J**	< 0.010	< 0.010	**0.0056 J**	< 0.010	0.01 U	**0.034**	0.01 U	0.01 U	0.01 UN	**0.0039 B**
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.01 U	**0.0060 B**	**0.0042 B**	**0.0035 B**	**0.0044 B**	**0.0025 B**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	**0.0026 JB**	< 0.020	< 0.020	< 0.020	< 0.020	0.02 U	**0.0054 B**	0.02 U	0.02 U	0.02 UN	**0.0014 B**
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01 UJ	< 0.01	< 0.01	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.0050	< 0.0050	0.005 U	0.0050 U	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**14**	**35**	**33**	**40**	**34**	**33**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	0.0002 U	0.00020 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	**0.396**	**0.38**	**0.351**	**0.422**	**0.300**	**0.306**	**0.151**	**0.378**	**0.315**	**0.305**	**0.59**	**0.59**	**0.30**	**0.27**	**0.38**	**0.36**	**0.20**	**0.027 J**	**0.034 J**	0.04 U	**0.024 B**	**0.018 B**	**0.032 B**	**0.026 B**	**0.029 B**
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**3.0**	**3.8**	**3.9**	**3.5**	**3.7**	**3.7**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.010	< 0.010	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**25**	**210**	**140**	**120**	**160**	**150**
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.001 U	0.0020 UWN	0.002 UWN	0.002 U	0.002 UW	0.002 UW
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	**0.010**	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	0.01 U	**0.0055 B**	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	**0.0616**	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	**0.099**	< 0.0087	**0.0087 J**	**0.0099 J**	< 0.020	< 0.020	**0.011 J**	< 0.020	**0.051**	**0.0067 B**	**0.009 B**	0.02 U	0.02 U	**0.0076 B**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D	MW-307D
		Sample Date	7/28/2015	1/29/2015	7/15/2014	1/7/2014	7/10/2013	1/8/2013	7/23/2012	1/16/2012	7/6/2011	1/18/2011	7/14/2010	1/7/2010	7/21/2009	1/19/2009	7/16/2008	1/9/2008	7/11/2007	2/14/2007	7/12/2006	1/11/2006	7/22/2005	1/19/2005	7/16/2004	1/23/2004	7/17/2003	1/15/2003	1/03 DUP	7/9/2002	1/16/2002	7/10/2001	1/22/2001
		Unit	Post-ISCO																				Pre-ISCO								
Field Parameters																															
Conductivity	*	mS/cm	502	0.457	0.55	0.546	0.446	0.536	0.392	0.498	0.498	0.457	0.490	0.411	0.487	0.534	0.574	0.622	0.456	0.563	0.505	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.3	2.64	0.34	0.13	0.12	0.31	0.40	1.91	2.02	0.67	0.29	1.2	0.25	0.27	0.3	0.21	0.22	0.25	0.33	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	-42.3	1.9	-70.6	-57.0	-30.3	-30.2	-25.6	-74.6	-43.1	-53.7	-56.8	-0.6	-29.9	-64.6	-88.8	-74.4	-67.4	-84.5	-65.1	--	--	--	--	--	--	--	--	--	--	--	--
pH	*	SU	6.38	6.43	6.58	6.47	6.76	6.47	6.25	6.36	6.58	6.57	6.24	6.01	6.38	6.26	6.21	6.25	6.33	6.42	6.41	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	26.3	19.53	22.36	19.99	22.26	19.98	23.40	20.27	21.22	18.21	22.02	17.98	20.74	19.7	21.17	20.40	22.15	19.14	22.83	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	8.85	4.28	1.87	4.91	2.82	0.72	5.02	9.70	1.81	3.34	9.7	3.57	4.9	7.76	3.87	4.90	4.8	1.43	1.41	--	--	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																															
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17.2	16.8	15	15	28	2.3	1.7	3.6	1.5	1.8	1.7	0.31 N
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.499	0.616	0.62	0.68	1.2	0.33	0.21	2.0	0.17	0.27	0.37	0.49
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																																	
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	<100	< 5.0	< 5.0	< 5.0	< 5.0	**7.5 J**	< 100	< 100	< 100	< 100	< 50	< 50	< 50	50 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	< 0.25	< 0.25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.16 J**	1.0 U	1.0 U	1.0 U
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.18 J**	1.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.17 J**
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	**3.3 J B**	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	**3.2**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	0.002 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds																																	
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	<0.20	< 0.098	< 0.11	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 19 *	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	< 0.098	< 0.11	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 19 *	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 0.05	< 0.050	**0.057**	< 0.050	< 0.050	<0.20	< 0.098	< 0.11	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 19 *	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.20	< 0.098	< 0.11	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.20	< 0.098	< 0.11	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.20	< 0.098	< 0.11	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 19	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.20	< 0.098	< 0.11	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.20	< 0.098	< 0.11	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 19 *	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.20	< 0.044	< 0.050	< 0.049	< 0.049	< 0.19	< 0.19	< 0.19	< 19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.20	< 0.098	< 0.11	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 19	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.20	< 0.098	< 0.11	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 19 *	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.20	< 0.098	< 0.11	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 19 *	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.20	< 0.098	< 0.11	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	<0.20	< 0.098	< 0.11	< 0.11	< 0.11	**0.35**	< 0.19	< 0.19	< 19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**11**	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.20	< 0.098	< 0.11	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 19 *	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	**0.056**	**0.079**	< 0.050	**0.065**	< 0.050	<0.20	< 0.098	< 0.11	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds																																	
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.048 B**	**0.11 B**	0.2 U	**0.11 B**	**2.1**	0.2 U
Antimony	0.01	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.020 U	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	<0.0500	< 0.05	< 0.05	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.082**	**0.0712**	**0.258**	**0.0751**	**0.0638**	**0.29**	**0.061**	**0.068**	**0.064**	**0.061**	**0.065**	**0.062**	**0.065**	**0.069**	**0.072**	**0.147**	**0.0767**	**0.112**	**0.112**	0.2 U	**0.126**	**0.1**	**0.098**	**0.15**	**0.07**	**0.065**	**0.14**	**0.068**	**0.12**	**0.1**	**0.1**
Beryllium	0.004	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.0040 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.02 U	0.005 U	0.0050 U	0.0050 U	**0.00091 B**	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**40**	**44.6**	**33**	**35**	**49**	**28**	**24**	**70**	**21**	**31**	**30**	**30**
Chromium	0.1	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.0012	< 0.0012	< 0.0012	< 0.0012	**0.0030 J**	< 0.010	< 0.010	**0.0015 J**	**0.0016 J**	**0.0178**	< 0.010	< 0.010	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.010 U	**0.010**	0.01 U	**0.004 B**	**0.0034 B**	0.01 U
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0028 B**	**0.0059 B**	**0.0024 B**	**0.002 B**	**0.0023 B**	**0.0016 B**
Copper	1.3	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	**0.0165**	< 0.010	< 0.010	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0011 B**	**0.0010 B**	**0.0012 B**	0.02 U	**0.0021 B**	0.02 U
Cyanide	0.2	mg/L	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	**0.0089 J**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.010 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	**0.0184**	< 0.010	< 0.010	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.0050 U	0.005 U	0.005 U	**0.0015 B**	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**11.5**	**26.2**	**22**	**23**	**19**	**23**	**19**	**43**	**18**	**25**	**22**	**23**
Mercury	0.002	mg/L	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	**0.102**	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 UJ	0.00020 U	0.00020 U	0.0002 U	0.0002 U	0.00020 U	0.00020 U
Nickel	0.1	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	**0.0049 J**	**0.0059 J**	**0.0045 J**	< 0.0023	**0.0093 J**	< 0.040	< 0.040	**0.0030 J**	< 0.040	< 0.0200	< 0.02	< 0.02	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	**0.21**	**0.11**	**0.0083 B**	**0.1**	**0.11**	**0.0064 B**	**0.0067 B**
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**19.8**	**6.01**	**2.8**	**2.2**	**11**	**0.8**	**0.62 B**	**3.0**	**0.73 B**	**1**	**1.2**	**1.1**
Selenium	0.05	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.0064	< 0.0064	**0.0073 J**	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**34.5**	**85.6**	**62**	**54**	**49**	**54**	**51**	**140**	**60**	**78**	**62**	**62**
Thallium	0.002	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.0020 UWN	0.0020 UWN	0.002 UWN	0.002 U	0.002 U	0.002 UW
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	**0.0172**	< 0.010	< 0.010	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.01 U	0.01 U	**0.0055 B**	0.01 U
Zinc	2	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.0087	< 0.0087	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	**0.0554**	< 0.02	< 0.02	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.020 U	0.020 U	0.02 U	0.02 U	**0.0059 B**	0.02 U

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP	MW-307SAP
		Sample Date	7/28/2015	1/13/2015	7/15/2014	1/7/2014	7/10/2013	1/9/2013	7/24/2012	1/16/2012	7/6/2011	1/18-20/2011	1/7/2010	7/21/2009	1/15/2009	7/16/2008	1/9/2008	7/12/2006	1/11/2006	7/22/2005	1/19/2005	7/16/2004	1/23/2004	7/17/2003	7/9/2002	1/16/2002	7/10/2001	1/22/2001
		Unit	Post-ISCO																	Pre-ISCO							
Field Parameters																											
Conductivity	*	mS/cm	571	0.564	0.616	0.673	0.632	0.525	0.617	0.580	0.728	--	0.67	0.78	0.768	0.742	0.769	0.937	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.49	0.37	0.48	6.09	0.34	8.33	10.52	0.88	0.27	--	3.93	0.7	0.85	1	1.13	0.56	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	-14.4	34.3	-13.4	-8.0	28.7	-10.9	7.2	-0.5	55.2	--	19.1	87.9	138.9	79.4	147.2	14.8	--	--	--	--	--	--	--	--	--	--
pH	*	SU	6.57	6.06	6.46	7.02	6.44	6.73	6.69	6.39	6.35	--	6.2	6.29	6.05	6.14	6.06	6.22	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	27.7	17.6	23.9	15.61	22.58	16.89	28.44	18.17	28.54	--	17.23	21.83	15.7	22.43	19.81	22.59	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	1.22	0.39	0.47	3.33	0.58	2.23	26.1	1.17	0.65	--	4.01	4.5	0.35	1.08	2.10	0.47	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																											
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.37	2.75	3	3.3	4.4	3	3.3	4.3	3.4	4.1
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.37	1.37	1.6	1.8	2	2.1	2	2.1	2.7	3.3
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																												
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	< 50	50 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	5	µg/L	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	0.55 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.9**	**0.16 J**	**0.34 JB**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.9 J**	1.0 U	1.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.34 J**	1.0 U	1.0 U
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	**2.9 J B**	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	1.0 U	1.0 U	1.0 U	**1.2**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.18 J**	2.0 U	2.0 U
Semivolatile Organic Compounds																												
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	**--**	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	< 0.20	< 0.19	< 0.20	< 0.19	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	**0.25 J**	10 U	10 U
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.19	< 0.19	< 0.11	**0.16 J**	< 0.10	**0.48**	< 0.19	< 0.20	< 0.19	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 0.05	< 0.050	**0.054**	< 0.050	< 0.050	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	**0.29**	< 0.19	< 0.20	< 0.19	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	**0.63**	< 0.19	< 0.20	< 0.19	< 0.050	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.11	**1.0**	< 0.10	**0.52**	< 0.19	< 0.20	< 0.19	< 0.050	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	**0.27**	< 0.19	< 0.20	< 0.19	< 0.10	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.11	**0.82**	< 0.10	**0.23**	< 0.19	< 0.20	< 0.19	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.11	**0.40**	< 0.10	**0.31**	< 0.19	< 0.20	< 0.19	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.049	< 0.050	< 0.045	**0.49**	< 0.19	< 0.20	< 0.19	< 0.050	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	< 0.20	< 0.19	< 0.20	< 0.19	< 0.10	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	< 0.19	--	--	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	**0.88**	< 0.19	< 0.20	< 0.19	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	--	< 0.11	< 0.11	< 0.10	< 0.20	< 0.19	< 0.20	< 0.19	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.11	**0.79**	< 0.10	**0.25**	< 0.19	< 0.20	< 0.19	< 0.050	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.19	< 0.19	< 0.11	**0.11 J**	< 0.10	< 0.20	< 0.19	**0.063 JB**	< 0.19	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	**0.99 J**	10 U	10 U
Phenanthrene	10	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	**1.1**	< 0.19	< 0.20	< 0.19	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	**0.92**	< 0.19	< 0.20	< 0.19	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds																												
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	**--**	--	--	**0.258**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.038 B**	**0.14 B**	**0.065 BN**
Antimony	0.01	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.010	< 0.010	<0.0500	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0032 B**	0.01 U	**0.0039 B**	0.01 U
Barium	2	mg/L	**0.0715**	**0.0649**	**0.071**	**0.0697**	**0.0692**	**0.068**	**0.066**	**0.076**	**0.070**	**0.065**	**0.078**	**0.078**	**0.08**	**0.066**	**0.0731**	**0.0996**	0.2 U	**0.0985**	**0.12**	**0.14**	**0.15**	**0.16**	**0.15**	**0.18**	**0.2**	**0.23**	
Beryllium	0.004	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00021 JB**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.00078 B**	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**45.9**	**53.9**	**57**	**65**	**74**	**74**	**69**	**73**	**110**	**110**	
Chromium	0.1	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	< 0.0012	**0.0047 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	**0.0039 B**	**0.01**	0.01 U	0.01 U
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0059 B**	**0.0062 B**	**0.0066 B**	**0.0075 B**	
Copper	1.3	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	0.0036 JB	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0015 B**	
Cyanide	0.2	mg/L	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	**0.0094 J**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	
Lead	0.015	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0100	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**29.7**	**32.1**	**35**	**39**	**44**	**50**	**43**	**44**	**67**	**70**	
Mercury	0.002	mg/L	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	0.0002 U	0.0002 U	0.0002 UJ	0.0002 U	0.0002 U	0.0002 U	0.0002 UJ	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.00020 U
Nickel	0.1	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	**0.0032 J**	< 0.0023	< 0.0023	< 0.040	< 0.040	**0.0027 J**	**0.0033 J**	< 0.0200	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	**0.011 B**	**0.026 B**	**0.070**	**0.02 B**	
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	**4.43**	**4**	**3.1**	**3.5**	**3.7**	**3.2**	**2.5**	**3.8**	**3.7**	
Selenium	0.05	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.010	< 0.010	< 0.0200	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**104**	**107**	**120**	**140**	**150**	**190**	**130**	**130**	**190**	**180**	
Thallium	0.002	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 UWN	0.002 U	0.002 UW	0.002 U	
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0087	**0.011 J**	**0.0087 J**	< 0.020	< 0.020	< 0.020	**0.0086 J**	< 0.0200	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.02**	**0.0064 B**	**0.0066 B**	**0.0071 B**	**0.0074 B**	

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-309D	MW-309D	MW-309D	MW-309D	MW-309D	MW-309D	MW-309D	MW-309D	MW-309D	MW-309D	MW-309D	MW-309D	MW-309D	MW-309D	MW-309D	MW-309D	MW-309D	MW-309D
		Sample Date	7/21/2009	1/20/2009	7/17/2008	1/9/2008	7/12/2007	2/14/2007	7/12/2006	1/11/2006	7/21/2005	1/20/2005	7/15/2004	1/20/2004	7/16/2003	1/16/2003	7/10/2002	1/15/2002	7/12/2001	1/24/2001
		Unit	Post-ISCO								Pre-ISCO									
Field Parameters																				
Conductivity	*	mS/cm	1.088	0.952	1.254	1.118	1.145	1.187	1.143	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.78	1.36	0.27	0.47	0.41	0.26	0.24	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	-173.9	35.7	-6.0	-21.0	18.5	-16.0	-8.2	--	--	--	--	--	--	--	--	--	--	--
pH	*	SU	6.05	5.26	5.97	6.07	5.99	6.15	6.10	--	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	22.34	14.82	23.69	21.92	22.20	20.96	22.57	--	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	--	4.2	1.17	0.81	0.00	0.73	0.63	--	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																				
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	12.4	11.4	15	15	16	15	18	18	16 N	17	15
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	1.08	0.985	1.1	1.1	1.1	1	1.2	1.1	1.1	1.2	1.1
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																				
Acetone	4,000	µg/L	< 100	< 100	< 100	< 50	< 50	< 50	50 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	5	µg/L	< 5.0	**0.37 J**	**0.42 J**	< 5.0	< 5	< 5	**22**	**6.6**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.14 J**	1.0 U
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	**1.2**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.36 J**
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds																				
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	**0.69**	**0.4**	**0.8**	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	µg/L	**0.27**	**0.14 J**	**0.26**	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 0.19	< 0.19	**0.022 J**	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	< 0.19	**0.034 J**	**0.023 J**	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	**0.29**	**0.14 J**	**0.21**	< 10	< 10	< 10	10 U	**4.2**	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	< 0.19	< 0.19	**0.023 J**	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds																				
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.062 B**	0.2 U	**0.041 BN**	**0.11 B**	**0.048 B**
Antimony	0.01	mg/L	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.020 U	0.02 U	0.020 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.020	< 0.010	< 0.010	<0.0500	< 0.05	< 0.05	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.010 U	0.01 U	0.01 U
Barium	2	mg/L	**0.28**	**0.27**	**0.29**	**0.324**	**0.333**	**0.363**	**0.345**	**0.366**	**0.375**	**0.4**	**0.4**	**0.38**	**0.34**	**0.34**	**0.3**	**0.30**	**0.29**	**0.26**
Beryllium	0.004	mg/L	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.004 U	0.0040 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	0.0050 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	**44.7**	**42.1**	**47**	**44**	**43**	**38**	**41**	**37**	**33**	**37**	**33**
Chromium	0.1	mg/L	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.010 U	0.01 U	0.010 U	0.01 U	0.01 U
Cobalt	*	mg/L	--	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.010 U	0.01 U	0.01 U
Copper	1.3	mg/L	< 0.020	< 0.020	< 0.020	< 0.0100	< 0.010	< 0.010	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.020 U	0.02 U	0.020 U	0.02 U	0.02 U
Cyanide	0.2	mg/L	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.010 U	0.01 U	0.010 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.010	< 0.0050	< 0.0050	< 0.0100	< 0.010	< 0.010	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	**0.0017 B**	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	**38.7**	**35.5**	**40**	**37**	**36**	**34**	**34**	**29**	**27**	**30**	**25**
Mercury	0.002	mg/L	< 0.00020	< 0.00020	**0.0001 J**	< 0.00020	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U	0.00020 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	< 0.040	< 0.040	< 0.040	< 0.0200	< 0.02	< 0.02	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.040 U	0.04 U	0.040 U	0.04 U	0.04 U
Potassium	*	mg/L	--	--	--	--	--	--	--	5 U	**2.89**	**3.9**	**3.5**	**3.4**	**2.6**	**3.3**	**3.3**	**3.0**	**3.2**	**3.2**
Selenium	0.05	mg/L	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.010 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	**116**	**108**	**110**	**100**	**91**	**86**	**86**	**76**	**80**	**77**	**79**
Thallium	0.002	mg/L	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.0020 UWN	0.002 UWN	0.0020 U	0.002 UW	0.002 U
Vanadium (fume or dust)	0.2	mg/L	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.010 U	0.01 U	0.01 U
Zinc	2	mg/L	< 0.020	**0.0088 J**	**0.0089 J**	< 0.0200	< 0.02	< 0.02	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.020 U	0.02 U	0.020 U	0.02 U	0.02 U

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-309SAP	MW-309SAP	MW-309SAP	MW-309SAP	MW-309SAP
		Sample Date	1/16/2003	7/10/2002	1/16/2002	7/12/2001	1/24/2001
		Unit			Pre-ISCO		
Field Parameters							
Conductivity	*	mS/cm	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	--	--	--	--	--
pH	*	SU	--	--	--	--	--
Oxidation Reduction Potential	*	mV	--	--	--	--	--
Temperature	*	Celsius	--	--	--	--	--
Turbidity	*	NTU	--	--	--	--	--
Monitored Natural Attenuation Parameters							
Carbon Dioxide	*	µg/L	--	--	--	--	--
Iron	*	mg/L	6.0	7.2	3.6	8.5	9.7
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--
Manganese, Total	*	mg/L	1.1	1.1	1.5	1.2	1.2
Manganese, Dissolved	*	mg/L	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--
Volatile Organic Compounds							
Acetone	4,000	µg/L	**32**	< 25	< 25	**53**	< 25
Benzene	5	µg/L	**0.17 J**	< 1.0	< 1.0	< 1.0	**0.21 J**
Carbon Disulfide	4,000	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	700	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	**0.38 J**
Toluene	1,000	µg/L	**0.36 J**	**0.37 J**	< 1.0	**0.65 J**	**3.2**
Trichloroethylene	5	µg/L	**0.22 J**	< 1.0	< 1.0	< 1.0	< 1.0
Xylenes, total	2,000	µg/L	< 2.0	< 2.0	< 2.0	< 2.0	**0.57 J**
Semivolatile Organic Compounds							
2-Methylnaphthalene	*	µg/L	< 10	**0.36 J**	< 13	< 10	< 10
Acenaphthene	2,000	µg/L	< 10	< 10	< 13	< 10	< 10
Acenaphthylene	10	µg/L	< 10	< 10	< 13	< 10	< 10
Anthracene	10	µg/L	< 10	< 10	< 13	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 10	< 10	< 13	< 10	< 10
Benzo(a)pyrene	0.2	µg/L	< 10	< 10	< 13	< 10	< 10
Benzo(b)fluoranthene	0.2	µg/L	< 10	< 10	< 13	< 10	< 10
Benzo(g,h,i)perylene	10	µg/L	< 10	< 10	< 13	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 10	< 10	< 13	< 10	< 10
Chrysene	0.2	µg/L	< 10	< 10	< 13	< 10	< 10
Dibenzo(a,h)anthracene	0.3	µg/L	< 10	< 10	< 13	< 10	< 10
Dibenzofuran	1	µg/L	< 10	< 10	< 13	< 10	< 10
Fluoranthene	1,000	µg/L	< 10	< 10	< 13	< 10	< 10
Fluorene	1,000	µg/L	< 10	< 10	< 13	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 10	< 10	< 13	< 10	< 10
Naphthalene	20	µg/L	< 10	**5.3 J**	< 13	< 10	< 10
Phenanthrene	10	µg/L	< 10	< 10	< 13	< 10	< 10
Pyrene	1,000	µg/L	< 10	< 10	< 13	< 10	< 10
Inorganic Compounds							
Aluminum (fume or dust)	*	mg/L	**0.15 B**	**0.032 B**	**0.03 B**	**0.11 B**	**0.54**
Antimony	0.01	mg/L	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02
Arsenic	0.05	mg/L	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Barium	2	mg/L	**0.20**	**0.19**	**0.23**	**0.2**	**0.2**
Beryllium	0.004	mg/L	< 0.0040	< 0.004	< 0.004	< 0.004	< 0.004
Cadmium	0.005	mg/L	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005
Calcium metal	*	mg/L	**17**	**17**	**19**	**19**	**19**
Chromium	0.1	mg/L	< 0.010	< 0.01	< 0.01	< 0.01	**0.0025 B**
Cobalt	*	mg/L	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Copper	1.3	mg/L	< 0.020	< 0.02	< 0.02	< 0.02	**0.002 B**
Cyanide	0.2	mg/L	< 0.010	< 0.01	< 0.01	< 0.01	--
Lead	0.015	mg/L	< 0.0050	**0.0038 B**	< 0.005	< 0.005	< 0.005
Magnesium	*	mg/L	**8.4**	**8.5**	**9.6**	**9.6**	**9.2**
Mercury	0.002	mg/L	< 0.00020	< 0.0002	< 0.0002	< 0.0002	< 0.00020
Nickel	0.1	mg/L	**0.020 B**	**0.021 B**	**0.035 B**	**0.031 B**	**0.031 B**
Potassium	*	mg/L	**2.0**	**2.2**	**2.2**	**2.2**	**2.2**
Selenium	0.05	mg/L	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Sodium	*	mg/L	**39**	**37**	**42**	**40**	**36**
Thallium	0.002	mg/L	< 0.0020 WN	< 0.002WN	< 0.002	< 0.002W	< 0.002
Vanadium (fume or dust)	0.2	mg/L	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	2	mg/L	**0.0071 B**	**0.011 B**	**0.0085 B**	< 0.02	**0.0094 B**

Notes:
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Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP	MW-310SAP
		Sample Date	1/24/2018	7/27/2017	1/26/2017	7/27/2016	1/20/2016	7/28/2015	1/13/2015	7/16/2014	1/14/2014	7/9/2013	1/9/2013	7/24/2012	1/24/2012	7/6/2011	1/17/2011	7/15/2010	1/6/2010	7/21/2009	1/14/2009	7/22/2008	1/10/2008	7/10/2007	2/15/2007	7/11/2006	2/8/2006	1/14/2006	7/20/2005	1/20/2005	7/15/2004	1/22/2004	7/16/2003	1/15/2002	7/12/2001	1/23/2001
		Unit	Post-ISCO																								Pre-ISCO							
Field Parameters																																		
Conductivity	*	mS/cm	0.445	0.41	0.411	0.424	0.489	453.9	0.458	0.464	0.432	0.517	--	0.533	0.451	0.509	0.366	0.427	0.319	0.423	0.402	0.496	0.516	0.417	0.426	0.47	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.34	0.43	0.6	0.34	0.45	0.44	0.33	1.78	1.34	1.96	--	2.94	5.81	1.07	1.99	3.05	2.92	1.45	1.32	1.85	0.59	0.64	0.81	0.22	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	-33.2	119.3	132.4	95.1	202.2	162.7	174.7	166.1	182.7	-12.8	--	140.0	115.4	145.6	213.4	-48.4	43.3	133.9	143.1	110.2	188.9	194.7	162.1	163.4	--	--	--	--	--	--	--	--	--	--
pH	*	SU	7.2	5.58	5.65	6.38	5.88	5.85	5.61	5.69	5.93	6.00	--	5.80	6.01	5.79	5.8	6.24	5.84	5.83	5.98	6.3	5.87	5.67	6.13	6.14	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	17.83	22.86	19.95	24.25	16.39	28	16.5	23.29	17.45	20.61	--	26.80	21.16	28.94	13.38	25.06	13.62	24.02	18.89	24.04	19.17	24.49	15.24	24.08	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	0.25	0.36	0.29	0.31	0.48	1.41	0.77	0.69	4.65	7.61	--	1	1.54	1.71	1.42	9.3	1.62	4	3.83	2.12	3.00	1.57	1.61	2.09	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																																		
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	--	61.1	132	122	118	70	73	1,200 B *	940 * B	740 *	730 B	800	940 *	570	--	< 1000	< 1000	--	770	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.637	--	1.02	0.1 U	0.074	0.05 U	0.058	0.04 U	0.043 BN	0.04 B	0.15
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	--	< 1.0	< 0.100	<0.100	<0.100	< 0.10 HF	< 0.10 HF	< 0.025 HF	< 0.025 HF	< 0.025 HF	< 0.10 HF	< 0.10 HF	< 0.10 HF	< 0.10 HF	< 0.10	< 0.1	< 0.1	0.1 U	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.286	--	0.247	0.254	0.23	0.21	0.19	0.19	0.25	0.31	0.39
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.244	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	--	< 4	< 4	<4	< 4	0.62	< 0.58	< 0.29	0.36 J	0.28	0.26	0.43	0.37	0.38	--	0.34	1.1	0.77	0.99	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	--	9.8	10	10	10.0	10 H	11 E	9.9	11	46	44	48	41	10	--	13	9.8	9.3	8	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	7.96 H	8.26 H	6.99 H	8.68 H	5.2	7.0	2.1	1.6	1.5	1.6	1.4	1.2	1.3	--	2.1	6.4	3.3	2.6	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	24	19	25	23	19	22	20	21	20	21	15	17	17	--	29	22	19	17	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2 U	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																																				
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	**16 J**	< 100	< 100	< 100	< 100	< 50	< 50	< 50	50 U	--	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	**22 J**	
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**0.58 J**	< 0.25	< 0.25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.12 J**	1.0 U
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.35 J**	1.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	**0.13 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	**3.0 J**	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	--	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	--	1.0 U	**1.6**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	--	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds																																				
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	<0.23	< 0.19	< 0.098	< 0.098	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.23	< 0.19	< 0.098	< 0.098	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.23	< 0.19	< 0.098	< 0.098	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.23	< 0.19	< 0.098	< 0.098	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.23	< 0.19	< 0.098	< 0.098	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.23	< 0.19	< 0.098	< 0.098	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.23	< 0.19	< 0.098	< 0.098	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.23	< 0.19	< 0.098	< 0.098	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.23	< 0.19	< 0.044	< 0.044	< 0.047	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.23	< 0.19	< 0.098	< 0.098	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.23	< 0.19	< 0.098	< 0.098	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.23	< 0.19	< 0.098	< 0.098	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.23	< 0.19	< 0.098	< 0.098	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 500	**0.53**	**0.68**	< 0.50	<0.23	< 0.19	**0.11 J**	< 0.098	< 0.10	**1.1**	< 0.20	< 0.19	< 0.19	**0.050 J**	< 10	< 10	< 10	10 U	0.0002 U	**0.25**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	**0.05**	<0.50	< 0.050	<0.23	< 0.19	< 0.098	< 0.098	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.23	< 0.19	< 0.098	< 0.098	< 0.10	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--
Inorganic Compounds																																				
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.451**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.070 BN**	**0.035 B**	**0.047 BN**	
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	**0.0055 J**	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	0.02 U	--	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U	
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	**0.0063 J**	< 0.010	<0.0500	< 0.05	< 0.05	0.05 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	
Barium	2	mg/L	**0.089**	**0.0724**	**0.0639**	**0.0773**	**0.0817**	**0.0801**	**0.0749**	**0.0696**	**0.0747**	**0.0823**	**0.078**	**0.081**	**0.074**	**0.074**	**0.080**	**0.065**	**0.072**	**0.065**	**0.07**	**0.074**	**0.0759**	**0.0761**	**0.0656**	**0.0699**	--	0.2 U	**0.0583**	**0.066**	**0.061**	**0.059**	**0.05**	**0.051**	**0.054**	**0.05**		
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.00020	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010	0.01 U	--	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.004 U	0.004 U	
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	0.005 U	--	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	0.005 U	
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**11.8**	**12.4**	**12**	**12**	**12**	**11**	**11**	**12**	**13**	
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	**0.0112**	< 0.01	< 0.01	**0.0117**	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	< 0.0012	**0.0014 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	0.01 U	--	**0.006**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.010 U	0.01 U	0.01 U	
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	**0.0030 J**	< 0.0019	< 0.0019	**0.0024 J**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	**0.0149**	< 0.010	0.01 U	--	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0019 B**	**0.0015 B**	**0.0029 B**	
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	**0.0065 J**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.010 U	0.01 U	--
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	**0.0024 J**	< 0.0050	< 0.0100	< 0.010	< 0.010	0.01 U	--	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	0.005 U	
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**8.03**	**7.97**	**7.5**	**7.7**	**7.6**	**6.9**	**6.6**	**7.3**	**7.5**	
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	0.0002 U	--	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U	0.00020 U	
Nickel	0.1	mg/L	**0.431**	**0.386**	**0.437**	**0.572**	**0.199**	**0.287**	**0.336**	**0.0756**	**0.0628**	**0.0621**	**0.082**	**0.066**	**0.099**	**0.11**	**0.13**	**0.15**	**0.19**	**0.22**	**0.17**	**0.16**	**0.132**	**0.214**	**0.270**	**0.356**	--	**0.211**	**0.179**	**0.091**	0.04 U	0.04 U	0.04 U	**0.029 B**	**0.038 B**	**0.083**	
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	**3.76**	**4.2**	**3.6**	**3.7**	**4**	**3.2**	**3.6**	**3.7**	
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	**0.0039 J**	< 0.010	< 0.0200	< 0.02	< 0.02	0.02 U	--	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	**0.0042 B**	0.01 U	
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**65.2**	**59.7**	**68**	**68**	**83**	**80**	**89**	**94**	**86**	
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1	0.001 U	--	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.0020 U	0.002 UW	0.002 U	
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	0.01 U	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	**0.0682**	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	**0.020**	< 0.020	**0.011 J**	**0.013 J**	**0.014 J**	**0.014 J**		**0.026**	**0.023**	**0.010 J**	< 0.0200	**0.132**	< 0.02	0.02 U	--	0.02 U	**0.0265**	0.02 U	0.02 U	0.02 U	0.03	0.020 U	**0.0073 B**	**0.0075 B**	

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311	MW-311
		Sample Date	1/24/2018	7/25/2017	1/24/2017	7/26/2016	1/20/2016	7/29/2015	1/15/2015	7/17/2014	1/9/2014	7/11/2013	1/9/2013	7/26/2012	1/18/2012	7/7/2011	1/19/2011	7/14/2010	1/6/2010	7/23/2009	1/14/2009	7/16/2008	1/8/2008	7/11/2007	2/15/2007	2/07 DUP	7/11/2006	7/21/2005	7/21/2005	7/10/2002	1/16/2002	7/18/2001	1/24/2001
		Unit	Post-ISCO																								Pre-ISCO					
Field Parameters																																
Conductivity	*	mS/cm	0.256	0.165	0.102	0.274	0.382	457.7	0.426	0.311	0.265	0.343	0.454	0.406	0.309	0.376	0.54	0.251	0.232	0.857	0.83	0.647	0.539	1.041	1.013	1.013	1.101	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.54	0.2	0.12	0.17	0.31	0.58	0.43	0.43	1.50	2.30	0.48	2.22	6.80	0.94	5.71	0.84	0.21	5.25	6.15	0.27	0.42	0.08	2.49	2.49	0.19	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	171.2	20.7	11.9	-69.8	-64.3	-42.6	-111.5	-142.3	-80.5	-104.0	-15.7	-22	-32.8	-11.7	132	18	11.1	-155.5	-27.3	-176.4	-50.1	-212.4	-65.3	-65.3	-102.9	--	--	--	--	--	--
pH	*	SU	6.54	6.35	6.44	6.61	3.42	6.08	6.24	6.42	6.54	6.36	6.29	5.89	6.73	6.45	0.475	6.09	6.99	6.79	0.751	6.27	6.52	6.79	6.92	6.92	6.59	--	--	--	--	--	--
Temperature	*	Celsius	17.93	26.19	20.73	24.89	18.38	24.3	13.9	22.24	19.58	22.64	22.84	26.49	18.61	23.51	18.5	23.5	12.54	32.34	19	23.39	21.73	23.42	16.93	16.93	26.12	--	--	--	--	--	--
Turbidity	*	NTU	4.58	9.71	8.06	7.32	1.16	5.39	8.61	23.2	9.89	115	2.47	6.23	11.0	--	11	4.48	3.55	9.66	2.1	6.43	5.56	3.6	4.93	4.93	3.14	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																																
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	329	325	179	282	69	110	560 B	1,600 B	1,800	580 B	350	750	1,800	1,100	< 1000	< 1000	--	--	750	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.92	4.67	4.45	13	110	57	23
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	4.15	6.29	0.761 H	9.08 H	0.67 HF	0.60 HF	0.49 HF	1.0 HF	3.6 HF	0.033 JHF	0.17 HF	< 0.10 HF	1.6 HF	0.15	1.33	2.19	5.09	5.2	5.79 H	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.07	1.21	1.14	1.5	1.8	2.0	1.7
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.886	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	410	380	190	240	7.8	230	17	330	400	1.9	15	75	500	65	1,500	1,400	1,300	1,100	1.6	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	< 0.25	< 0.25	<0.25	< 0.25	1.0	< 0.25	0.37	< 0.075	< 0.36	0.49 J	< 1.1	< 1.1	0.069	<0.50	< 0.25	< 0.25	< 0.25	< 0.25	0.25 U	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.57	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	7.20 H	7.29 H	7.91 H	6.31 H	5.6	4.8	1.4	1.3	1.3	1.6	1.5	1.1	1.1	1.1	1.2	1.2	2	2.5	5.3	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	< 1.0	6.1	4.5	14	18	5.1	5.4	5.6	38	35	14	73	94	45	50	84	5.7	4.3	1 U	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2 U	--	--	--	--	--	--
Volatile Organic Compounds																																	
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 25	< 5.0	**11 J**	< 100	< 100	< 200	< 100	< 50	< 50	< 50 R	< 50	50 U	310 U	180 U	250 U	500 U	2,500 U	2,500 U
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	**44**	**58**	**480**	**370**	**21**	**14**	< 5.0	**72**	**46**	**26**	**420**	**71**	**3.6 J**	**9.5**	**19**	**84**	**130**	**730**	**9,600**	**4,100**	**3,800**	**11,000**	**870**	**880**	**35**	**150**	**30,000 D**	**34,000 D**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 3.0	< 0.60	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5	< 5	< 5	5 U	120 U	7.1 U	10 U	20 U	100 U	100 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	**7.5**	**11**	**61**	**94**	< 5.0	< 5.0	< 5.0	**13**	**9.4**	**12**	**64**	**6.3**	**0.44 J**	< 5.0	< 5.0	**71**	**290**	**2,500**	**1,700**	**750**	**710**	**1,800**	**530**	**520**	**740**	**2,300**	**1,900**	**2,900**
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5	< 5	< 5	5 U	62 U	36 U	50 U	100 U	500 U	500 U
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**9.6**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**0.45 J**	**11 J**	**1.5 J**	< 5.0	< 5.0	< 5.0	**0.68 J**	**1.2 J**	**190**	**200**	**35**	**32**	**70**	**23**	**22**	**21**	**22**	**47 J**	**310**
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.65	< 0.13	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 5	< 5	< 5	5 U	120 U	7.1 U	10 U	20 U	100 U	100 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**16**	**41**	< 5.0	< 5.0	< 5.0	**9.2**	**7.5**	**4.8 J**	**59**	**4.9 J**	< 5.0	< 5.0	< 5.0	**10**	**9.6**	**550**	**320**	**230**	**220**	--	**96**	**96**	**54**	**69**	**210**	**420**
Semivolatile Organic Compounds																																	
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**63**	**51**	**71**	**280**	**270**	**470**
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	**1.5**	**14**	**13**	**3.2**	**7.2**	**6.9**	**4.4**	**4.2**	**35**	**14**	**15**	< 0.19	**2.0**	**7.7**	**20 J**	**0.49**	< 10	**51**	**22**	**23**	**79**	**45**	**38**	**24**	**68**	**72**	**100**
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.0**	**3.2**	< 1.0	**1.2**	**1.2**	< 2.2	**0.55**	**3.1**	**3.7**	**2.9**	< 0.19	**0.33**	**1.5**	< 39	**0.82**	< 10	< 10	< 10	< 10	10 U	10 U	16 U	**3.2 J**	20 U	50 U	**25 J**
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.64**	**0.56**	**0.32**	**0.51**	**0.49**	< 2.2	< 0.22	**1.1 J**	**0.77**	**0.34**	< 0.19	< 0.19	< 0.19	< 39	< 0.19	< 10	< 10	< 10	< 10	10 U	10 U	16 U	10 U	20 U	50 U	50 U
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	0.067	< 0.050	< 0.050	< 2.2	< 0.22	< 1.1	< 0.11	< 0.095	< 0.19	< 0.19	< 0.19	< 39	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05	0.05 U	10 U	16 U	10 U	20 U	50 U	50 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 2.2	< 0.22	< 1.1	< 0.11	< 0.095	< 0.19	< 0.19	< 0.19	< 39	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05	0.05 U	10 U	16 U	10 U	20 U	50 U	50 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 2.2	< 0.22	< 1.1	< 0.11	< 0.095	< 0.19	< 0.19	< 0.19	< 39	< 0.19	< 0.10	< 0.1	< 0.1	< 0.1	0.1 U	10 U	16 U	10 U	20 U	50 U	50 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 2.2	< 0.22	< 1.1	< 0.11	< 0.095	< 0.19	< 0.19	< 0.19	< 39	< 0.19	< 10	< 10	< 10	< 10	10 U	10 U	16 U	10 U	20 U	50 U	50 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 2.2	< 0.22	< 1.1	< 0.11	< 0.095	< 0.19	< 0.19	< 0.19	< 39	< 0.19	< 10	< 10	< 10	< 10	10 U	10 U	16 U	10 U	20 U	50 U	50 U
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 2.2	< 0.22	< 0.48	< 0.050	< 0.043	< 0.19	< 0.19	< 0.19	< 39	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05	0.05 U	10 U	16 U	10 U	20 U	50 U	50 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 2.2	< 0.22	< 1.1	< 0.11	< 0.095	< 0.19	< 0.19	< 0.19	< 39	< 0.19	< 0.10	< 0.1	< 0.1	< 0.1	0.1 U	10 U	16 U	10 U	20 U	50 U	50 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10 U	16 U	**0.81 J**	**2.8 J**	**2.6 J**	**5.1 J**
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 2.2	< 0.22	< 1.1	< 0.11	< 0.095	< 0.19	< 0.19	< 0.19	< 39	< 0.19	< 10	< 10	< 10	< 10	10 U	10 U	16 U	10 U	20 U	50 U	50 U
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	**0.4**	**6.2**	**5.5**	**1.5**	**4.1**	**3.9**	< 2.2	**2.0**	**13**	**13**	**5.2**	< 0.19	**0.57**	**1.5**	**5.5 J**	< 0.19	**10**	< 10	< 10	< 10	**12**	10 U	16 U	**3.3 J**	**8.2 J**	**9.2 J**	**13 J**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 2.2	< 0.22	< 1.1	< 0.11	< 0.095	< 0.19	< 0.19	< 0.19	< 39	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05	0.05 U	10 U	16 U	10 U	20 U	50 U	50 U
Naphthalene	20	µg/L	< 0.5	< 0.5	**0.79**	< 0.5	**52**	**250**	**560**	**12**	**12**	**5.5**	**55**	< 2.2	**1,200 D**	**1.1**	**71**	**0.13 J**	**5.1**	**2.3**	**1,400**	**0.75**	**5,100**	**2,200**	< 10	< 10	**2,000**	**2,100**	**1,700**	**1,300 D**	**3,500 D**	**4,800 D**	**6,700 D**
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	**0.15**	**4.1**	**3.3**	**1.1**	**3.1**	**2.7**	< 2.2	**0.82**	**10**	**5.4**	**3.5**	< 0.19	**0.26**	< 0.19	< 39	< 0.19	< 10	< 10	< 10	< 10	10 U	10 U	16 U	**1.1 J**	**3.8 J**	50 U	**4.1 J**
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	**0.07**	< 0.050	< 0.050	< 2.2	< 0.22	< 1.1	< 0.11	< 0.095	< 0.19	< 0.19	< 0.19	< 39	< 0.19	< 10	< 10	< 10	< 10	10 U	10 U	16 U	10 U	20 U	50 U	50 U
Inorganic Compounds																																	
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	**0.13 B**	**63**	**20**	**4.0**
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	< 0.02	0.02 U	0.006 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	**0.0049 J**	< 0.0046	**--**	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	<0.0500	< 0.05	< 0.05	< 0.05	0.05 U	0.01 U	0.01 U	0.01 U	**0.0089 B**	**0.0039 J**	0.01 U
Barium	2	mg/L	**0.0112**	**0.0187**	**0.00914**	**0.044**	**0.0478**	**0.218**	**0.185**	**0.304**	**0.0281**	**0.145**	**0.048**	**0.059**	**0.060**	**0.11**	**0.21**	**0.020**	**0.031**	**0.20**	**0.26**	**0.12**	**0.343**	**0.306**	**0.288**	**0.294**	**0.314**	**0.343**	**0.323**	**0.077**	**0.34**	**0.22**	**0.17**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00026 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010	< 0.010	0.01 U	0.004 U	0.004 U	0.004 U	**0.005**	**0.0012 J**	0.004 U
Cadmium	0.005	mg/L	**0.0423**	**0.0312**	**0.0601**	**0.0248**	**0.0338**	< 0.005	< 0.005	**0.0133**	**0.0600**	**0.0240**	**0.034**	**0.023**	**0.028**	**0.017**	**0.0053**	**0.0076**	**0.043**	**0.018**	**0.0076**	**0.042**	< 0.0050	**0.0073**	**0.0051**	< 0.005	0.005 U	0.005 U	0.005 U	0.005 U	**0.0018 B**	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**38.3**	**35.9**	**44**	**48**	**57**	**53**
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	< 0.0012	< 0.0012	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	< 0.010	0.01 U	0.01 U	0.01 U	0.01 U	**0.084**	**0.038**	**0.0042 B**
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.01 U	0.01 U	0.01 U	**0.028**	**0.0092 J**	**0.0039 B**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	**0.0543**	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	0.0030 JB	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	< 0.010	< 0.010	< 0.010	0.01 U	0.02 U	0.02 U	0.02 U	**0.29**	**0.088**	**0.013 B**
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.018**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	**0.0082 J**	< 0.0050	< 0.010	< 0.010	< 0.010	**0.0088 J**	**0.006 J**	**0.049**	**0.054**	**0.022**	**0.012**	**0.019**	**0.0136**	0.01 U	**0.022**	**0.015**	**0.016**	0.01 U
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	**0.0023 J**	< 0.0050	< 0.0100	< 0.010	< 0.010	< 0.010	0.01 U	0.005 U	0.005 U	**0.0017 B**	**0.044**	0.015 U	**0.0032 B**
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**20.2**	**19**	**24**	**28**	**31**	**28**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	**0.00017 B**	0.0002 U	0.00020 U
Nickel	0.1	mg/L	**0.0368**	< 0.02	< 0.02	< 0.02	**0.0671**	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	**0.018 J**	**0.011 J**	< 0.0023	**0.0046 J**	< 0.040	< 0.040	**0.0027 J**	**0.0025 J**	< 0.0200	< 0.02	< 0.02	< 0.02	0.02 U	0.04 U	0.04 U	0.04 U	**0.047**	**0.026 J**	**0.0072 B**
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**3.62**	**3.37**	**4.5**	**7.3**	**6.6**	**8.8**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02	< 0.02	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**188**	**175**	**140**	**130**	**170**	**170**
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1	< 1	0.001 U	0.001 U	0.001 U	0.002 UWN	0.002 U	**0.0017 B**	0.002 UW
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0027 J**	**0.0038 J**	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	**0.0018 J**	< 0.0100	< 0.010	< 0.010	< 0.010	0.01 U	0.01 U	0.01 U	0.01 U	**0.36**	**0.097**	**0.013**
Zinc	2	mg/L	**0.168**	**0.0682**	**0.0544**	**0.0252**	**0.0659**	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	**0.024**	< 0.020	**0.016 J**	**0.012 J**	< 0.0087	**0.020**	< 0.020	< 0.020	**0.021**	**0.011 J**	< 0.0200	**0.0385**	< 0.02	< 0.02	0.02 U	0.02 U	0.02 U	0.02 U	**0.26**	**0.096**	**0.038**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-312	MW-312	MW-312	MW-312	MW-312	MW-312	MW-312	MW-312	MW-312	MW-312	MW-312	MW-312	MW-312	MW-312	MW-312	MW-312	MW-312	MW-312	MW-312	MW-313	MW-313	MW-313	MW-313	MW-313	MW-314	MW-315	MW-315	MW-315	MW-315	MW-315	MW-316
		Sample Date	7/22/2009	1/14/2009	7/21/2008	1/8/2008	7/12/2007	2/13/2007	7/12/2006	1/10/2006	7/19/2005	1/19/2005	1/05 DUP	7/14/2004	1/21/2004	7/20/2003	1/16/2003	7/10/2002	1/18/2002	7/16/2001	1/19/2001	1/25/2018	7/27/2017	1/25/2017	7/28/2016	1/21/2016	10/5/2006	1/24/2018	7/26/2017	1/26/2017	7/28/2016	1/21/2016	10/4/2006
		Unit	Post-ISCO								Pre-ISCO											Post-ISCO											
Field Parameters																																	
Conductivity	*	mS/cm	0.474	1.19	0.548	0.692	0.411	0.365	0.221	--	--	--	--	--	--	--	--	--	--	--	--	0.2	0.455	0.34	0.317	0.309	2.28	0.569	0.581	0.599	0.614	0.52	0.513
Dissolved Oxygen (YSI)	*	mg/L	2.25	6.45	0.68	0.27	0.58	3.20	1.07	--	--	--	--	--	--	--	--	--	--	--	--	2.15	1.99	0.19	0.45	1.32	0.15	0.25	0.21	0.2	0.18	0.42	0.47
Oxidation Reduction Potential	*	mV	-52.7	-47.8	-64.6	-93.1	-33.2	-7.8	20.2	--	--	--	--	--	--	--	--	--	--	--	--	99.6	-12.7	25	-72.4	-128.5	-60.6	-77.1	-56.1	-47.3	-42.9	-68.8	-112.7
pH	*	SU	6.92	0.539	7.03	6.61	7.62	7.16	6.45	--	--	--	--	--	--	--	--	--	--	--	--	10.36	10.99	8.33	8.65	12.6	6.25	6.67	6.69	6.65	6.82	6.64	6.81
Temperature	*	Celsius	30.67	18.27	28.11	23.69	23.59	22.53	24.72	--	--	--	--	--	--	--	--	--	--	--	--	20.43	24.23	22.05	24.03	20.98	23.94	21.31	23.87	22.53	23.34	21.87	25.53
Turbidity	*	NTU	7.99	3.2	8.62	1.25	0.56	1.04	0.00	--	--	--	--	--	--	--	--	--	--	--	--	4.21	9.6	1.63	3.91	1.42	8.41	3.88	2.09	4.5	5.78	1.53	0.68
Monitored Natural Attenuation Parameters																																	
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	0.936	0.189	0.29	0.27	0.54	0.72	0.17	2.2	2.5	6.1	10	11 N	--	--	--	--	--	--	--	--	--	--	--	--
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	0.371	0.0564	0.097	0.11	0.11	0.31	0.04 U	0.39	0.44	0.77	0.89	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																																	
Acetone	4,000	µg/L	< 100	< 100	< 100	< 50	< 50	< 50	< 50	**10**	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	< 50	< 50	< 50	< 50	< 50	50 U	< 50	< 50	< 50	< 50	< 50	50 R
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	13000
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**1.2 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	1700
Toluene	1,000	µg/L	< 5.0	**0.32 J**	< 5.0	< 5.0	< 5	< 5	< 5	1.0 U	1.0 U	1.0 U	1.0 U	**2**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	26
Trichloroethylene	5	µg/L	< 5.0	**0.44 J**	< 5.0	< 5.0	< 5	< 5	< 5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.46 J**	**0.73 J**	**0.64 J**	**0.82 J**	**1.3**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	860
Semivolatile Organic Compounds																																	
2-Methylnaphthalene	*	µg/L	--	--	**--**	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	2,000	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	< 10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	10 U	**0.96**	**2.5**	**4.5**	**4.0**	**2.1**	43
Acenaphthylene	10	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	< 10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	10 U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	10 U
Anthracene	10	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	< 10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	10 U	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	10 U
Benz(a)anthracene	0.1	µg/L	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.05 U	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.05 U
Benzo(a)pyrene	0.2	µg/L	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.05 U	< 0.05	< 0.05	< 0.05	**0.055**	**0.07**	0.05 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	< 0.1	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1 U	< 0.1	< 0.1	**0.11**	**0.11**	**0.17**	0.1 U
Benzo(g,h,i)perylene	10	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	< 10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	< 0.1	**0.16**	< 0.1	< 0.1	< 0.1	10 U	< 0.1	< 0.1	< 0.1	< 0.1	**0.13**	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	< 10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	10 U	< 0.05	< 0.05	**0.057**	**0.054**	**0.084**	10 U
Chrysene	0.2	µg/L	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.05 U	< 0.05	< 0.05	**0.063**	**0.055**	**0.093**	0.05 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	< 0.1	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	< 0.1	**0.12**	< 0.1	< 0.1	< 0.1	0.1 U	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	--	--	--	**--**	--	--	--	--	--	**--**	--	--
Fluoranthene	1,000	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	< 10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	10 U	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	10 U
Fluorene	1,000	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	< 10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	10 U	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	< 0.05	**0.13**	< 0.05	< 0.05	< 0.05	0.05 U	< 0.05	< 0.05	< 0.05	**0.065**	**0.085**	0.05 U
Naphthalene	20	µg/L	< 0.19	**0.036 J**	< 0.19	< 10	< 10	< 10	< 10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	10 U	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1400
Phenanthrene	10	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	< 10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	10 U	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	10 U
Pyrene	1,000	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	< 10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	10 U	**0.059**	**0.077**	**0.12**	**0.1**	**0.13**	10 U
Inorganic Compounds																																	
Aluminum (fume or dust)	*	mg/L	--	--	**--**	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.18 B**	0.2 U	**0.31**	**1.9**	**0.57**	--	--	--	**--**	--	--	--	--	--	**--**	--	--
Antimony	0.01	mg/L	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	< 0.02	0.01 U	0.006 U	0.02 U	0.02 U	0.006 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	0.02 U	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	0.02 U
Arsenic	0.05	mg/L	< 0.020	< 0.010	< 0.010	<0.0500	< 0.05	< 0.05	< 0.05	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.05 U	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.05 U
Barium	2	mg/L	**0.26**	**0.38**	**0.23**	**0.364**	**0.191**	**0.176**	**0.137**	0.2 U	**0.122**	**0.14**	**0.14**	**0.15**	**0.15**	**0.15**	**0.16**	**0.17**	**0.18**	**0.22**	**0.3**	**0.118**	**0.169**	**0.205**	**0.199**	**0.147**	**0.958**	**0.465**	**0.429**	**0.422**	**0.438**	**0.447**	**0.572**
Beryllium	0.004	mg/L	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010	< 0.010	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.004 U	0.004 U	0.004 U	0.004 U	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.01 U	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.01 U
Cadmium	0.005	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	0.005 U	0.005 U	0.005 U	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005 U	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	**19.8**	**20.9**	**25**	**25**	**22**	**23**	**25**	**22**	**20**	**18**	**21**	**33**	--	--	--	**--**	--	--	--	--	--	**--**	--	--
Chromium	0.1	mg/L	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	< 0.010	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	**0.0036 B**	0.01 U	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U
Cobalt	*	mg/L	--	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	**0.0046 B**	**0.0076 B**	**0.0084 B**	--	--	--	--	--	--	--	--	--	--	--	--
Copper	1.3	mg/L	< 0.020	**0.0028 J**	< 0.020	< 0.0100	< 0.010	< 0.010	< 0.010	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0021 B**	0.02 U	0.0034 U	**0.0079 B**	**0.0087 B**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U
Cyanide	0.2	mg/L	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.002	< 0.002	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U
Lead	0.015	mg/L	< 0.010	< 0.0050	< 0.0050	< 0.0100	< 0.010	< 0.010	< 0.010	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	**0.0019 B**	0.0033 U	0.005 U	0.005 U	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	**9.07**	**8.99**	**9**	**8.9**	**9.1**	**9.4**	**8.2**	**9.0**	**9.1**	**8.5**	**9.5**	**14**	--	--	--	**--**	--	--	--	--	--	**--**	--	--
Mercury	0.002	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0002 U	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0002 U
Nickel	0.1	mg/L	< 0.040	< 0.040	**0.0022 J**	< 0.0200	< 0.02	< 0.02	< 0.02	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.040 U	0.04 U	0.04 U	0.04 U	0.04 U	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U
Potassium	*	mg/L	--	--	--	--	--	--	--	5 U	**2.73**	**4.5**	**4.6**	**2.8**	**2.7**	**4.6**	**8.9**	**3.3**	**1.8**	**2.5**	**11**	--	--	--	**--**	--	--	--	--	--	**--**	--	--
Selenium	0.05	mg/L	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02	< 0.02	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.0058 U	0.01 U	0.01 U	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U
Sodium	*	mg/L	--	--	--	--	--	--	--	**13.8**	**15.1**	**15**	**14**	**15**	**14**	**15**	**15**	**14**	**13**	**14**	**25**	--	--	--	**--**	--	--	--	--	--	**--**	--	--
Thallium	0.002	mg/L	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1	< 0.0010	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.002 U	0.0020 UWN	0.002 UWN	0.002 UJ	0.002 U	0.002 U	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.001 U	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.001 U
Vanadium (fume or dust)	0.2	mg/L	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	< 0.010	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.0053 U	**0.023**	**0.0065 B**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U
Zinc	2	mg/L	< 0.020	**0.012 J**	< 0.020	< 0.0200	< 0.02	< 0.02	< 0.020	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.04**	**0.0074 B**	**0.0071 B**	**0.019 B**	**0.013 B**	**0.018 B**	**0.0283**	**0.0244**	< 0.02	**0.0444**	< 0.02	0.02 U	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID / Sample Date / Unit	MW-401D 7/27/2017	MW-401D 7/27/2017 DUP	MW-401D 1/26/2017	MW-401D 7/28/2016	MW-401D 1/21/2016	MW-401D 7/30/2015	MW-401D 1/14/2015	MW-401D 7/17/2014	MW-401D 1/13/2014	MW-401D 7/18/2013	MW-401D 1/9/2013	MW-401D 7/24/2012	MW-401D 1/18/2012 Post-ISCO	MW-401D 7/6/2011	MW-401D 1/19/2011	MW-401D 7/20/2010	MW-401D 1/6/2010	MW-401D 7/23/2009	MW-401D 1/13/2009	MW-401D 7/17/2008	MW-401D 1/8/2008	MW-401D 7/11/2007	MW-401D 2/13/2007	MW-401D 7/13/2006	MW-401D 1/13/2006	MW-401D 7/19/2005	MW-401D 7/19/2005 DUP	MW-401D 1/18/2005	MW-401D 1/18/2005 DUP	MW-401D 7/12/2004	MW-401D 7/12/2004 DUP	MW-401D 1/23/2004	MW-401D 1/23/2004 DUP Pre-ISCO	MW-401D 7/15/2003	MW-401D 7/15/2003 DUP	MW-401D 1/16/2003	MW-401D 1/16/2003 DUP	MW-401D 7/16/2002	MW-401D 1/16/2002	MW-401D 7/17/2001	MW-401D 1/24/2001
Field Parameters																																													
Conductivity	*	mS/cm	0.348	0.348	0.37	0.34	0.442	458	0.513	0.316	0.248	0.286	0.245	0.278	0.245	0.313	1.6	0.323	0.278	0.285	0.9	0.375	0.377	0.352	0.419	0.338	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.29	0.29	1.49	0.17	0.88	0.37	1.33	1.28	0.99	1.60	0.45	1.25	0.58	0.94	6.21	0.71	0.51	4.54	5.82	0.79	0.40	0.43	1.30	0.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	116.5	116.5	164.4	141.9	208.4	126.7	-41.9	193.2	151.9	126.4	168.0	344.0	232.7	107.1	236.7	-7.4	-16.9	-228	281.3	116.3	290.3	247.3	230.4	218.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
pH	*	SU	6.15	6.15	6.21	6.29	6.38	6.26	6.17	6.04	6.03	6.13	6.13	6.15	2.89	5.71	0.313	6.06	6.16	5.94	0.348	5.92	5.97	5.94	5.81	5.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	23.42	23.42	20.3	23.6	18.89	29.6	14.7	21.69	19.99	21.11	20.41	24.68	20.42	26.64	20.07	23.18	17.02	21.98	20.11	21.33	20.57	21.90	21.22	20.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	1.41	1.41	1.56	2.68	1.04	3.04	5.05	1.16	7.97	1.11	1.70	1.33	0.79	8.67	0.36	2.1	2.08	0.71	3.1	2.87	0.91	0.71	0.34	0.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																																													
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	95.9	126	130	107	52	36	1,000 B	840 * B	620	810	800	810	600	780	< 1000	< 1000	--	850	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.053	0.056	0.078	0.054	0.079	0.051	0.27	0.04 UJ	0.050 U	0.050 U	0.049 B	12	1.2	0.4
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	< 0.100	< 0.100	<0.100	<0.100	< 0.10 HF	< 0.10 HF	< 0.025 HF	< 0.025 HF	< 0.055 JHF	< 0.10 HF	< 0.10 HF	< 0.10 HF	< 0.10 HF	< 0.10	< 0.10	< 0.10	< 0.1	0.1 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.228	0.141	0.354	0.334	0.13	0.14	2.7	2.8	8.9	9.1	0.55	7.6	9.7	9.8	9.4	10	2.9	6.6
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.194	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	< 4	7	8	<4	2.9	< 0.58	12	5.3	9.7	4.4	5.0	9.8	2.6	1.3	2.6	9.6	1.4	1.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	0.74	1.3	1.2	1.1	0.91	0.85	0.93	1.9	6.1	8.2	5.8	6.6	2.3	11	2.7	2.2	3.2	3.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	9.09 H	8.22 H	5.34 H	6.08 H	5.6	7.0	1.2	1.6	1.4	1.4	1.3	1.3	1.2	1.3	2.0	2.6	1.9	2.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	130	40	37	37	34	33	35	40	38	38	33	40	40	43	51	45	48	47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																																													
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 200	< 200	< 50	< 50	< 5.0	**7.0 J**	< 100	< 400	< 100	< 100	< 50	< 50	< 50	50 U	71 U	31 U	31 U	25 U	100 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	**3.0 J**	1.0 U
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 2.5	< 2.5	**0.55 J**	**6.1**	< 5.0	< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	7.1 U	1.2 U	1.2 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.0 J**	1.0 U
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 6.0	< 6.0	< 0.60	< 5.0	< 5.0	< 20	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	7.1 U	1.2 U	1.2 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.02 U	1.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 1.1	**3.2 J**	< 0.11	**0.43 J**	< 5.0	< 20	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	7.1 U	1.2 U	1.2 U	1.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.12 J**	1.0 U	1.0 U	0.02 U	1.0 U
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 1.0	< 5.0	< 5.0	< 20	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	7.1 U	6.2 U	6.2 U	5.0 U	20 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.1 U	**1.2 JB**
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 3.3	**5.6 J**	**0.92 J**	**2.1 J**	< 5.0	< 20	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	7.1 U	1.2 U	1.2 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.12 J**	1.0 U	**0.39 J**	1.0 U	0.02 U	1.0 U
Trichloroethylene	5	µg/L	**10**	**11**	**10**	**14**	**12**	**14**	**18**	**27**	**41**	**41**	**33**	**28**	**38 J**	**26 J**	**29**	**28**	**33**	**36**	**15**	**19**	**31**	**27**	< 5	**19**	**12**	**12**	**13**	**8.3**	**83**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.36 J**	**0.3 J**	1.0 U	**0.28 J**	0.02 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 2.0	**15 J**	< 0.20	**0.73 J**	< 5.0	< 20	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	14 U	2.5 U	2.5 U	2.0 U	8.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.12 J**	2.0 U	2.0 U	40 U	2.0 U
Semivolatile Organic Compounds																																												
2-Methylnaphthalene	*	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	<0.19	< 0.20	< 0.097	0.096	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	<0.19	< 0.20	< 0.097	0.096	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.19	**0.27**	< 0.097	0.096	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	< 0.20	< 0.097	0.096	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	< 0.20	< 0.097	0.096	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	< 0.20	< 0.097	0.096	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.19	< 0.20	< 0.097	0.096	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.19	< 0.20	< 0.097	0.096	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	< 0.20	< 0.097	0.096	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	< 0.20	< 0.097	0.096	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.19	< 0.20	< 0.097	0.096	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.19	< 0.20	< 0.097	0.096	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.19	< 0.20	< 0.097	0.096	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	20 U	10 U	10 U	**0.68 J**	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	< 0.20	< 0.097	0.096	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**5.1**	< 0.50	**0.69**	**0.95**	< 0.19	**0.60**	**2.9**	< 0.097	0.096	**0.13 J**	< 0.19	< 0.19	**0.38**	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	< 0.20	< 0.097	0.096	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	< 0.05	< 0.05	**0.051**	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	< 0.20	< 0.097	0.096	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds																																													
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.24**	**0.23**	**1.3**	0.2 UJ	**0.076 B**	**0.090 B**	**0.074 B**	**64**	**6.2 N**	**2.2**
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	0.02 U	0.006 U	0.006 U	0.02 U	0.02 U	0.020 U	0.020 U	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U	0.020 U	0.020 U	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	<0.0500	< 0.05	< 0.05	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.01 U	**0.0044 B**	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.0728**	**0.0725**	**0.0633**	**0.0749**	**0.0806**	**0.0775**	**0.0847**	**0.0586**	**0.0626**	**0.0546**	**0.055**	**0.048**	**0.054**	**0.052**	**0.049**	**0.053**	**0.044**	**0.044**	**0.041**	**0.045**	**0.418**	**0.399**	**0.0424**	**0.0377**	0.2 U	**0.0342**	**0.0336**	**0.037**	**0.044**	**0.046**	**0.047**	**0.058**	**0.06**	**0.03**	**0.07**	**0.069**	**0.079**	**0.065**	**0.076**	**0.076**	**0.066**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00020 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.0040 U	0.004 U	**0.0021 B**	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	**0.0162**	**0.0174**	< 0.005	**0.0247**	**0.0128**	**0.0421**	**0.0358**	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	**0.0013 J**	< 0.0050	< 0.0050	< 0.005	< 0.005	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**20.1**	**20.6**	**19.9**	**19**	**20**	**33**	**34**	**39**	**40**	**60**	**43**	**44**	**44**	**41**	**44**	**39**	**41**
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	**0.0012 J**	**0.0016 J**	**0.0012 J**	< 0.010	< 0.010	**0.0015 J**	< 0.010	< 0.0100	< 0.010	< 0.010	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.010 U	0.010 U	0.010 U	0.01 U	**0.063**	**0.0061 B**	**0.0023 B**
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 UJ	**0.0049 B**	**0.0047 B**	**0.0041 B**	**0.013**	**0.0083 B**	**0.0055 B**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	**0.0035 JB**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	< 0.010	< 0.010	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.020 U	0.020 U	0.020 U	**0.00093 B**	**0.028**	**0.0034 B**	**0.0010 B**
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.015 U	0.010 U	0.010 U	0.01 U	**0.028**	0.01 U	
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0100	< 0.010	< 0.010	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 UJ	0.0050 U	0.0050 U	0.005 U	**0.0097**	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**11.3**	**10.2**	**9.93**	**10**	**10**	**18**	**18**	**20**	**20**	**9.4**	**23**	**24**	**25**	**23**	**25**	**22**	**24**
Mercury	0.002	mg/L	< 0.00002	< 0.00002	< 0.0002	< 0.00002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	**0.00017 J**	**0.00010 J**	**0.00013 J**	< 0.00020	< 0.00020	**0.00013 J**	0.00025	< 0.00020	< 0.0002	< 0.0002	0.0002 U	**0.0002**	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Spatsize Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S	MW-401S
		Sample Date	7/27/2017	7/27/2017 DUP	1/26/2017	1/26/2017 DUP	7/28/2016	7/28/2016 DUP	1/21/2016	1/21/2016 DUP	7/30/2015	7/30/15 DUP	1/15/2015	7/17/2014	1/13/2014	7/9/2013	1/9/2013	7/24/2012	1/18/2012	7/6/2011	1/19/2011	7/20/2010	1/6/2010	1/13/2009	7/15/2008	1/8/2008	1/8/2008 DUP	7/11/2007	2/13/2007	10/4/2006	7/13/2006	7/13/2006 DUP	1/13/2006	7/19/2005	1/18/2005	7/12/2004	1/23/2004	7/15/2003	1/16/2003	7/16/2002	4/5/2002	1/18/2002	7/17/2001	1/24/2001
		Unit															Post-ISCO															Pre-ISCO											
Field Parameters																																										
Conductivity	*	mS/cm	0.499	0.499	0.503	0.503	0.565	0.565	0.476	0.476	451	451	0.487	0.504	0.453	0.401	0.250	0.273	0.215	0.256	1.300	0.349	0.285	2.440	0.416	0.358	0.358	0.398	0.468	0.446	0.415	0.415	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.87	0.87	1.18	1.18	1.22	1.22	2.25	2.25	0.69	0.69	1.37	1.55	3.54	0.77	0.84	0.84	0.59	0.88	6.33	1.48	5.09	5.83	3.41	1.79	1.79	6.44	5.98	7.91	7.09	7.09	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	162	162	181.6	181.6	204.5	204.5	230	230	67.7	67.7	51.6	208.2	171.1	227.7	129.0	190.0	168.7	105.8	153.3	13.3	-4.4	314.5	173.1	254.9	254.9	249.5	291	182.8	5.95	5.95	--	--	--	--	--	--	--	--	--	--	--
pH	*	SU	5.75	5.75	5.83	5.83	6.15	6.15	6.14	6.14	6.25	6.25	5.38	5.78	5.99	5.90	6.18	6.25	3.88	5.82	0.243	6.49	6.08	0.374	5.92	6.08	6.08	5.98	5.89	6.07	244.3	244.3	--	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	23.4	23.4	21.49	21.49	23.05	23.05	19.29	19.29	22.7	22.7	13.5	20.91	18.75	20.89	18.64	25.59	19.48	25.58	18.99	22.99	18.26	20.24	21.98	20.52	20.52	21.28	20.44	21.51	20.22	20.22	--	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	2.77	2.77	5.82	5.82	2.45	2.45	5.6	5.6	3.02	3.02	7.47	4.29	3.43	2.76	1.3	1.63	2.73	5.49	8.38	2	7.79	1.1	0.82	1.57	1.57	0.59	0.36	0.49	0.09	0.09	--	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																																										
Carbon Dioxide	*	mg/L	--	--	--	--	--	--	--	--	--	--	168	185	164	142	61	56	960 B	740 * B	600	1,100 B	860	640	960	< 1000	< 1000	< 1000	--	--	1,000	900	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.081	0.12	8.9	0.04 U	0.041 B	0.053	--	0.078	1.1	0.15
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	--	--	--	--	< 0.100	< 0.100	<0.100	< 0.100	< 0.10 HF	< 0.10 HF	0.035 J HF	< 0.025 HF	< 0.064 JHF	< 0.10 HF	< 0.10 HF	< 0.10 HF	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	--	0.1 U	0.1 U	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0094	0.0119	0.0306	0.0547	0.14	1.9	0.56	2.3	1.0	1.5	--	1.9	2.3	1.8
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.005 UJ	0.005 UJ	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	--	--	--	--	< 4	< 4	<4	< 4	< 0.58	11	3.0	11	29	8.2	44	0.27	0.075 J	0.99	0.66	34	1.4	--	0.59	0.4	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	--	--	--	--	2.5	3.1	4.2	1.1	0.57	< 0.25	< 0.075	< 0.075	< 0.36	1.4	1.8	1.6	5.5	0.99	0.99	0.52	0.69	--	1.3	1.3	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16	14	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	--	--	--	--	7.46 H	8.21 H	5.70 H	7.44 H	7.4	6.4	1.3	1.6	1.5	1.3	1.4	1.1	1.5	3.9	3.4	6.4	7.4	--	9.6	8.4	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	--	--	--	--	62	67	75	64	31	28	26	25	25	50	46	48	53	53	53	57	74	--	71	71	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2 U	2 U	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																																										
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 25	< 5.0	**9.4 J**	< 100	< 100	< 100	< 50	< 50	< 50	< 50	--	50 R	50 R	100 U	83 U	25 U	25 U	25 U	25 U	25 U	25 U	**24 J**	--	**12 J**	0.12 U	25 U
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	5 U	5 U	5 U	10 U	3.3 U	10 U	10 U	**6.8**	10 U	10 U	10 U	10 U	10 U	5.0 U	10 U
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 3.0	< 3.0	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5	--	5 U	5 U	10 U	3.3 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	5.0 U	10 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.55	< 0.055	< 0.11	**0.58 J**	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5	5 U	5 U	5 U	10 U	3.3 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	5.0 U	10 U
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5	5 U	5 U	5 U	10 U	17 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	**1.3 JB**	
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.7	< 1.7	**0.90 J**	**3.4 J**	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5 U	5 U	5 U	5 U	**2.9**	10 U	10 U	**0.28 J**	10 U	10 U	5.0 U	10 U
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**5.3**	**21**	**59**	**40**	**38**	**28**	**49**	**100**	**170**	**58**	**40**	**100**	**100**	**200**	**130**	--	**56**	**52**	**19**	**31**	**4.1**	**7.8**	10 U	10 U	10 U	10 U	10 U	10 U	5.0 U	10 U	
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 0.20	**0.95 J**	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5	5 U	5 U	5 U	20 U	6.7 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	--	2.0 U	10 U	2.0 U
Semivolatile Organic Compounds																																										
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.50	< 0.50	< 0.50	< 0.20	< 0.19	< 0.097	< 0.099	< 0.096	< 0.19	<0.20	< 0.19	< 0.19	< 10	< 10	< 10	< 10	--	10 U	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.19	< 0.097	< 0.099	< 0.096	< 0.19	<0.20	< 0.19	< 0.19	< 10	< 10	< 10	< 10	--	10 U	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.020	< 0.019	< 0.097	< 0.099	< 0.096	< 0.019	<0.20	< 0.019	< 0.019	< 10	< 10	< 10	< 10	--	10 U	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.020	< 0.019	< 0.097	< 0.099	< 0.096	< 0.019	<0.20	< 0.019	< 0.019	<0.050	<0.050	<0.050	< 0.05	--	0.05 U	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.020	< 0.019	< 0.097	< 0.099	< 0.096	< 0.019	<0.20	< 0.019	< 0.019	<0.050	<0.050	<0.050	< 0.05	--	0.05 U	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.097	< 0.099	< 0.096	< 0.19	<0.20	< 0.19	< 0.19	<0.10	<0.10	<0.10	< 0.1	--	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.097	**0.23**	< 0.096	< 0.19	<0.20	< 0.19	< 0.19	< 10	< 10	< 10	< 10	--	10 U	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.020	< 0.019	< 0.097	< 0.099	< 0.096	< 0.19	<0.20	< 0.19	< 0.19	< 10	< 10	< 10	< 10	--	10 U	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.020	< 0.019	< 0.043	< 0.045	< 0.043	< 0.19	<0.20	< 0.19	< 0.19	<0.050	<0.050	<0.050	< 0.05	--	0.05 U	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.097	< 0.099	< 0.096	< 0.19	<0.20	< 0.19	< 0.19	<0.10	<0.10	<0.10	< 0.1	--	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	3	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.097	< 0.099	< 0.096	< 0.19	<0.20	< 0.19	< 0.19	< 10	< 10	< 10	< 10	--	10 U	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.097	< 0.099	< 0.096	< 0.19	<0.20	< 0.19	< 0.19	< 10	< 10	< 10	< 10	--	10 U	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	**0.72 J**	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.020	< 0.019	< 0.097	**0.16 J**	< 0.096	< 0.19	<0.20	< 0.19	< 0.19	<0.050	<0.050	<0.050	< 0.05	--	0.05 U	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.50	**1.2**	< 0.50	< 0.20	< 0.19	< 0.097	< 0.099	**0.71**	< 0.19	<0.20	< 0.19	< 0.19	< 10	< 10	< 10	< 10	--	10 U	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.020	< 0.019	< 0.097	< 0.099	< 0.096	< 0.19	<0.20	< 0.19	< 0.19	< 10	< 10	< 10	< 10	--	10 U	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.064**	< 0.050	< 0.050	< 0.050	< 0.020	< 0.019	< 0.097	< 0.099	< 0.096	< 0.19	<0.20	< 0.19	< 0.19	< 10	< 10	< 10	< 10	--	10 U	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds																																										
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	**0.24**	**17**	0.2 U	**0.10 B**	**0.043 B**	--	**0.036 B**	**1.7 N**	**0.21**	
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.0200	< 0.0200	< 0.02	--	0.02 U	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.020 U	0.02 U	--	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.010	< 0.010	< 0.010	< 0.010	<0.0500	<0.0500	<0.050	< 0.05	--	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	--	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.104**	**0.106**	**0.101**	**0.0998**	**0.117**	**0.118**	**0.0857**	**0.0846**	**0.0915**	**0.097**	**0.112**	**0.121**	**0.100**	**0.0941**	**0.066**	**0.064**	**0.067**	**0.057**	**0.051**	**0.043**	**0.05**	**0.055**	**0.059**	**0.0482**	**0.0479**	**0.0429**	**0.0481**	--	**0.0621**	**0.0574**	0.2 U	**0.0337**	**0.044**	**0.049**	**0.082**	**0.06**	**0.065**	**0.067**		**0.068**	**0.067**	**0.061**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00027 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.0100	< 0.010	< 0.01	--	0.01 U	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.004 U	--	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	--	0.005 U	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.0050 U	0.005 U	--	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**14.7**	**13.9**	12	16	**29**	**27**	**32**	**31**	--	**32**	**30**	**28**	
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0014 J**	**0.0016 J**	**0.0013 J**	**0.0022 J**	<0.010	**0.0022 J**	**0.0024 J**	< 0.0100	< 0.0100	< 0.010	< 0.010	--	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	**0.016**	0.01 UJ	0.010 U	0.01 U	--	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	**0.0053 B**	**0.0063 B**	--	**0.0078 B**	**0.011**	**0.0066 B**	
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	**0.0030 JB**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	< 0.0100	< 0.010	< 0.010	--	0.01 U	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.020 UWN	0.020 UWN	0.02 UW	--	**0.001 B**	0.02 U	**0.096**	
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	--	0.01 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0100	< 0.0100	< 0.010	< 0.010	--	0.01 U	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	**0.0075**	0.005 UJ	0.0050 U	0.005 U	--	0.005 U	0.005 U	**0.0026 B**	
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**12.7**	**10.5**	**7.7**	**10**	**24**	**21**	**24**	**23**	--	**25**	**23**	**23**	
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	--	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	--	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	< 0.0023	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.0200	< 0.0200	< 0.020	< 0.02	--	0.02 U	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 UJ	0.040

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP	MW-401SAP
		Sample Date	7/27/2017	1/27/2017	7/28/2016	1/21/2016	7/28/2015	1/29/2015	1/15/15 DUP	7/16/2014	1/13/2014	7/10/2013	1/9/2013	7/24/2012	1/18/2012	7/6/2011	1/17/2011	7/20/2010	1/6/2010	7/23/2009	1/13/2009	7/17/2008	1/8/2008	7/11/2007	2/13/2007	7/13/2006	1/13/2006	7/19/2005	1/18/2005	7/12/2004	1/23/2004	7/15/2003	1/17/2003	7/16/2002	1/18/2002	7/17/2001	1/24/2001
		Unit	Post-ISCO																								Pre-ISCO									
Field Parameters																																				
Conductivity	*	mS/cm	0.232	0.24	0.253	0.223	317	0.286	0.286	0.324	0.314	0.327	0.335	0.359	0.348	0.305	2.55	0.364	0.315	0.336	1.07	0.539	0.485	0.39	0.355	0.351	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.35	0.77	0.93	0.68	0.99	1.97	1.97	2.56	0.41	0.44	0.41	1.37	0.78	3.22	5.98	6.04	12.6	7.58	198	1.39	0.49	2.31	0.47	2.3	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	150.3	241.6	173	144.8	81.1	98.6	98.6	182.5	164.4	186.6	180.0	345	230.8	155.4	206.1	155.5	63.4	167	5.73	170	329.4	238.7	258	96.7	--	--	--	--	--	--	--	--	--	--	--
pH	*	SU	5.54	5.44	5.89	5.6	5.85	5.94	5.94	5.94	5.95	5.96	6.06	6.06	2.99	5.40	0.256	6.24	8.07	6.01	0.318	6.04	5.92	5.88	5.9	6.00	--	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	25.26	16.46	24.97	19.31	24.5	17.92	17.92	23.21	20.47	22.56	20.86	24.98	19.05	26.87	15.7	31.64	16.15	25.11	20.14	25.12	21.35	23.06	20.39	21.4	--	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	1.62	0.69	1.72	1.68	1.97	1.19	0.84	1.19	1.52	0.58	1.00	1.90	0.78	7.37	9.02	26.0	9.50	2.7	0.85	9.9	2.14	3.24	0.46	1.41	--	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																																				
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	65.5	60.4	138	143	124	69	75	1000 B	910 * B	850 *	670 B	550	940	720	970	< 1000	< 1000	--	720	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	0.104	0.1 U	0.05 U	2.6	0.33	0.28	2.5	0.19	0.43	0.66	3.6
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	< 0.100	< 0.100	< 0.100	<0.100	< 0.100	< 0.10 HF	< 0.10 HF	0.025 J HF	< 0.025 HF	< 0.025 HF	< 0.10 HF	< 0.10 HF	< 0.10 HF	< 0.10 HF	< 0.10	< 0.10	< 0.10	< 0.1	0.1 U	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0177	0.0857	0.131	0.36	0.17	0.15	0.04	0.25	0.06	0.21	0.13	0.47
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.005 U	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	< 4	< 4	< 4	< 4	< 4	0.63	< 0.58	< 0.29	< 0.29	< 0.19	< 0.19	0.29	0.20	0.43	0.10 J	0.13	2.0	0.32	1.2	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	2.6	2.4	2.6	2.9	2.4	3.0	2.8	3.8	2.4	12	12	14	11	3.1	25	5.2	3.5	5.3	3	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	8.44 H	8.45 H	8.01 H	5.22 H	5.91 H	6.2	5.7	1.3	1.6	1.5	1.6	1.5	1.1	1.2	1.2	2.4	2.9	2.3	4.2	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	43	41	39	45	41	38	38	44	33	34	33	33	39	42	57	57	45	55	44	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2 U	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																																					
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	< 100	< 50	< 50	< 50	50 U	67 U	62 U	25 U	25 U	25 U	25 U	**18 J**	**700 D**	25 U	25 U
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	< 0.25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	6.7 U	2.5 U	1.0 U	1.0 U	1.0 U	**0.96 J**	1.0 U	1.0 U	**5.1**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	6.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	6.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	**2.7 J B**	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	6.7 U	12 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	6.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.38 J**	1.0 U	**0.7 J**
Trichloroethylene	5	µg/L	**5.0**	**7.1**	**7.0**	**13**	**17**	**19**	**20**	**23**	**25**	**27**	**18**	**14**	**8.7**	**1.4 J**	**1.6 J**	**1.3 J**	< 5.0	< 5.0	< 5.0	**1.1 J**	**2.6 J**	< 5.0	< 5	< 5	5 U	6.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	13 U	5.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.16 J**
Semivolatile Organic Compounds																																				
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 5.0	< 0.50	< 0.50	< 0.50	<0.19	< 0.20	< 0.099	< 0.096	< 0.11	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.19	< 0.20	< 0.099	< 0.096	< 0.11	0.14 J	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	< 0.20	< 0.099	< 0.096	< 0.11	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	**0.064**	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	< 0.20	< 0.099	< 0.096	< 0.11	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	< 0.20	< 0.099	< 0.096	< 0.11	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	<0.19	< 0.20	< 0.099	< 0.096	< 0.11	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	<0.19	< 0.20	< 0.099	< 0.096	< 0.11	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	< 0.20	< 0.099	< 0.096	< 0.11	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.05	< 0.05	**0.059**	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	< 0.20	< 0.045	< 0.043	< 0.049	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	<0.19	< 0.20	< 0.099	< 0.096	< 0.11	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	<0.19	< 0.20	< 0.099	< 0.096	< 0.11	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	<0.19	< 0.20	< 0.099	< 0.096	< 0.11	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	< 0.20	< 0.099	< 0.096	< 0.11	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	**0.56**	< 500	< 500	**0.6**	< 0.50	< 0.50	<0.19	< 0.20	< 0.099	< 0.096	< 0.11	< 0.19	< 0.20	< 0.19	**0.033 J**	**0.19**	< 10	< 10	< 10	10 U	0.2 U	**0.54**	**0.37**	0.2 U	**0.54**	10 U	**3.4 J**	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.50	< 0.50	< 0.050	< 0.050	< 0.050	<0.19	< 0.20	< 0.099	< 0.096	< 0.11	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	**0.38 J**
Pyrene	1,000	µg/L	< 0.05	< 0.05	**0.076**	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	< 0.20	< 0.099	< 0.096	< 0.11	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 UJ	10 U	10 U	10 U	10 U
Inorganic Compounds																																				
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	**2.3**	**0.3**	**0.5**	**3.3**	**0.27**	0.63 U	**1.2 N**	**6.4**
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	<0.0500	< 0.05	< 0.05	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0032 B**	**0.0032 B**
Barium	2	mg/L	**0.0831**	**0.0813**	**0.0615**	**0.0774**	**0.0623**	**0.0576**	**0.0566**	**0.0522**	**0.052**	**0.0498**	**0.061**	**0.063**	**0.075**	**0.083**	**0.10**	**0.086**	**0.082**	**0.075**	**0.077**	**0.064**	**0.0790**	**0.0653**	**0.0770**	**0.0705**	0.2 U	**0.0614**	**0.062**	**0.069**	**0.049**	**0.04**	**0.065**	**0.053**	**0.077**	**0.078**	0.074
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.00020	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	**0.0143**	**0.0184**	< 0.005	**0.00946**	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**16**	**18.2**	**17**	**23**	**15**	**15**	**15**	**12**	**14**	**14**	**12**
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	< 0.0012	**0.0015 J**	< 0.010	< 0.010	< 0.010	**0.0015 J**	**0.0021 J**	< 0.0100	< 0.010	< 0.010	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	**0.0042 B**	0.01 U	0.01 U	0.01 U	**0.0047 B**
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	**0.0035 B**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	< 0.0019	**0.0025 J**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	< 0.010	< 0.010	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0057 B**	0.02 U	**0.0019 B**	0.02 U	**0.0026 B**
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	0.012	< 0.010	< 0.010	< 0.010	< 0.002	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	0.01 U	0.003 U	0.005 U	0.005 U	**0.0081**	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**7.43**	**7.67**	**7**	**7**	**6**	**6.7**	**7.1**	**5.7**	**6.6**	**6.4**	**6.2**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	**0.00042**	0.00036	0.00036	**0.00037**	**0.00036**	**0.00062**	**0.00025**	**0.00021**	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	0.0002 U	0.0002 U	**0.0005**	**0.00085 F4**	0.0002 U	0.0002 U	0.0002 U	**0.000098 B**	0.0002 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	< 0.0023	< 0.0023	< 0.0023	**0.0046 J**	< 0.040	< 0.040	< 0.040	< 0.040	< 0.0200	< 0.02	< 0.02	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 UJ	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	**2.8**	**3.1**	**3.5**	**2.6**	**3.4**	**2.8**	**2.5**	**2.6**	**2.7**	**2.7**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0054 B**	0.01 U	0.01 U	**0.0045 B**
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**74.9**	**92**	**100**	**88**	**120**	**100**	**120**	**110**	**120**	**140**	**180**
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 U	0.002 UW	0.002 UJ	0.002 UN	0.002 U
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	**0.0066 B**	0.01 U	0.01 U	0.01 U	**0.0085 B**
Zinc	2	mg/L	**0.0292**	**0.0332**	< 0.02	**0.029**	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	**0.0231**	< 0.020	< 0.020	**0.0094 J**	**0.011 J**	**0.010 J**	**0.012 J**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.03**	**0.029**	0.02 U	**0.0092 B**	**0.0068 B**	**0.021**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S	MW-402S
		Sample Date	1/24/2018	7/26/2017	1/25/2017	7/27/2016	1/20/2016	7/28/2015	1/12/2015	7/15/2014	1/7/2014	7/9/2013	1/8/2013	1/17/2012	1/17/2012	7/6/2011	1/18/2011	7/15/2010	1/6/2010	1/14/2009	7/21/2008	1/9/2008	7/10/2007	2/15/2007	7/11/2006	1/16/2006	7/20/2005	2/7/2005	7/15/2004	1/22/2004	7/16/2003	1/20/2003	7/11/2002	1/15/2002	7/17/2001	1/23/2001
		Unit	Post-ISCO																							Pre-ISCO								
Field Parameters																																		
Conductivity	*	mS/cm	0.613	0.439	0.571	0.648	0.546	565	0.586	0.579	0.463	0.417	0.557	0.702	0.551	0.487	5.17	1.492	0.372	0.329	0.399	0.457	0.387	0.486	0.514	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.7	1.74	0.71	0.24	0.42	0.95	0.46	1.19	2.02	2.61	2.39	3.79	8.00	4.23	6.26	5.75	6.16	2.28	1.64	0.69	0.86	0.45	0.65	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	-32.2	69.3	25.1	44.2	94	49.2	210.1	120.3	193.8	8.9	80.8	111.0	16.9	110.0	189.4	-71.1	117.9	282.5	165.2	192.9	139.4	153.9	237.6	--	--	--	--	--	--	--	--	--	--
pH	*	SU	6.12	6.09	6.29	6.44	6.12	6.12	5.90	6.13	6.24	6.11	6.18	6.16	6.89	5.70	0.509	6.41	5.92	6.25	5.75	5.93	5.97	6.35	6.36	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	20.94	25.87	20.73	22.75	18.77	26.4	17.7	22.66	15.57	22.18	18.53	26.40	24.03	22.40	19.18	22.23	17.87	18.35	22.06	20.82	22.29	18.00	20.61	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	0.84	8.11	7.92	4.2	7.9	1.31	1.70	1.64	1.56	2.81	1.07	1.5	4.54	9.9	8.00	7.5	8.7	3.09	6.75	0.63	4.88	6.53	0.66	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																																		
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.123	0.1 U	0.05 U	0.08	0.05 U	0.06	120	0.23	130 N	190	0.11
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.9	0.071	0.57	1.1	1.4	1.2	4.2	1.2	4.4	5.2	1.9
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																																			
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	**9.5 J**	< 100	< 100	< 100	< 50	< 50	< 50	50 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	**0.28 J**	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.16 J**	**0.18 JB**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.5 J**	1.0 U	1.0 U
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.28 J**	5.0 U	5.0 U
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.48 J**	1.0 U	1.0 U
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.33 J**	2.0 U	2.0 U
Semivolatile Organic Compounds																																			
2-Methylnaphthalene	*	µg/L	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**--**	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	**860 D**
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.21	< 0.19	< 0.11	< 0.13	< 0.11	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	**100**
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.21	< 0.19	< 0.11	< 0.13	< 0.11	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	**13**
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.21	< 0.19	< 0.11	< 0.13	< 0.11	< 0.20	< 0.19	< 0.19	< 0.19	<0.050	<0.050	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.21	< 0.19	< 0.11	< 0.13	< 0.11	< 0.20	< 0.19	< 0.19	< 0.19	<0.050	<0.050	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.21	< 0.19	< 0.11	< 0.13	< 0.11	< 0.20	< 0.19	< 0.19	< 0.19	<0.10	<0.10	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.21	< 0.19	< 0.11	< 0.13	< 0.11	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	**0.051**	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.21	< 0.19	< 0.11	< 0.13	< 0.11	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.21	< 0.19	< 0.048	< 0.057	< 0.049	< 0.20	< 0.19	< 0.19	< 0.19	<0.050	<0.050	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.21	< 0.19	< 0.11	< 0.13	< 0.11	< 0.20	< 0.19	< 0.19	< 0.19	<0.10	<0.10	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	**24**
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.21	< 0.19	< 0.11	< 0.13	< 0.11	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	**5.9 J**
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.21	< 0.19	< 0.11	< 0.13	< 0.11	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	**43**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	**0.053**	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.21	< 0.19	< 0.11	< 0.13	< 0.11	**0.33**	< 0.19	< 0.19	< 0.19	<0.050	<0.050	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.21	< 0.19	**0.56**	< 0.13	**0.27**	< 0.20	< 0.19	< 0.19	0.060 J	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	**0.54 J**	**12,000 D**
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.50	< 0.050	< 0.050	< 0.050	< 0.21	< 0.19	< 0.11	< 0.13	< 0.11	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	**42**
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.21	< 0.19	< 0.11	< 0.13	< 0.11	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	**7.0 J**
Inorganic Compounds																																			
Aluminum (fume or dust)	*	mg/L	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	200 U	200 U	200 U	200 U	200 U	200 U	200 U	**270,000**	**540**	**250,000 N**	**410,000 N**	**230 N**
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.020	< 0.02	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.020	**0.22**	< 0.010	< 0.010	<0.0500	<0.050	< 0.05	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.011**	0.01 U	**0.0050 B**	**0.021**	0.01 U
Barium	2	mg/L	**0.0936**	**0.0526**	**0.0766**	**0.125**	**0.0881**	**0.0857**	**0.0777**	**0.0864**	**0.0802**	**0.0447**	**0.066**	**0.047**	**0.078**	**0.086**	**0.072**	**0.061**	**0.58**	**0.048**	**0.059**	**0.0505**	**0.0511**	**0.0602**	**0.051**	0.2 U	**0.0423**	**0.049**	**0.055**	**0.053**	**0.05**	**0.64**	**0.049**	**0.68**	**0.92**	**0.061**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	**0.00029 J**	< 0.00020	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	**0.01**	0.004 U	**0.011**	**0.016**	0.004 U
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	**0.0027 B**	0.005 U
Calcium metal	*	mg/L	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**25**	**28.8**	**28**	**36**	**36**	**31**	**38**	**32**	**37**	**39**	**43**
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	**0.0089 J**	**0.0024 J**	**0.0016 J**	< 0.010	< 0.010	**0.0014 J**	< 0.0100	< 0.010	< 0.010	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	**0.19**	0.01 U	**0.2**	**0.31**	0.01 U
Cobalt	*	mg/L	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.09**	**0.0026 B**	**0.096**	**0.14**	**0.0065 B**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	**0.0036 J**	< 0.0019	< 0.020	< 0.020	< 0.020	**0.0023 J**	< 0.0100	< 0.010	< 0.010	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.12**	**0.0012 B**	**0.12**	**0.18**	**0.0023 B**
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	**0.0052 J**	< 0.010	< 0.010	< 0.010	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	**0.0049 J**	< 0.0040	<0.010	<0.010	**0.0025 J**	< 0.0050	< 0.0100	< 0.010	< 0.010	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.071**	0.005 U	**0.073**	**0.1**	**0.0018 B**
Magnesium	*	mg/L	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**14.6**	**16**	**16**	**20**	**20**	**18**	**29**	**19**	**30**	**37**	**26**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	**0.00074 S**	0.0002 U	**0.00070**	**0.00093**	0.00020 U
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	< 0.0023	**0.0043 J**	< 0.0023	< 0.040	< 0.040	< 0.040	**0.0020 J**	< 0.0200	< 0.020	< 0.02	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	**0.094**	0.04 U	**0.092**	**0.14**	0.04 U
Potassium	*	mg/L	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**6.76**	**5.18**	**6.1**	**7.6**	**9**	**6.9**	**16**	**7.3**	**16**	**21**	**7.0**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0200	< 0.020	< 0.02	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**42.7**	**46.8**	**42**	**42**	**21**	**39**	**36**	**37**	**36**	**38**	**49**
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	**0.00030 J**	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 UWN	0.002 UWN	**0.0013 B**	0.002 UN	0.002 U
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0024	**0.014**	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.38**	0.01 U	**0.41**	**0.6**	0.01 U
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	**0.0211**	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0087	**0.017 J**	< 0.0087	<0.020	< 0.020	**0.017 J**	< 0.020	< 0.0200	< 0.020	< 0.02	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.35**	0.02 U	**0.34**	**0.51**	0.02 U

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D	MW-402D
		Sample Date	1/24/2018	7/26/2017	1/25/2017	7/27/2016	1/20/2016	7/28/2015	1/13/2015	7/15/2014	1/7/2014	7/9/2013	1/9/2013	7/24/2012	1/17/2012	7/6/2011	1/17/2011	7/15/2010	1/5/2010	7/22/2009	1/13/2009	7/22/2008	1/9/2008	7/11/2007	2/15/2007	7/13/2006	1/15/2006	7/20/2005	2/7/2005	7/15/2004	1/22/2004	7/16/2003	1/20/2003	7/12/2002	1/15/2002	7/17/2001	7/01 DUP	1/24/2001
		Unit	Post-ISCO																								Pre-ISCO								
Field Parameters																																			
Conductivity	*	mS/cm	0.705	0.657	0.689	0.675	0.658	658	0.615	0.671	0.516	0.660	0.727	0.657	0.759	0.702	2.6	0.583	0.515	0.531	0.487	0.62	0.690	0.644	0.668	0.608	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.15	0.12	0.52	0.47	0.33	0.75	0.44	1.5	3.57	0.44	0.59	4.06	7.92	2.20	6.48	2.12	4.66	0.23	0.66	0.31	0.31	0.19	0.58	0.37	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	-33.2	44.7	32.4	203.4	19.5	26.3	193.1	135.6	82.5	-27.1	67.7	107.0	29.3	101.4	129.3	-74.6	159.9	181.9	165.5	119.5	180.8	120.1	147.8	78.5	--	--	--	--	--	--	--	--	--	--	--
pH	*	SU	6.18	6.09	6.4	6.61	6.2	6.21	6.00	6.17	6.43	6.18	6.23	6.13	6.80	5.79	0.552	6.19	6.47	6.11	6.24	6.34	6.05	6.16	6.49	6.18	--	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	20.79	22.8	20.31	22.33	17.22	26.9	16.2	21.17	14.74	23.48	17.67	25.80	21.07	21.58	17.61	21.84	15.92	21.31	18.89	22.82	20.77	22.97	19.07	22.21	--	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	1.03	10.3	6.89	4.46	6.6	2.95	6.44	2.34	2.06	0.89	0.78	2.00	3.34	6.87	9.50	6.80	0.82	4.3	4.13	5.74	0.49	1.42	1.57	2.10	--	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																																			
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	144	140	266	156	72	51	850 B	930 * B	770 *	780	730	910 *	760	860	< 1000	< 1000	--	860	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1 U	4.49	2.29	54	0.31	0.35	0.9	0.49	2.9	3.8 N	0.21	0.19	4.3
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	< 0.100	< 0.100	<0.100	<0.100	< 0.10 HF	< 0.10 HF	< 0.10 HF	< 0.025 HF	< 0.025 HF	< 0.10 HF	< 0.10 HF	< 0.10 HF	< 0.10 HF	< 0.10	< 0.10	< 0.10	< 0.1	0.1 U	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.8	2.67	1.89	4.3	2.9	2.4	2.5	2.5	2.5	2.6	2.4	2.4	2.4
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.64	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	< 4	< 4	<4	<4	< 0.58	2.4	< 0.29	< 0.29	< 0.19	< 0.19	0.22	0.23	0.5	0.26	0.49	1.8	2.3	2.7	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--		1.5	1.7	2.2	3.6	3.6	4.9	4.6	14	13	9.4	6.0	1.9	8.9	2.3	2.0	2.2	2.5	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	1.6	--	--	--	--	--	--	--	--	--	--	15	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	7.79 H	7.78 H	7.28 H	8.18 H	6.4	7.5	--	1.5	1.6	1.4	1.4	1.1	1.3	1.1	1.9	1.6	2.3	1.9	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	56	54	78	63	35	33	39	39	36	39	26	33	32	29	44	40	45	44	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2 U	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																																			
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	< 100	< 50	< 50	< 50	50 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	< 0.25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.19 J**	1.0 U	1.0 U
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.4 J**
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.29 J**	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**0.16 J**	**0.23 J**	**0.15 J**	**0.19 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	**2.2**	**1.6**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds																																			
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	<0.22	< 0.19	< 0.10	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	**0.37 J**	10 U	10 U	10 U
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.22	< 0.19	< 0.10	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 UJ	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.22	< 0.19	< 0.10	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.22	< 0.19	< 0.10	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 UJ	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.22	< 0.19	< 0.10	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.22	< 0.19	< 0.10	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1 UJ	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.22	< 0.19	< 0.10	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.22	< 0.19	< 0.10	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.22	< 0.19	< 0.046	< 0.045	< 0.049	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.22	< 0.19	< 0.10	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.22	< 0.19	< 0.10	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.22	< 0.19	< 0.10	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.22	< 0.19	< 0.10	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 500	< 0.50	< 0.50	< 0.50	<0.22	< 0.19	< 0.10	< 0.10	< 0.11	**0.30**	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	**0.24**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.50	< 0.050	< 0.050	< 0.050	<0.22	< 0.19	< 0.10	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 UJ	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.22	< 0.19	< 0.10	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds																																			
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**9.91**	**5.48**	**130**	**0.68**	**0.35**	**1.3**	**0.83**	**6.7**	**8.8 N**	**0.52 N**	**0.44 N**	**12**
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	<0.0500	< 0.05	< 0.05	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.108**	**0.0882**	**0.0845**	**0.0964**	**0.0865**	**0.079**	**0.0768**	**0.0771**	**0.0874**	**0.0950**	**0.10**	**0.083**	**0.12**	**0.10**	**0.10**	**0.24**	**0.082**	**0.078**	**0.08**	**0.083**	**0.0699**	**0.0662**	**0.0529**	**0.0615**	0.2 U	**0.0472**	**0.22**	**0.053**	**0.045**	**0.04**	**0.045**	**0.052**	**0.058**	**0.039**	**0.037**	**0.055**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.00020	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010	< 0.010	0.01 U	0.005 U	0.004 U	**0.0065**	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.004 U	0.004 U	**0.00067 B**
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	0.005 U	
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**26.5**	**28**	**40**	**55**	**47**	**43**	**54**	**50**	**50**	**49**	**49**	**47**
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0012 J**	< 0.0012	**0.0018 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	0.01 U	**0.0079**	0.01 U	**0.097**	0.01 U	0.01 U	0.01 UJ	0.01 U	**0.0049 B**	**0.0061 B**	0.01 U	0.01 U	**0.0086 B**
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	**0.046**	0.01 U	0.01 U	0.01 U	**0.0017 B**	**0.0075 B**	**0.0057 B**	**0.0019 B**	**0.0015 B**	**0.0058 B**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	< 0.0019	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	< 0.010	< 0.010	0.01 U	0.025 U	0.02 U	**0.076**	0.02 U	0.02 U	0.02 U	**0.0037 B**	**0.0051 B**	**0.0054 B**	0.02 U	0.02 U	**0.011 B**
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0100	< 0.010	< 0.010	0.01 U	**0.0033**	0.005 U	**0.029**	0.005 U	0.005 U	0.005 U	**0.0024 B**	0.005 U	0.0050 U	0.005 U	0.005 U	**0.0019 B**
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**11.9**	**11.2**	**18**	**21**	**18**	**18**	**22**	**21**	**21**	**21**	**21**	**21**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	**0.00042**	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	**0.00022**	0.0002 U	0.0002 U	0.0002 U	**0.00015 B**	0.0002 U	0.00020 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	< 0.0023	< 0.0023	< 0.0023	< 0.040	**< 0.040**	< 0.040	< 0.040	< 0.040	< 0.0200	< 0.02	< 0.02	0.02 U	0.04 U	0.04 U	**0.06**	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	**0.0063 B**	0.04 U	0.04 U	**0.007 B**
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**13.7**	**14.6**	**22**	**19**	**19**	**22**	**19**	**18**	**18**	**17**	**17**	**18**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0043 B**	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**72.8**	**69.7**	**76**	**73**	**40**	**77**	**79**	**72**	**77**	**78**	**77**	**88**
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1	0.001 U	0.001 U	0.001 U	**0.0023**	0.001 U	0.001 U	0.002 U	0.002 UWN	0.002 UWN	0.0020 U	0.002 UWN	0.002 UWN	0.002 U
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0020	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	0.01 U	**0.0166**	0.01 U	**0.22**	0.01 U	0.01 U	0.01 U	**0.0026 B**	**0.011**	**0.015**	0.01 U	0.01 U	**0.019**
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0087	< 0.0087	< 0.0087	**0.015 J**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	0.02 U	**0.0203**	0.02 U	**0.14**	0.02 U	0.02 U	0.02 U	**0.03**	**0.008 B**	**0.016 B**	**0.0098 B**	0.02 U	0.02 U	**0.026**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected;

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR	MW-404DR
		Sample Date	1/25/2018	7/27/2017	1/26/2017	7/28/2016	1/20/2016	7/30/2015	1/14/2015	7/17/2014	1/13/2014	7/10/2013	1/9/2013	7/26/2012	1/19/2012	7/7/2011	1/19/2011	7/19/2010	1/5/2010	7/23/2009	1/14/2009	7/15/2008	1/8/2008	7/10/2007	2/14/2007	7/12/2006	7/21/2005	1/20/2005	7/16/2004	1/24/2004	7/19/2003	1/17/2003	7/15/2002	4/4/2002	4/3/2002	1/16/2002	7/16/2001	1/23/2001	1/23/2001 DUP
		Unit	Post-ISCO																								Pre-ISCO									
Field Parameters																																					
Conductivity	*	mS/cm	0.313	0.768	0.847	0.769	0.815	752	0.450	0.288	0.740	0.800	0.732	0.841	0.680	0.786	2.95	0.779	0.696	0.739	1.91	0.67	0.664	0.571	0.397	0.205	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	1.63	0.73	0.31	0.48	0.59	0.45	3.19	0.71	0.52	0.31	0.83	0.48	1.13	3.38	6.29	1.3	5.56	0.25	6.24	0.87	1.41	0.36	5.43	4.89	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	-15.6	66.6	33.3	231.9	34.3	118.6	-41.7	-14.6	291.8	112.9	23.5	89.0	232.6	112.2	510.2	3.2	304	437.2	478.3	124.1	528.9	273.4	14.7	-82	--	--	--	--	--	--	--	--	--	--	--	--
pH	*	SU	6.3	6.02	6.15	6.25	6.1	6.47	6.06	6.18	6.32	6.03	6.36	6.11	6.19	6.38	0.814	6.32	5.94	5.81	0.664	5.94	5.91	5.88	6.32	6.98	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	18.29	22.51	20.11	23.65	20.17	25.5	15.3	22.25	19.60	22.27	20.71	30.00	17.35	23.78	19.81	25.7	11.17	22.72	18.02	22.65	19.39	23.39	18.13	22.89	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	4.09	1.86	0.88	4.71	0.68	5.74	2.84	0.71	0.73	3.66	1.11	0.5	1.43	1.09	0.59	4.2	1.01	4.8	3.45	1.36	4.10	3.98	9.97	48.4	--	--	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																																					
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	253	410	443	467	170	220	3,200 B	2,600 B	2,400	780 JB	1,400	2,500	1,200	4,200	< 1,000	< 1,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.72	2.5	1.2	0.05 U	0.11	0.17	6.7 N	--	--	0.14	0.27	1.2	0.61
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	< 1.00	< 0.100	<0.100	<0.100	< 0.10 HF	< 0.10 HF	< 0.025 HF	< 0.025 HF	< 0.076 JHF	< 0.10 HF	< 0.10 HF	< 0.10 HF	< 0.10 HF	< 0.10	< 0.10	< 0.10	< 0.1	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.416	0.3	0.15	0.11	0.16	0.16	0.24	--	--	0.21	0.18	0.22	0.21
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	< 4	< 4	< 4	11	0.95	5.5	0.52 J	8.1	2.1	< 0.19	1.3	3.2	1.4	0.59	2.3	2.6	6.6	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	< 0.25	< 0.25	<0.25	<0.25	< 0.25	< 0.25	< 0.075	< 0.075	< 0.36	13	< 1.1	< 1.1	0.22	< 0.50	< 0.25	< 0.25	< 0.25	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	8.96 H	7.79 H	7.10 H	6.22 H	5.2	5.8	--	1.3	1.4	1.4	1.4	1.0	1.1	0.77	3.2	3.3	5.7	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	78	140	140	140	120	120	120	140	130	39	120	120	120	100	120	72	68	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																																					
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	< 100	< 50	< 50	< 50	50 U	**47**	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	< 0.25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.8**	1.0 U	**0.18 J**	1.0 U	1.0 U
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.0**	1.0 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	**0.17 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.37 J**	1.0 U	1.0 U
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.44 J**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	**0.89 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds																																					
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	<0.21	< 0.19	< 0.11	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	--	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	**16**	10 U	10 U	10 U
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.21	< 0.19	< 0.11	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	--	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	**0.082**	< 0.050	< 0.050	<0.21	< 0.19	< 0.11	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	--	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	**0.074**	< 0.050	< 0.050	<0.21	< 0.19	< 0.11	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	--	0.2 U	0.2 U	**0.6**	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	**0.065**	< 0.050	< 0.050	<0.21	< 0.19	< 0.11	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	--	0.2 U	0.2 U	**0.68**	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.21	< 0.19	< 0.11	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	--	0.2 U	0.2 U	**0.66**	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.21	< 0.19	< 0.11	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	--	0.2 U	0.2 U	**0.58**	0.2 U	10 U	10 U	**0.7 J**	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	**0.065**	< 0.050	< 0.050	<0.21	< 0.19	< 0.11	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	--	0.2 U	0.2 U	**0.5**	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	**0.067**	< 0.050	< 0.050	<0.21	< 0.19	< 0.049	< 0.045	< 0.048	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	--	0.2 U	0.2 U	**0.62**	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.21	< 0.19	< 0.11	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	--	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--	--	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.21	< 0.19	< 0.11	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	--	0.2 U	0.2 U	**0.94**	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.21	< 0.19	< 0.11	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	--	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	**1.6 J**	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	**0.064**	< 0.050	< 0.050	<0.21	< 0.19	< 0.11	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	--	0.2 U	0.2 U	**0.56**	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**3.3**	< 0.50	**0.55**	**1.1**	<0.21	< 0.19	< 0.11	< 0.10	**0.17 J**	**0.75**	< 0.19	< 0.19	< 0.19	**0.33**	< 10	< 10	< 10	--	0.2 U	0.2 U	**0.26**	0.2 U	10 U	10 U	10 U	10 U	**24**	10 U	10 U	10 U
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	**0.083**	< 0.050	< 0.050	<0.21	< 0.19	< 0.11	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	--	0.2 U	0.2 U	**0.36**	0.2 U	10 U	10 U	10 U	10 U	**0.99 J**	10 U	10 U	10 U
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	**0.084**	< 0.050	< 0.050	<0.21	< 0.19	< 0.11	< 0.10	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	--	0.2 U	0.2 U	**1.2**	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds																																					
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2.44**	**4.1**	**1.8**	0.2 U	**0.3**	**0.15 B**	**15**	--	--	**0.15 B**	**0.32**	**2.3 N**	**1.0 N**
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	--	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	--	--	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	<0.0500	< 0.05	< 0.05	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	--	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.0832**	**0.147**	**0.139**	**0.162**	**0.136**	**0.118**	**0.0678**	**0.141**	**0.140**	**0.174**	**0.15**	**0.19**	**0.16**	**0.20**	**0.19**	**0.24**	**0.23**	**0.26**	**0.28**	**0.31**	**0.331**	**0.306**	**0.178**	--	**0.31**	**0.15**	**0.078**	**0.058**	**0.06**	**0.059**	**0.23**	--	--	**0.048**	**0.042**	**0.088**	**0.069**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00030 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010	--	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	**0.00061 B**	--	--	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	--	--	0.005 U	**0.00082 B**	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**9.66**	**9.1**	**8.2**	**8.6**	**7.8**	**8.1**	**8.9**	--	--	**8.3**	**7.9**	**9.6**	**9.2**
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	< 0.0012	< 0.0012	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.02**	--	--	0.01 U	0.01 U	**0.0021 B**	0.01 U
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0027 B**	--	--	0.01 U	0.01 U	0.01 U	0.01 U
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	**0.0030 JB**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	< 0.010	< 0.010	--	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0045 B**	**0.017 B**	--	--	0.02 U	**0.0011 B**	**0.0041 B**	**0.0035 B**
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	**0.012**	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.010	**0.011**	< 0.010	< 0.010	**0.0089 J**	< 0.010	< 0.010	< 0.010	--	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	--	--	0.01 U	0.01 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0100	< 0.010	< 0.010	--	0.005 U	**0.021**	**0.018**	0.005 U	0.005 U	0.005 U	**0.009**	--	--	0.005 U	0.005 U	**0.0016 B**	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**6.47**	**6.8**	**5.9**	**6**	**6.5**	**6**	**7**	--	--	**6.1**	**5.6**	**6.9**	**6.6**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	--	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	--	--	0.0002 U	0.0002 U	0.00020 U	0.00020 U
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	< 0.0023	**0.0040 J**	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	**0.0017 J**	< 0.0200	< 0.02	< 0.02	--	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	**0.0083 B**	--	--	0.04 U	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2.51**	**2.6**	**2.3**	**2.1**	**2**	**2.2**	**2.8**	--	--	**2.1**	**2.0**	**2.2**	**2.1**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0056 B**	--	--	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**21.8**	**20**	**17**	**17**	**18**	**18**	**17**	--	--	**18**	**17**	**20**	**19**
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1	--	0.001 U	0.002 U	0.002 U	0.001 U	0.002 U	0.002 U	0.002 UWN	--	--	0.002 U	0.002 U	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0029 J**	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	**0.0039 J**	**0.0039 J**	< 0.0100	< 0.010	< 0.010	--	0.01 U	**0.021**	0.01 U	0.01 U	0.01 U	**0.0026 B**	**0.053**	--	--	**0.0025 B**	0.01 U	**0.0045 B**	**0.0029 B**
Zinc	2	mg/L	**0.0289**	< 0.02	< 0.02	**0.0281**	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	**0.0233**	0.020	0.020	< 0.0087	**0.011 J**	< 0.0087	**0.015 J**	<0.020	**0.057**	**0.036**	**0.014 J**	**0.0228**	< 0.02	< 0.02	--	**0.0232**	**0.056**	**0.05**	**0.039**	**0.06**	**0.033**	**0.035**	--	--	**0.041**	**0.012 B**	**0.013 B**	**0.011 B**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction	Location ID	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S	MW-408S
		Sample Date	1/25/2018	7/26/2017	1/26/2017	7/28/2016	1/21/2016	7/29/2015	1/15/2015	7/16/2014	1/9/2014	7/10/2013	1/8/2013	7/25/2012	1/18/2012	7/5/2011	1/20/2011	7/14/2010	1/12/2010	1/21/2009	1/21/2009 DUP	7/16/2008	1/8/2008	7/10/2007	7/13/2006	7/13/2006 DUP	1/15/2006	1/15/2006 DUP	7/20/2005	2/7/2005	7/13/2004	1/24/2004	7/19/2003	1/16/2003	7/11/2002
		Unit	Post-ISCO																										Pre-ISCO						
Field Parameters																																			
Conductivity	*	mS/cm	1.038	0.95	1.165	1.522	1.071	1517	1.6	1.541	1.241	1.299	1.059	0.797	0.662	1.509	1.51	1.492	1.676	0.3	1.214	1.235	1.210	0.991	1.112	1.112	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSi)	*	mg/L	0.14	0.08	0.24	0.1	0.18	0.95	0.71	0.12	0.23	1.14	0.51	0.51	0.43	0.19	6.67	5.75	0.73	6.51	0.3	0.49	0.30	1.18	0.3	0.3	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	-87.4	-107.3	-105.5	-90	-93.2	-125.2	-153.6	-119.4	-121.7	9.5	-97.5	-76.9	-40.0	-106.9	-105.1	-106.4	-83.7	-106	-106	-125.7	-103.4	-95.3	-104.4	-104.4	--	--	--	--	--	--	--	--	--
pH	*	SU	6.55	6.65	6.77	6.73	6.62	6.37	7.36	6.46	6.92	6.83	6.62	6.64	6.19	6.32	1.321	6.41	7.48	1.214	6.51	6.44	6.49	6.60	6.58	6.58	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	19.22	25.42	20.52	23.88	20.03	26	11.8	22.64	18.55	24.01	17.52	26.40	19.97	23.54	18.65	23.94	20.21	18.13	18.13	23.87	20.65	22.57	23.37	23.37	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	9.68	6.97	3.07	2.82	2.17	9.64	22.1	9.92	3.72	1.11	1.72	2.84	8.8	9.62	14.0	102.8	1.28	3	3	6.24	1.80	7.28	4.33	4.33	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																																			
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.8	19.6	18.3	98	22	32	19	35	28
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.711	0.606	0.638	1.6	0.62	0.66	0.52	0.70	0.72
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																																			
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	**5.9 J**	< 5.0	**14 J**	< 100	< 100	< 100	< 100	< 50	< 50	50 R	50 R	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	< 0.25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	5 U	10 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**0.13 J**	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	5 U	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.45 J**
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	**3.4 JB**	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	**0.90 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**3.6 J**	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Semivolatile Organic Compounds																																			
2-Methylnaphthalene	*	µg/L	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.02 U	0.02 U	0.02 U	**0.34**	0.02 U	**0.033**	**0.02**	**0.034**	0.02 U
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.19	< 0.19	**65**	< 0.10	< 0.096	< 0.19	< 0.19	**0.086 J**	**0.089 J**	< 0.19	< 10	< 10	10 U	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.19	< 0.19	< 0.11	< 0.10	< 0.096	< 0.19	< 0.19	**0.031 J**	**0.031 J**	< 0.19	< 10	< 10	10 U	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	**0.051**	< 0.050	< 0.050	< 0.19	< 0.19	**0.90**	< 0.10	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	10 U	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	**0.050**	< 0.19	< 0.19	< 0.11	< 0.10	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	<0.050	<0.050	0.05 U	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	**0.055**	< 0.19	< 0.19	< 0.11	< 0.10	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	<0.050	<0.050	0.05 U	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.11	< 0.10	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	<0.10	<0.10	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.11	< 0.10	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	10 U	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	**0.057**	< 0.19	< 0.19	< 0.11	< 0.10	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	10 U	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.048	< 0.046	< 0.043	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	<0.050	<0.050	0.05 U	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.11	< 0.10	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	<0.10	<0.10	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	< 0.1	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.26**	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	**0.30**	< 0.10	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	10 U	10 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.40**	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	**3.3**	< 0.10	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	10 U	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	**0.059**	< 0.19	< 0.19	< 0.11	< 0.10	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	<0.050	<0.050	0.05 U	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5 UJ	< 0.5	**1.2**	< 0.50	**44**	< 0.50	< 0.50	< 0.19	**3.6**	**0.59**	< 0.10	**0.12 J**	< 0.19	**0.35**	**1.3**	**1.4**	< 0.19	< 10	< 10	10 U	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.050	**0.088**	< 0.050	< 0.050	< 0.19	< 0.19	**5.8**	< 0.10	< 0.096 *	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	10 U	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.096**	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	**0.23**	< 0.10	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	10 U	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Inorganic Compounds																																			
Aluminum (fume or dust)	*	mg/L	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**--**	--	--	--	--	**2.29**	**2.2**	**1.1**	**120**	**3.8**	**12**	**0.7**	**12**	**0.032 B**
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.020	0.02 U	0.02 U	0.01 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.020 U	0.02 U
Arsenic	0.05	mg/L	**0.0651**	**0.111**	**0.148**	< 0.05	**0.253**	< 0.05	**0.222**	**0.143**	**0.210**	< 0.0500	**0.39**	**0.21**	< 0.0046	**0.031**	**0.018 J**	**0.017 JB**	**0.22**	**0.043**	**0.043**	**0.041**	**0.0509**	**0.0439**	**0.126**	**0.123**	**0.0697**	**0.0723**	**0.142**	**0.069**	**0.056**	**0.058**	**0.02**	**0.079**	**0.044**
Barium	2	mg/L	**0.441**	**0.311**	**0.33**	**0.645**	**0.517**	**0.599**	**0.444**	**0.451**	**0.289**	**0.201**	**0.38**	**0.45**	**0.54**	**0.62**	**0.60**	**0.55**	**0.58**	**0.44**	**0.45**	**0.35**	**0.341**	**0.302**	**0.447**	**0.438**	**0.467**	**0.453**	**0.397**	**1.7**	**0.56**	**0.58**	**0.44**	**0.72**	**0.58**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00030 JB**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	0.01 U	0.01 U	0.005 U	0.005 U	0.004 U	**0.0054**	0.004 U	0.004 U	0.004 U	**0.00073 B**	0.004 U
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.005 U	0.005 U	0.002 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U
Calcium metal	*	mg/L	**80**	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**71.7**	**75.6**	**89.2**	**89**	**79**	**80**	**78**	**88**	**79**
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	< 0.0012	**0.0015 J**	**0.0012 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	0.01 U	0.01 U	0.005 U	0.005 U	0.01 U	**0.14**	0.01 U	**0.013**	0.01 U	**0.013**	0.01 U
Cobalt	*	mg/L	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.007 U	0.007 U	0.01 U	**0.035**	0.01 U	0.01 U	0.01 U	**0.0032 B**	0.01 U
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	**0.0028 JB**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	< 0.010	0.01 U	0.01 U	0.025 U	0.025 U	0.02 U	**0.11**	0.02 U	0.02 U	0.02 U	**0.014 B**	**0.0011 B**
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	**0.013**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	**0.0051 J**	< 0.010	< 0.010	0.01 U	0.01 U	--	--	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.010 U	0.01 U
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0100	< 0.010	0.01 U	0.01 U	**0.0041**	**0.0057**	0.005 U	**0.23**	**0.0063**	**0.034**	0.005 U	**0.032**	0.005 U
Magnesium	*	mg/L	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**71.9**	**78**	**77.5**	**89**	**82**	**83**	**79**	**97**	**91**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	**0.0013**	0.0002 U	0.0002 U	0.0002 U	**0.00016 B**	0.0002 U
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	**0.0025 J**	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.0200	< 0.020	0.02 U	0.02 U	0.04 U	0.04 U	0.04 U	**0.051**	0.04 U	0.04 U	0.04 U	**0.0058 B**	0.04 U
Potassium	*	mg/L	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**22.8**	**23.3**	**20.5**	**27**	**25**	**26**	**29**	**28**	**27**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0200	< 0.020	0.02 U	0.02 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.01**	0.010 U	0.01 U
Sodium	*	mg/L	--	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**69.5**	**70.5**	**59.1**	**60**	**86**	**86**	**70**	**100**	**100**
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.0020 UWN	0.004 UN
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.01 U	0.01 U	**0.0075**	**0.0088**	0.01 U	**0.22**	**0.012**	**0.025**	0.01 U	**0.026**	**0.0034 B**	--	--
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	**0.069**	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	0.02 U	0.02 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	--	--

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-408D	MW-408D	MW-408D	MW-408D	MW-408D	MW-408D	MW-408D	MW-408D	MW-408D	MW-408D	MW-408D	MW-408D	MW-408D	MW-408D	MW-408D	MW-408D	MW-408D	MW-408D	MW-408D	MW-408D	MW-408D	MW-408D	MW-408D
		Sample Date	7/14/2010	1/5/2010	7/22/2009	1/15/2009	7/16/2008	1/8/2008	7/10/2007	2/13/2007	2/13/2007 DUP	7/13/2006	7/13/2006 DUP	1/15/2006	7/20/2005	2/7/2005	7/13/2004	1/24/2004	7/19/2003	1/16/2003	7/12/2002	1/15/2002	1/15/2002	7/17/2001	1/17/2001	1/17/2001 DUP
		Unit	Post-ISCO												Pre-ISCO										
Field Parameters																									
Conductivity	*	mS/cm	0.784	0.640	0.841	0.230	0.838	0.928	0.785	0.822	0.822	0.718	0.718	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	2.61	2.07	2.11	6.26	0.37	0.31	0.68	0.52	0.52	0.7	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	-65.2	-19.3	-60.6	-74.2	-67	-89.8	-70.3	-71.4	-71.4	-65.8	-65.8	--	--	--	--	--	--	--	--	--	--	--	--
pH	*	SU	6.48	5.94	6.49	0.772	6.33	6.47	6.42	6.59	6.59	6.41	6.41	--	--	--	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	24.1	16.76	25.75	18.39	23.05	19.70	21.75	19.19	19.19	22.77	22.77	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	*	NTU	21.7	8.91	4.81	8.3	9.68	1.35	6.25	1.63	1.63	3.13	3.13	--	--	--	--	--	--	--	--	--	--	--	--
Monitored Natural Attenuation Parameters																									
Carbon Dioxide	*	µg/L	660 JB	540	590 *	510	580	< 1,000	< 1,000	--	--	410	420	--	--	--	--	--	--	--	--	--	--	--	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	37.9	36.1	38.2	36.2	36	35	33	35	37	54	57 N	58 N	45	41	40
Iron, as Ferrous (Fe+2)	*	mg/L	15 HF	26 HF	25 HF	13 HF	26	39.6	38.7	36.5	37.4	36.8	37	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	4.42	4.36	4.4	4.15	4.5	4.7	4.7	4.2	4.8	4.6	4.8	4.8	4.4	4.8	4.8
Manganese, Dissolved	*	mg/L	--	--	--	--	--	--	--	--	--	3.65 J	3.58 J	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	*	µg/L	1,600	1,900	2,200	2,200	600	2,100	2,000	2,000	1,800	1,700	1,700	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	< 1.1	< 1.1	< 1.1	< 0.050	< 0.50	< 0.25	< 0.25	< 0.25	< 0.25	0.25 U	0.25 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen	*	mg/L	--	--	--	--	--	--	--	--	--	18	18	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrogen, ammonia (as N)	*	mg/L	--	--	--	--	--	--	--	--	--	0.74	0.74	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	1.3	1.3	1.1	1.3	1.6	2.1	1.9	1.5	2.6	1.2	1.1	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1	< 1	1 U	1 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	2 U	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																										
Acetone	4,000	µg/L	**8.1 J**	< 100	< 100	< 100	< 100	< 50	< 50	< 50 R	< 50	50 R	50 R	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	**0.47 J**	< 5.0	< 5.0	< 5	< 5	< 5	5 U	5 U	**1.8**	**4.2**	**13**	**2.3**	**1.9**	**3.0**	**2.4**	**2.8**	**4.6**	**4.0**	**6.2**	**2.3**	**2.4**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5 J	< 5	5 U	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.48 JB**	**0.54 JB**
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	5 U	5 U	1.0 U	1.0 U	**8.6**	1.0 U	1.0 U	1.0 U	**0.2 J**	**2.7**	**9.3**	**8.3**	**12**	**1.1**	**1.7**
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	5 U	5 U	1.0 U	1.0 U	**1.1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.9**	**0.32 J**	**0.35 J**
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	**8.8**	**11**	**8.2**	**12**	**8.4**	**9.3**	< 5	**8.1**	**8.3**	5 U	5 U	**4.7**	**7.7**	**14**	**7.0**	**6.8**	**13**	**8.9**	**18**	**34**	**32**	**36**	**6.3**	**6.9**
Semivolatile Organic Compounds																										
2-Methylnaphthalene	*	µg/L	--	--	--	--	**--**	--	--	--	--	--	--	**26**	**27**	**36**	**26**	**26**	**30**	**37**	**12**	**60**	**59**	**38**	**25**	**24**
Acenaphthene	2,000	µg/L	**58**	**80**	**79**	**48**	**43**	**54**	**52**	**52**	**54**	**40**	**43**	**41**	**25**	**25**	**46**	**31**	**30**	**34**	**37**	**44**	**45**	**33**	**41**	**38**
Acenaphthylene	10	µg/L	**0.66**	< 1.9	< 0.21	< 3.8	< 0.19	< 10	< 10	< 10	< 10	10 U	10 U	2.0 U	2.0 U	0.8 U	1.0 U	2.0 U	10 U	10 U	10 U	**0.61 J**	10 U	**10**	10 U	10 U
Anthracene	10	µg/L	**1.6**	**2.4**	**2.8**	**1.5 J**	**2**	< 10	< 10	< 10	< 10	10 U	10 U	**1.7**	**1.1**	**0.84**	**1.3**	**1.2**	10 U	**1.2 J**	**0.97 J**	**0.96 J**	**1.4 J**	**0.79 J**	**1.2 J**	**1.4 J**
Benz(a)anthracene	0.1	µg/L	< 0.20	< 1.9	< 0.21	< 3.8	**0.053 J**	< 0.050	< 0.05	< 0.05	< 0.05	0.05 U	0.05 U	2.0 U	2.0 U	0.8 U	1.0 U	2.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.20	< 1.9	< 0.21	< 3.8	**0.037 J**	< 0.050	< 0.05	< 0.05	< 0.05	0.05 U	0.05 U	2.0 U	2.0 U	0.8 U	1.0 U	2.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.20	< 1.9	< 0.21	< 3.8	**0.1**	< 0.10	< 0.1	< 0.1	< 0.1	0.1 U	0.1 U	2.0 U	2.0 U	0.8 U	1.0 U	2.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.20	< 1.9	< 0.21	< 3.8	< 0.19	< 10	< 10	< 10	< 10	10 U	10 U	2.0 U	2.0 U	0.8 U	1.0 U	2.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.20	< 1.9	< 0.21	< 3.8	< 0.19	< 10	< 10	< 10	< 10	10 U	10 U	2.0 U	2.0 U	0.8 U	1.0 U	2.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.20	< 1.9	< 0.21	< 3.8	**0.064 J**	< 0.050	< 0.05	< 0.05	< 0.05	0.05 U	0.05 U	2.0 U	2.0 U	0.8 U	1.0 U	2.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.20	< 1.9	< 0.21	< 3.8	< 0.19	< 0.10	< 0.1	< 0.1	< 0.1	0.1 U	0.1 U	2.0 U	2.0 U	0.8 U	1.0 U	2.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	**1.5**	**1.1**	0.8 U	1.0 U	**1.4**	10 U	**1.6 J**	**1.9 J**	**2.1 J**	**2.3 J**	**1.6 J**	**2.0 J**	**2.0 J**
Fluoranthene	1,000	µg/L	**0.57**	< 1.9	**0.82**	**0.44 J**	**0.72**	< 10	< 10	< 10	< 10	10 U	10 U	**0.57**	**0.37**	0.8 U	1.0 U	**0.4**	10 U	**0.41 J**	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	**11**	**16**	**16**	**10**	**11**	**11**	**11**	**11**	**11**	10 U	10 U	**9.0**	**6.0**	**5.4**	**8.9**	**7.7**	10 U	**7.0 J**	**7.7 J**	**8.8 J**	**9.6 J**	**6.1 J**	**8.3 J**	**7.6 J**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.20	< 1.9	< 0.21	< 3.8	**0.023 J**	< 0.050	< 0.05	< 0.05	< 0.05	0.05 U	0.05 U	2.0 U	2.0 U	0.8 U	1.0 U	2.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	**0.34**	< 1.9	< 0.21	**1.1 JB**	**0.31**	< 10	< 10	< 10	< 10	10 U	10 U	**1.0**	**7.3**	**52**	**1.7**	**4.2**	**15**	**15**	10 U	**41**	**39**	**33**	**5.8 J**	**5.4 J**
Phenanthrene	10	µg/L	**12**	**15**	**17**	**9.6**	**11**	**11**	**12**	**11**	**12**	10 U	10 U	**9.5**	**6.2**	**5**	**9.3**	**6.6**	10 U	**6.9 J**	**4.3 J**	**5.8 J**	**7.4 J**	**5.2 J**	**8.1 J**	**8.3 J**
Pyrene	1,000	µg/L	**0.5**	< 1.9	**0.84**	**0.52 J**	**0.64**	< 10	< 10	< 10	< 10	10 U	10 U	**0.56**	**0.36**	0.8 U	1.0 U	**0.37**	10 U	10 U	**0.57 J**	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds																										
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	**0.32**	0.2 U	**0.056 B**	**10**	**11 N**	**11 N**	**4.9 N**	**1.6**	**1.1**
Antimony	0.01	mg/L	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	< 0.02	0.02 U	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.020 U	0.02 U	0.020 U	0.020 U	0.02 U	**0.0062 B**	**0.0066 B**
Arsenic	0.05	mg/L	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	<0.0500	< 0.05	< 0.05	< 0.05	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.010 U	0.010 U	**0.0037 B**	0.01 U	0.01 U
Barium	2	mg/L	**0.64**	**0.62**	**0.64**	**0.66**	**0.63**	**0.627**	**0.628**	**0.667**	**0.671**	**0.696**	**0.687**	**0.684**	**0.628**	**0.7**	**0.74**	**0.72**	**0.6**	**0.72**	**0.72**	**0.76**	**0.77**	**0.68**	**0.69**	**0.7**
Beryllium	0.004	mg/L	**0.00023 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010	< 0.010	0.01 U	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.004 U	0.0040 U	0.0040 U	0.004 U	**0.0023 B**	**0.0017 B**
Cadmium	0.005	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	0.005 U	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	0.0050 U	0.0050 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	**55.2**	**54.1**	**53**	**56**	**61**	**50**	**56**	**53**	**52**	**53**	**50**	**53**	**52**
Chromium	0.1	mg/L	**0.0021 J**	< 0.010	< 0.010	**0.0013 J**	< 0.010	< 0.0100	< 0.010	< 0.010	< 0.010	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	**0.0035 B**	**0.0041 B**	**0.0038 B**	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	-	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0056 B**	**0.013**	**0.013**	**0.013**	**0.0089 B**	**0.0053 B**	**0.005 B**
Copper	1.3	mg/L	**0.0033 J**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	< 0.010	< 0.010	< 0.010	0.01 U	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.020 U	**0.018 B**	**0.020 B**	**0.020**	**0.0076 B**	0.02 U	**0.0014 B**
Cyanide	0.2	mg/L	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	**0.017**	< 0.002	< 0.002	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.010 U	0.01 U	0.010 U	0.010 U	0.01 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0100	< 0.010	< 0.010	< 0.010	0.01 U	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	**0.0026 B**	**0.0046 B**	**0.0046 B**	0.005 U	**0.0031 B**	**0.0028 B**
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	**31.5**	**29.2**	**29**	**30**	**32**	**27**	**31**	**33**	**33**	**34**	**30**	**28**	**28**
Mercury	0.002	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U	0.00020 U	0.00020 U	0.0002 U	0.00020 U	0.00020 U
Nickel	0.1	mg/L	< 0.040	< 0.040	< 0.040	**0.0018 J**	**0.0017 J**	< 0.0200	< 0.02	< 0.02	< 0.02	0.02 U	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.040 U	**0.0069 B**	**0.0069 B**	**0.0076 B**	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	5 U	**3.64**	**4.8**	**4**	**6.5**	**3.8**	**5.0**	**4.1**	**4.0**	**3.9**	**3.7**	**4.2**	**4.2**
Selenium	0.05	mg/L	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02	< 0.02	0.02 U	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.010 U	0.010 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	**23**	**23.5**	**22**	**23**	**24**	**22**	**22**	**21**	**22**	**22**	**21**	**21**	**21**
Thallium	0.002	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1	< 1	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.0020 UWN	0.002 UWN	0.0020 U	0.0020 U	0.002 UN	0.002 UW	0.002 U
Vanadium (fume or dust)	0.2	mg/L	**0.0097 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	< 0.010	0.01 U	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	**0.045**	**0.050**	**0.052**	**0.022**	**0.0072 B**	**0.0059 B**
Zinc	2	mg/L	**0.013 J**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	< 0.02	**0.0224**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.03**	0.020 U	**0.052**	**0.075**	**0.066**	**0.031**	**0.011 B**	**0.0082 B**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-408DR	MW-408DR	MW-408DR	MW-408DR	MW-408DR	MW-408DR	MW-408DR	MW-408DR	MW-408DR	MW-408DR	MW-408DR	MW-408DR	MW-408DR	MW-408DR	MW-408DR
		Sample Date	1/25/2018	7/26/2017	1/26/2017	7/29/2016	1/21/2016	7/29/2015	1/15/2015	7/16/2014	1/8/2014	7/10/2013	1/8/2013	7/25/2012	1/25/2012	7/5/2011	2/23/2011
		Unit	Post-ISCO														
Field Parameters																	
Conductivity	*	mS/cm	0.602	0.689	0.681	0.703	0.595	786	1.310	0.645	0.630	0.755	0.597	0.390	0.170	0.619	3.360
Dissolved Oxygen (YSI)	*	mg/L	0.19	0.19	0.22	0.19	0.19	1.1	0.84	0.10	0.22	0.05	0.53	4.20	0.31	0.08	5.68
Oxidation Reduction Potential	*	mV	15.8	-34.9	-39.8	-12.1	-57	-60.1	-103.5	-83.8	-55.5	-53.7	-61.8	-13.5	-136.0	-50.9	89.2
pH	*	SU	5.79	6.07	6.07	5.83	6.01	5.89	6.29	6.12	6.21	5.98	6.08	6.03	6.71	6.03	0.682
Temperature	*	Celsius	18.71	24.52	20.88	25.57	20.03	24.7	13.70	21.10	18.61	21.17	18.05	24.35	19.98	21.79	20.79
Turbidity	*	NTU	21.1	34	7.54	10.3	3.04	23.3	20.1	20.0	35.2	23.4	9.00	21.2	8.53	23.2	9.92
Monitored Natural Attenuation Parameters																	
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	137	192	272	235	130	140	2,200 B	1,500 B	1,600
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	3.85	39.7	45.1	51.8	46 HF	25 HF	0.79 HF	19 HF	13 HF
Methane	*	µg/L	--	--	--	--	--	--	6,600	6800	6,700	6,800	7,500	3,000 *	860	2,400	3,700
Nitrate	*	mg/L	--	--	--	--	--	--	< 0.25	< 0.25	<0.25	<0.25	< 0.25	< 0.25	< 0.25	< 0.075	< 0.36
Oxygen	*	mg/L	--	--	--	--	--	--	7.78 H	4.68 H	4.12 H	4.34 H	4.5	5	--	1.4	1.5
Sulfate	*	mg/L	--	--	--	--	--	--	< 1.0	< 1.0	<1.0	<1.0	< 5.0	< 5.0	250	< 2.6	< 2.6
Volatile Organic Compounds																	
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	**19 J**
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	**0.80 J**	< 0.25
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	**3.3 J B**	< 1.0
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	**0.38 J**
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	**2.2 J**	**2.8 J**
Semivolatile Organic Compounds																	
Acenaphthene	2,000	µg/L	**20**	**37**	**36**	**24**	**29**	**22**	< 0.50	**41**	**32**	**17**	**32**	**30**	< 0.11	**32**	**16**
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.40**	< 1.9	< 0.11	< 0.15	**0.22**
Anthracene	10	µg/L	**0.48**	**0.94**	**0.92**	**0.59**	**0.74**	**0.69**	< 0.050	**0.9**	**0.83**	**0.39**	**0.87**	< 1.9	< 0.11	**1.0**	**0.21**
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.22	< 1.9	< 0.11	< 0.15	< 0.094
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.22	< 1.9	< 0.11	< 0.15	< 0.094
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.22	< 1.9	< 0.11	< 0.15	< 0.094
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.22	< 1.9	< 0.11	< 0.15	< 0.094
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.22	< 1.9	< 0.11	< 0.15	< 0.094
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.22	< 1.9	< 0.11	< 0.15	< 0.094
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.22	< 1.9	< 0.11	< 0.15	< 0.094
Fluoranthene	1,000	µg/L	**0.14**	**0.3**	**0.24**	**0.14**	**0.22**	**0.16**	< 0.10	**0.23**	**0.23**	**0.10**	**0.23**	< 1.9	< 0.11	**0.29**	< 0.094
Fluorene	1,000	µg/L	**0.73**	**1.5**	**1.5**	**0.87**	**1.3**	**1.2**	< 0.10	**1.9**	**2**	**1.3**	**2.7**	**2.2**	< 0.11	**4.0**	**2.0**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.22	< 1.9	< 0.11	< 0.15	< 0.094
Naphthalene	20	µg/L	< 0.5	**0.76**	< 0.5	< 0.5	< 0.5	**0.63**	< 500	**31**	**0.57**	< 0.50	**0.27**	< 1.9	**0.57**	**0.24 J**	**0.23**
Phenanthrene	10	µg/L	**2.8**	**7.1**	**5.5**	**3.5 J**	**4.4**	**4.2**	< 0.50	**3.7**	**5.3**	**2.5**	**5.8**	**5.1**	< 0.11	**7.3**	**1.5**
Pyrene	1,000	µg/L	**0.11**	**0.24**	**0.19**	**0.12**	**0.16**	**0.15**	< 0.050	**0.15**	**0.16**	**0.065**	<0.22	< 1.9	< 0.11	**0.21 J**	< 0.094
Inorganic Compounds																	
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.429**	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	**0.045**	< 0.0046	< 0.0046
Barium	2	mg/L	**0.508**	**0.553**	**0.555**	**0.589**	**0.572 JH**	**0.551**	**0.448**	**0.496**	**0.575**	**0.569**	**0.56**	**0.58**	**0.26**	**0.52**	**0.50**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.00020
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	**0.0018 J**	**0.0013 J**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	< 0.0019
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	**0.0063 J**	**0.024**	< 0.0050
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	**0.000092 J**
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	< 0.0023	**0.0024 J**	**0.0030 J**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024
Zinc	2	mg/L	**0.023**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	**0.132**	< 0.0200	< 0.0200	**0.038**	< 0.020	< 0.0087	< 0.0087	**0.018 J**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S	MW-501S
		Sample Date	1/25/2018	1/25/2018 DUP	7/27/2017	7/27/2017 DUP	1/26/2017	1/26/2017 DUP	7/28/2016	7/28/2016 DUP	1/21/2016	1/21/2016 DUP	7/30/2015	1/15/2015	7/17/2014	1/13/2014	7/10/2013	1/9/2013	7/26/2012	1/19/2012	7/7/2011	1/19/2011	7/19/2010	1/5/2010	1/14/2009	7/15/2008	1/8/2008	2/14/2007
		Unit	Post-ISCO																								
Field Parameters																											
Conductivity	*	mS/cm	0.554	0.554	0.424	0.424	0.416	0.416	0.579	0.579	0.598	0.598	739	0.642	0.510	0.546	0.840	0.693	0.782	0.748	0.730	6.080	0.903	0.832	0.869	0.971	1.101	1.058
Dissolved Oxygen (YSI)	*	mg/L	0.43	0.43	0.15	0.15	0.35	0.35	0.18	0.18	0.56	0.56	0.22	0.90	0.21	1.27	0.23	0.30	0.52	0.35	0.27	6.76	0.76	4.45	0.91	1.25	0.33	2.58
Oxidation Reduction Potential	*	mV	2.5	2.5	-62.5	-62.5	29	29	-42.2	-42.2	21.3	21.3	-34.7	65.4	-165.2	142.8	-53.3	19.6	52.0	-56.3	-55.8	309.7	-58.2	-20.5	24.4	24	67.4	14.6
pH	*	SU	6.8	6.8	6.54	6.54	6.68	6.68	6.46	6.46	6.59	6.59	6.76	6.35	6.45	6.65	6.29	6.57	6.29	6.46	6.50	0.142	6.53	6.15	6.55	6.41	6.31	6.49
Temperature	*	Celsius	14.92	14.92	25.94	25.94	17.52	17.52	25.8	25.8	16.72	16.72	27.7	12.4	23.98	17.47	23.38	19.34	28.30	18.89	24.02	16.39	26.56	12.01	16.37	23.88	19.16	16.44
Turbidity	*	NTU	1.38	1.38	1.45	1.45	6.13	6.13	7.01	7.01	8.7	8.7	0.86	8.60	7.06	6.46	1.52	0.61	1.0	68.0	1.25	8.93	5.0	3.77	4.78	1.8	2.95	4.52
Monitored Natural Attenuation Parameters																												
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	323	406	393	425	110	96	2,200	1,400 B	120	940 B	1,100	1,700	4,200	< 1000	< 1000
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	< 0.100	0.48	3.20	3.2	0.80 HF	< 0.10 HF	2.6	3.2 HF	0.074 JHF	<0.10 HF	1.2 HF	0.38 HF	0.56	0.25	< 1.0
Methane	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	< 4	170	28	97	9.8	1.7	21	7.0	< 0.19	3.6	31	16	2.2	9.9	19
Nitrate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.075	< 0.075	< 0.36	<1.1	<1.1	0.030 J	<0.50	< 0.25	0.63
Oxygen	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	8.62 H	7.4 H	7.39 H	6.71 H	6.1	7.9	1.2	2.1	1.6	1.1	1.4	1.1	0.80	2.1	5.7
Sulfate	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	61	62	89	81	75	82	80	81	11	140	160	150	150	160	150
Volatile Organic Compounds																												
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	**7.6 J**	< 50	< 50
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**35**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	< 0.25	**0.37 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	**1.9 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 50	< 5.0	5.3	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	**0.20 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 50	< 5.0	**7.4**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	**0.91 J**	< 5.0	< 5.0	< 5.0	**0.4 J**	< 5.0	< 5.0
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 50	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																												
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	<0.20	< 0.19	< 0.094	< 0.097	< 0.095	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.20	< 0.19	< 0.094	< 0.097	< 0.095	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.20	< 0.19	< 0.094	< 0.097	< 0.095	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.20	< 0.19	< 0.094	< 0.097	< 0.095	< 0.20	< 0.19	< 0.19	**0.031 J**	<0.050	<0.050
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.20	< 0.19	< 0.094	< 0.097	< 0.095	< 0.20	< 0.19	< 0.19	< 0.19	<0.050	<0.050
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.20	< 0.19	< 0.094	< 0.097	< 0.095	< 0.20	< 0.19	< 0.19	< 0.19	<0.10	<0.10
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.20	< 0.19	< 0.094	< 0.097	< 0.095	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.20	**0.20**	< 0.094	< 0.097	< 0.095	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.20	< 0.19	< 0.042	< 0.044	< 0.043	< 0.20	< 0.19	< 0.19	< 0.19	<0.050	<0.050
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.20	< 0.19	< 0.094	< 0.097	< 0.095	< 0.20	< 0.19	< 0.19	< 0.19	<0.10	<0.10
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.20	< 0.19	< 0.094	< 0.097	< 0.095	< 0.20	< 0.19	< 0.19	**0.050 J**	< 10	< 10
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.20	< 0.19	< 0.094	< 0.097	< 0.095	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.20	< 0.19	< 0.094	< 0.097	< 0.095	< 0.20	< 0.19	< 0.19	< 0.19	<0.050	<0.050
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**5.0**	< 0.50	< 0.50	< 0.50	<0.20	< 0.19	**0.21**	< 0.097	< 0.095	< 0.20	< 0.19	< 0.19	**0.21**	< 10	< 10
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.50	< 0.050	< 0.050	< 0.050	<0.20	< 0.19	< 0.094	< 0.097	< 0.095	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.055**	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.20	< 0.19	< 0.094	< 0.097	< 0.095	< 0.20	<0.19	**0.023 J**	**0.063 J**	< 10	< 10
Inorganic Compounds																												
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	**0.0053 J**	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.0200
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	**0.0073 J**	< 0.0046	< 0.0046	< 0.020	< 0.010	< 0.010	< 0.010	< 0.0500	< 0.0500
Barium	2	mg/L	**0.093**	**0.0813**	**0.0796**	**0.0804**	**0.0453**	**0.0516**	**0.15**	**0.173**	**0.106**	**0.105**	**0.152**	**0.103**	**0.165**	**0.117**	**0.184**	**0.17**	**0.15**	**0.25**	**0.17**	**0.015**	**0.14**	**0.19**	**0.12**	**0.13**	**0.0754**	**0.290**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00028 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.0100
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.0153**	< 0.0050	**0.0375**	< 0.0050	<0.0050	**0.0083**	**0.0085**	< 0.0020	**0.012**	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0023 J**	**0.0015 J**	**0.0026 J**	**0.0016 J**	<0.010	**0.0016 J**	**0.0020 J**	< 0.0100	**0.0296**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	**0.014 JB**	**0.0022 J**	< 0.020	< 0.020	< 0.020	< 0.0100	**0.0403**
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.010	**0.018**	< 0.010	**0.0070 J**	< 0.010	< 0.010
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0100	**0.0342**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	< 0.0023	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.0200	< 0.0200
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.010	< 0.010	< 0.010	**0.0045 J**	< 0.0200	< 0.0200
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	**0.0020 J**	< 1.00	< 1.00
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0045 J**	< 0.0024	**0.0029 J**	< 0.010	< 0.010	< 0.010	**0.0020 J**	< 0.0100	**0.0387**
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0308 J**	**0.0221 J**	**0.0276**	< 0.0200	< 0.0200	**0.043**	**0.0265**	< 0.020	< 0.020	**0.033**	< 0.0087	**0.026**	**0.010 J**	<0.020	**0.032**	< 0.020	< 0.0200	**0.0939**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-502D	MW-502D	MW-502D	MW-502D	MW-502D	MW-502D	MW-502D	MW-502D	MW-502D	MW-502D	MW-502D	MW-502D	MW-502D	MW-502D	MW-502D	MW-502D	MW-502D	MW-502D	MW-502D	MW-502D
		Sample Date	1/14/2014	1/14/14 DUP	1/10/2013	1/13/13 DUP	7/25/2012	7/20/12 DUP	1/19/2011	01/11/11 DUP	7/7/2011	1/19/2011	7/19/2010	1/12/2010	1/10/10 DUP	7/23/2009	1/21/2009	7/21/2008	1/8/2008	7/10/2007	07/07/07 DUP	2/14/2007
		Unit	Post-ISCO																			
Field Parameters																						
Conductivity	*	mS/cm	0.626	0.626	1.157	1.157	0.707	0.707	0.690	0.690	0.693	0.890	0.800	0.709	0.709	0.69	0.350	0.677	0.819	0.642	0.642	0.794
Dissolved Oxygen (YSI)	*	mg/L	0.27	0.27	0.33	0.33	0.66	0.66	1.00	1.00	0.30	6.11	0.46	0.15	0.15	0.08	5.95	0.28	0.23	0.41	0.41	1.66
Oxidation Reduction Potential	*	mV	-48.5	-48.5	-106.8	-106.8	-46.0	-46.0	-43.7	-43.7	-27.0	-60.6	-87.4	-18.2	-18.2	-40.9	-40	-48.7	-48.1	-12.0	-12.0	-30
pH	*	SU	6.02	6.02	6.52	6.52	6.12	6.12	6.04	6.04	5.46	0.713	6.25	6.73	6.73	5.9	0.629	5.86	5.88	5.88	5.88	6.02
Temperature	*	Celsius	20.32	20.32	15.30	15.30	23.85	23.85	21.50	21.50	25.93	19.65	27.39	17.29	17.29	23.33	18.42	25.86	21.87	23.16	23.16	20.39
Turbidity	*	NTU	8.70	8.70	79.30	79.30	>999	>999	9.70	9.70	67.6	289	67	NM	NM	6.5	3	9.36	63.2	68.3	68.3	2.34
Monitored Natural Attenuation Parameters																						
Carbon Dioxide	*	µg/L	621	713	270	270	400	370	7,100 B	7,000 B	5,500 B	4,600	4,500 B	4,700	4,300	4,600	4,400	3,900	< 1000	< 1000	< 1000	--
Iron, as Ferrous (Fe+2)	*	mg/L	45	52.5	14 HF	14 HF	48 HF	44 HF	52 HF	55 HF	56 HF	28 HF	50 HF	59 HF	59 HF	59 HF	36 HF	31	78.0	67.6	70.5	76.2
Methane	*	µg/L	8,700	16,000	10,000	9,500	9,300	11,000	7,100	7,800	6,500	8300	7400	14000	14000	12000	10000	3300	9,100	11,000	12,000	15,000
Nitrate	*	mg/L	< 0.25	< 0.25	< 2.5	< 2.5	< 0.25	< 0.25	< 0.25	< 0.25	< 0.075	< 0.36	< 1.1	< 1.1	< 1.1	< 1.1	< 0.050	< 0.50	< 0.25	< 0.25	< 0.25	< 0.25
Oxygen	*	mg/L	< 1.00	1.01 H	2.0	2.3	1.5	2.1	1.2	1.1	0.82	0.84	0.81	0.74	0.87	0.53	0.75	0.49	0.73	1.0	0.72	0.24 J
Sulfate	*	mg/L	< 1.0	< 1.0	< 100	< 100	< 5.0	< 5.0	< 2.6	< 2.6	< 2.6	< 2.6	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	1.3	< 1.0	< 1
Volatile Organic Compounds																						
Acetone	4,000	µg/L	< 50	< 50	< 2,000	< 2,000	< 2,000	< 100	< 100	< 250	< 100	< 100	< 1000	< 2000	< 2000	< 2000	< 2000	< 1000	**120**	< 5,000 J	< 5,000 J	< 50
Benzene	5	µg/L	**430**	**450**	**430**	**400**	**410**	**370 D**	**440**	**510**	**420**	**530**	**430**	**720**	**690**	**500**	**430**	**680**	**1,300**	**660**	**660**	**1,000**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 100	<100	< 100	< 5.0	< 12	< 30	< 12	< 12	< 50	< 100	< 100	< 100	< 100	< 50	< 5.0	< 5	< 5	< 5
Ethylbenzene	700	µg/L	**1,500**	**1,600**	**2,600**	**2,700**	**1,100**	**850 D**	**1,600**	**1,600**	**1,400**	**1,700**	**1000**	**1900**	**1800**	**1400**	**1100**	**1800**	**1,400**	**2,400**	**2,400**	**3,300**
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 100	<100	< 100	< 5.0	< 20	< 50	< 20	< 20	< 100	< 100	< 100	< 100	< 100	< 50	< 5.0	< 5	< 5	< 5
Toluene	1,000	µg/L	**67**	**69**	**170**	**210**	< 100	**54**	**72 J**	**120 J**	**110**	**140**	**120**	**250**	**230**	**160**	**170**	**280**	**310**	**390**	**400**	**860**
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 100	<100	< 100	< 5.0	< 2.6	< 6.5	< 2.6	< 2.6	< 50	< 100	< 100	< 100	< 100	< 50	< 5.0	< 5	< 5	< 5
Xylenes, total	2,000	µg/L	**1,000**	**1,100**	**2,400**	**2,600**	**780**	**520**	**1,200**	**1,200**	**1,100**	**1,600**	**880**	**1800**	**1800**	**1200**	**1000**	**1600**	**2,100**	**2,300**	**2,400**	**3,700**
Semivolatile Organic Compounds																						
Acenaphthene	2,000	µg/L	**130**	**130**	**3,800**	**6,200**	< 190	190	**200**	**180**	**140**	**4,300**	**110**	**570**	**120**	**110**	**63**	**49**	**83**	**79**	**92**	**110**
Acenaphthylene	10	µg/L	**13**	**13**	**1,900**	**3,100**	< 190	< 190	**67**	**39**	**88**	**2,700**	**53**	**640**	**130**	**82**	**44**	**46**	**64**	**61**	**71**	**130**
Anthracene	10	µg/L	**7.4**	**7.4**	**2,000**	**3,200**	< 190	< 190	**43**	**11**	**39**	**2,800**	**14**	**400**	**49**	**22**	6.5 J	4.4	< 10	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	**1.5**	**1.6**	**1,300**	**2,100**	< 190	< 190	**35**	**2.9**	**25**	**1,300**	**6.6**	**210**	<19	**12**	< 38	< 4.2	**1.1**	**1.0**	**1.1**	**0.14**
Benzo(a)pyrene	0.2	µg/L	**1.4**	**1.4**	**1,100**	**1,900**	< 190	< 190	**35**	**3.0**	**20**	**1,200**	**5.4**	**190**	<19	**7.9**	< 38	< 4.2	**0.85**	**0.53**	**0.59**	**0.16**
Benzo(b)fluoranthene	0.2	µg/L	**1**	**1**	**1,100**	**1,800**	< 190	< 190	**27**	**2.4**	< 2.0	**520**	< 1.9	<100	<19	**7.9**	< 38	< 4.2	**0.58**	**0.48**	**0.51**	**0.1**
Benzo(g,h,i)perylene	10	µg/L	**0.61**	**0.61**	**330**	**530**	< 190	< 190	**14**	**1.5 J**	**5.7**	**380**	1.7 J	<100	<19	< 3.8	< 38	< 4.2	< 10	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	**0.4**	**0.47**	<21	<22	< 190	< 190	**13**	**1.1 J**	**16**	**720**	**3.3**	<100	<19	< 3.8	< 38	< 4.2	< 10	< 10	< 10	< 10
Chrysene	0.2	µg/L	**1.1**	**1.2**	**960**	**1,600**	< 190	< 190	**28**	**2.6**	**19**	**1,100**	**5.3**	**190**	<19	**10**	< 38	< 4.2	**0.78**	**0.58**	**0.62**	**0.16**
Dibenzo(a,h)anthracene	0.3	µg/L	**0.13**	**0.14**	**130**	<22	< 190	< 190	**4.5**	< 1.1	**2.1 J**	< 110	< 1.9	<100	<19	< 3.8	< 38	< 4.2	<0.1	<0.1	< 10	< 0.1
Fluoranthene	1,000	µg/L	**4.1**	**4**	**2,400**	**3,800**	< 190	< 190	**53**	**7.9**	**37**	**2,500**	**12**	**410**	**36**	**23**	**4.0 J**	**1.6**	< 10	< 10	< 10	< 10
Fluorene	1,000	µg/L	**38**	**38**	**3,000**	**5,100**	< 190	< 190	**92**	**63**	**130**	**4,600**	**55**	**650**	**82**	**67**	**25 J**	**25**	**34**	**34**	**40**	**50**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	**0.49**	**0.51**	**330**	**480**	< 190	< 190	**12**	**1.3 J**	**5.5**	**310**	1.5 J	<100	<19	< 3.8	< 38	< 4.2	**0.30**	**0.22**	**0.23**	**0.11**
Naphthalene	20	µg/L	**4,900**	**4,300**	**29,000**	**50,000**	**4,100**	**4,700**	**6,300**	**7,700**	**3,900**	**46,000**	**3,400**	**9,200**	**6,100**	**5,200**	**3,100**	**3,300**	**4,300**	**4,100**	**4,000**	**4,800**
Phenanthrene	10	µg/L	**38**	**37**	**7,700**	**13,000**	< 190	< 190	**170**	**65**	**170**	**7,800**	**67**	**1,200**	**140**	**89**	**30 J**	**23**	**34**	**31**	**37**	**51**
Pyrene	1,000	µg/L	**6.3**	**6.3**	**3,700**	**6,100**	< 190	< 190	**68**	**10**	**72**	**3,800**	**20**	**670**	**47**	**40**	5.4 J	**2.4**	< 10	< 10	< 10	< 10
Inorganic Compounds																						
Antimony	0.01	mg/L	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.0053	**0.0070 J**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	< 0.02
Arsenic	0.05	mg/L	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.0500	< 0.05	< 0.05	< 0.05
Barium	2	mg/L	**0.671**	**0.665**	**0.59**	**0.58**	**0.68**	**0.67**	**0.66**	**0.71**	**0.64**	**0.63**	**0.74**	**0.68**	**0.69**	**0.74**	**0.66**	**0.68**	**0.612**	**0.648**	**0.632**	**0.694**
Beryllium	0.004	mg/L	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.00020	**0.00050 J**	**0.00052 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	**0.00020 J**	< 0.0100	< 0.010	< 0.010	< 0.010
Cadmium	0.005	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.00062	< 0.0050	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010	< 0.010	**0.0019 J**	**0.0020 J**	**0.0045 J**	**0.0085 J**	**0.023**	<0.010	<0.010	**0.046**	**0.0017 JB**	**0.0021 J**	< 0.0100	< 0.010	< 0.010	< 0.010
Copper	1.3	mg/L	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0019	< 0.0019	**0.0027 J**	**0.0080 JB**	**0.015 J**	<0.020	<0.020	**0.039**	< 0.020	< 0.020	< 0.0100	< 0.010	< 0.010	< 0.010
Cyanide	0.2	mg/L	**0.012**	**0.018**	**0.013**	**0.012**	**0.011**	**< 0.010**	**0.0080 J**	**0.010**	**0.014**	**0.012**	**0.01**	**0.016**	**0.013**	**0.018**	**0.012**	**0.014**	**0.013**	< 0.010	< 0.010	0.008
Lead	0.015	mg/L	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0100	< 0.010	< 0.010	< 0.010
Mercury	0.002	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.0200	< 0.0200	< 0.040	< 0.040	< 0.040	< 0.040	< 0.0023	< 0.0023	**0.0049 J**	**0.0047 J**	**0.0072 J**	< 0.040	< 0.040	< 0.040	**0.0017 J**	**0.0030 J**	< 0.0200	< 0.02	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1.00	< 1
Vanadium (fume or dust)	0.2	mg/L	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0024	< 0.0024	**0.0030 J**	**0.0063 J**	**0.02**	**0.014**	<0.010	**0.047**	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	< 0.010
Zinc	2	mg/L	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0087	< 0.0087	< 0.0087	**0.013 J**	**0.023**	<0.020	<0.020	**0.048**	< 0.020	< 0.020	< 0.0200	**0.0354**	**0.0256**	< 0.02

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D	MW-505D
		Sample Date	1/23/2018	7/25/2017	1/24/2017	7/26/2016	1/19/2016	7/29/2015	1/15/2015	7/15/2014	1/8/2014	7/11/2013	1/8/2013	7/26/2012	1/24/2012	7/5/2011	07/11/11 DUP	1/18/2011	7/14/2010	1/6/2010	7/28/2009	07/09/09 DUP	1/20/2009	01/09/09 DUP	7/15/2008	1/9/2008	7/11/2007	2/15/2007
		Unit	Post-ISCO																								
Field Parameters																											
Conductivity	*	mS/cm	0.632	0.53	0.58	0.611	0.535	654	0.434	0.660	0.591	0.631	0.523	0.565	0.307	0.558	0.558	2.240	0.540	0.432	0.538	0.538	4.420	4.420	0.514	0.607	0.554	0.649
Dissolved Oxygen (YSI)	*	mg/L	0.24	0.19	0.27	1.81	0.32	0.26	0.29	0.10	0.90	0.22	0.44	1.32	3.82	0.23	0.23	6.4	0.64	0.51	3.17	3.17	6.1	6.1	0.23	0.22	0.28	0.64
Oxidation Reduction Potential	*	mV	-33.2	-5.2	-58.9	-35.4	-48.1	-44.2	-67	-67.3	-37.8	-44.8	8.7	-33.0	-18.2	-34.9	-34.9	-47.8	-167.7	2.9	-9.0	-9.0	100	100	-179.4	-59.0	-9.6	-35.0
pH	*	SU	6.11	5.71	6.25	6.71	6.09	6.1	6.07	6.15	6.15	6.14	6.05	6.26	6.29	6.15	6.15	0.484	6.18	6.82	6.28	6.28	0.422	0.422	6.08	6.11	6.08	6.15
Temperature	*	Celsius	19.53	20.89	19.46	19.93	18.88	29.7	15.7	22.37	18.21	21.77	17.92	22.01	20.25	23.87	23.87	17.63	22.14	14.21	22.53	22.53	15.99	15.99	22.56	19.12	22.09	17.49
Turbidity	*	NTU	1.37	2.7	1.37	2.43	2.22	8.59	9.8	6.69	7.15	4.40	0.70	3.01	8.71	5.77	5.77	22.9	6.7	5.23	5.8	5.8	2.9	2.9	9.63	5.28	4.2	6.87
Monitored Natural Attenuation Parameters																												
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	499	285	632	375	240	140	2,600 B	2,400 B	2,200 J B	2,100	2,100 B	1,400	1,800 *	1,800 *	910	1,100	1,600	< 1,000	< 1,000	--
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	23.4	38.1	30.6	31.6 H	27 HF	14 HF	5.8 HF	13 HF	13 HF	23 HF	21 HF	23 HF	6.2 HF	7.3 HF	< 0.10 HF	< 0.10 HF	19	23.4	29.0	28.5
Methane	*	µg/L	--	--	--	--	--	--	9,800	7,000	6,400	6,900	6,100	1,500	1,100	1,900	1,300	2,500	1700	1400	440	< 0.19	270	1000	350	1,000	2,900	2,400
Nitrate	*	mg/L	--	--	--	--	--	--	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.075	0.12 J	< 0.075	< 0.36	< 1.1	< 1.1	< 1.1	< 1.1	< 0.050	< 0.050	< 0.50	< 0.25	< 0.25	< 0.25
Oxygen	*	mg/L	--	--	--	--	--	--	7.58 H	4.81 H	6.54 H	5.10 H	4.6	6.3	1.6	1.4	1.5	1.2	1.3	2.0	1.1	1.1	1.4	1.4	1.0	1.6	0.99	1.5
Sulfate	*	mg/L	--	--	--	--	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 2.6	3.9 J	4.0 J	5.3	8.2	11	16	17	18	17	21	30	20	17
Volatile Organic Compounds																												
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	**5.5 J**	< 5.0	< 5.0	**7.8 J**	< 100	< 100	< 100	< 100	< 100	< 100	< 50	< 50	< 50
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**2.2 J**	**2.2 J**	**2.5 J**	**2.5 J**	**1.8 J**	< 5.0	< 5.0	< 5.0	**1.8 J**	**2.6 J**	**3.1 J**	< 5.0	< 5	< 5
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60 *	< 0.60	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**5.9**	**13**	**34**	**67**	**64**	**79**	< 5.0	**0.35 J**	**0.17 J**	**0.21 J**	**0.25 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	**3.4 J B ***	**2.8 J B**	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	**0.58 J**	**0.53 J**	< 5.0	< 5.0	< 5	< 5
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**11**	< 5.0	< 0.33	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**6.8**	**14**	**59**	**43**	**61**	< 5.0	**0.96 J**	**0.31 J**	**0.55 J**	**0.91 J**	**0.27 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Semivolatile Organic Compounds																												
Acenaphthene	2,000	µg/L	**93**	**16**	**16**	**14**	**11**	**9.5**	< 0.50	**47**	**55**	**56**	**6.6**	**36**	**87**	**51**	**71**	**63**	**36**	**48**	**51 D**	**52 D**	**29**	**34**	**54**	**53**	**37**	**33**
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.1**	**2.5**	< 2.0	**7.7**	**7.6**	**14**	**18**	**17**	**14**	**23**	**26 D**	**25 D**	**16**	**17**	**14**	**40**	**20**	**20**
Anthracene	10	µg/L	**0.28**	**0.22**	**0.32**	**0.25**	**0.28**	**0.31**	< 0.050	**0.8**	**1.3**	**1.0**	< 2.0	< 1.9	**0.54**	**0.16 J**	**0.26**	**0.14 J**	< 0.19	<0.99	< 0.19	< 0.20	**0.056 J**	**0.055 J**	**0.064 J**	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	**0.29**	< 0.050	< 0.050	< 2.0	< 1.9	< 0.11	< 0.15	< 0.10	< 0.096	< 0.19	<0.99	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.051**	**0.16**	< 0.050	< 0.050	< 2.0	< 1.9	< 0.11	< 0.15	< 0.10	< 0.096	< 0.19	<0.99	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	**0.36**	< 0.10	< 0.10	< 2.0	< 1.9	< 0.11	< 0.15	< 0.10	< 0.096	< 0.19	<0.99	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.11**	< 0.10	< 0.10	< 0.10	< 2.0	< 1.9	< 0.11	< 0.15	< 0.10	< 0.096	< 0.19	<0.99	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	**0.3**	< 0.050	< 0.050	< 2.0	< 1.9	< 0.11	< 0.15	< 0.10	< 0.096	< 0.19	<0.99	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	**0.38**	< 0.050	< 0.050	< 2.0	< 1.9	< 0.048	< 0.068	< 0.10	< 0.043	< 0.19	<0.99	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.11**	**0.31**	< 0.10	< 0.10	< 2.0	< 1.9	< 0.11	< 0.15	< 0.10	< 0.096	< 0.19	<0.99	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1
Fluoranthene	1,000	µg/L	**0.45**	**0.41**	**0.53**	**0.4**	**0.39**	**0.27**	< 0.10	**0.8**	**1.1**	**1.3**	< 2.0	< 1.9	**0.92**	**0.70**	**0.90**	**0.78**	**0.59**	**1.1**	**0.87**	**0.8**	**0.3**	**0.37**	**0.31**	< 10	< 10	< 10
Fluorene	1,000	µg/L	**1.6**	**2.2**	**2.6**	**2.4**	**2.0**	**1.9**	< 0.10	**6.1**	**9.5**	**12**	< 2.0	**5.3**	**13**	**10**	**14**	**10**	**3.5**	**5.4**	**7.1**	**7.2**	**3.9**	**4.5**	**5.2**	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.10**	**0.054**	< 0.050	< 0.050	< 2.0	< 1.9	< 0.11	< 0.15	< 0.10	< 0.096	< 0.19	<0.99	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05
Naphthalene	20	µg/L	**130**	**59**	**17**	**78**	**51**	**70**	**4.2**	**590**	**840**	**870**	**83**	**49**	**15**	**5.0**	**6.3**	**4.5**	0.18 J	<0.99	< 0.19	< 0.20	**2.3**	**2.3**	**0.16 J**	< 10	< 10	< 10
Phenanthrene	10	µg/L	**1.4**	**1.4**	**1.8**	**1.5**	**1.7**	**1.6**	< 0.50	**4.1**	**8.1**	**7.1**	< 2.0	< 1.9	**2.7**	**0.70**	**1.2**	**0.49**	< 0.19	<0.99	< 0.19	< 0.20	**0.058 J**	**0.061 J**	**0.074 J**	< 10	< 10	< 10
Pyrene	1,000	µg/L	**0.69**	**0.65**	**0.83**	**0.58**	**0.58**	**0.38**	< 0.050	**0.99**	**1.2**	**1.1**	< 2.0	< 1.9	**0.87**	**0.67**	**0.93**	**0.84**	**0.66**	**1.1**	**0.98**	**0.92**	**0.3**	**0.33**	**0.35**	< 10	< 10	< 10
Inorganic Compounds																												
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.010	<0.0500	< 0.05	< 0.05
Barium	2	mg/L	**0.333**	**0.446**	**0.502**	**0.553**	**0.425**	**0.383**	**0.342**	**0.468**	**0.373**	**0.395**	**0.34**	**0.32**	**0.23**	**0.45**	**0.42**	**0.33**	**0.46**	**0.44**	**0.44**	**0.44**	**0.3**	**0.36**	**0.33**	**0.314**	**0.458**	**0.436**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	< 0.0012	< 0.0012	**0.0012 J**	**0.0012 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	< 0.010	< 0.010
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	**0.026**	**0.0057 J**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	**0.0051 J**	< 0.010	< 0.010	< 0.010	< 0.010
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0100	< 0.010	< 0.010
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	< 0.0023	**0.0092 J**	**0.0033 J**	< 0.0023	**0.0035 J**	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.0200	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0046 J**	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0781**	**0.0202**	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	**0.022**	< 0.0087	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	< 0.020	**0.013 J**	**0.010 J**	< 0.020	< 0.0200	< 0.02	< 0.02

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
Bold = Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
< - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Gaillard, and Saprolite Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

| Chemical Name | Type 1 Risk Reduction Standard | Location ID | MW-600 | MW-600 | MW-600

APPENDIX E-2

SUMMARY OF HISTORICAL GROUNDWATER SAMPLING DATA – TRANSITION ZONE AND BEDROCK MONITORING WELLS

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213
		Sample Date	7/27/2017	1/25/2017	7/27/2016	1/20/2016	7/28/2015	1/13/2015	7/15/2014	1/8/2014	7/10/2013	1/9/2013	7/25/2012	1/18/2012	7/5/2011	1/19/2011	7/13/2010	1/12/2010	7/22/2009	1/20/2009	7/23/2008	1/10/2008	8/21/2007**	7/11/2007	2/13/2007	10/3/2006	4/4/2002
		Unit	Post-Extraction					During Extraction																	Pre-Extraction	
Volatile Organic Compounds																											
Acetone	4,000	µg/L	< 2500	< 500	< 500	< 50	< 2500	< 50	< 50	<2,500	< 50	< 5,000	< 5,000	< 250	< 250	< 250	< 5000	< 5000	< 1000	< 1000	< 5000	< 50	< 5,000	< 50	< 50	50 U	--
Benzene	5	µg/L	**7800**	**7500**	**7200**	**7400**	**8400**	**8,900**	**950**	**6,000**	**7,100**	**8,300**	**6,500**	**5,100**	**6,700**	**6,000**	**5,100**	**6,500**	**4,500**	**870**	**4,600**	**4,300**	**2,500**	--	**750**	5 U	1.0 U
Carbon Disulfide	4,000	µg/L	< 250	< 50	< 50	< 5.0	< 250	< 5.0	< 5.0	<250	< 5.0	< 250	< 250	< 30	< 30 *	< 30	< 250	< 250	< 50	< 50	< 250	< 5.0	< 500	< 5	< 5	5 U	--
Ethylbenzene	700	µg/L	**1200**	**1600**	**1400**	**1500**	**1500**	**1,500**	**110**	**1,300**	**1,300**	**1,600**	**1,100**	**1,000**	**1,200**	**1,400**	**1,100**	**1,700**	**1,300**	**260**	**930**	**1,300**	**740**	--	**470**	5 U	1.0 U
Methylene Chloride	5	µg/L	**290**	< 50	< 50	< 5.0	< 250	< 5.0	< 5.0	<250	< 5.0	< 250	< 250	< 50	< 50	< 50	< 250	< 250	< 50	< 50	< 250	< 5.0	< 500	< 5	< 5	5 U	5.0 U
Toluene	1,000	µg/L	< 250	**180**	**230**	**290**	**490**	**460**	**59**	**800**	**720**	**640**	**670**	**710**	**960**	**950**	**810**	**1,700**	**1,400**	**5.3 J**	**1,400**	**1,700**	**1,200**	--	**590**	5 U	1.0 U
Trichloroethylene	5	µg/L	< 250	< 50	< 50	< 5.0	< 250	< 5.0	< 5.0	<250	< 5.0	< 250	< 250	< 6.5	< 6.5	< 6.5	< 250	< 250	< 50	< 50	< 250	< 5.0	< 500	< 5	< 5	5 U	1.0 U
Xylenes, total	2,000	µg/L	**520**	**910**	**860**	**930**	**900**	**1,300**	**95**	**1,300**	**1,800**	**1,400**	**1,100**	**950**	**1,100**	**1,500**	**1100**	**2100**	**1500**	**330**	**1200**	**1,500**	**1,600**	--	**370**	5 U	--
Semivolatile Organic Compounds																											
2-Methylnaphthalene	*	µg/L	**--**	**--**	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**--**	--	--	--	**--**	--	--
Acenaphthene	2,000	µg/L	**77**	**98**	**93**	**60**	**64**	**180**	**9.1**	**52**	**63**	< 220	< 210	**67**	**32**	**25**	**29**	**54**	**58**	**28**	**16**	**35 J**	--	**20**	**15**	10 U	10 U
Acenaphthylene	10	µg/L	**49**	**39**	**45**	**37**	**95**	**180**	< 1.0	<1,000	**82**	< 220	< 210	**170**	**86**	**53**	**38**	**98**	**100**	**2.6**	**55**	**140 J**	--	**81**	**40**	10 U	**0.81 J**
Anthracene	10	µg/L	**2.6**	**3.8**	**3.2**	**2.6**	**3.2**	**7.9**	**0.43**	**3.1**	**2.7**	< 220	< 210	**4.1**	**2.3**	< 10	**1.1 J**	**2.8**	< 9.7	**0.27 J**	< 9.7	< 10	--	< 10	< 10	10 U	10 U
Benzo(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	0.068	< 0.05	< 0.5	< 0.05	**0.058**	< 0.05	< 220	< 210	< 0.096	< 0.095	< 10	< 1.9	< 1.9	< 9.7	< 1.9	< 9.7	< 0.05	--	< 0.05	< 0.05	0.05 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 220	< 210	< 0.096	< 0.095	< 10	< 1.9	< 1.9	< 9.7	< 1.9	< 9.7	< 0.05	--	< 0.05	< 0.05	0.05 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 220	< 210	< 0.096	< 0.095	< 10	< 1.9	< 1.9	< 9.7	< 1.9	< 9.7	< 0.10	--	< 0.1	< 0.1	0.1 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 220	< 210	< 0.096	< 0.095	< 10	< 1.9	< 1.9	< 9.7	< 1.9	< 9.7	< 10	--	< 10	< 10	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 220	< 210	< 0.096	< 0.095	< 10	< 1.9	< 1.9	< 9.7	< 1.9	< 9.7	< 10	--	< 10	< 10	10 U	10 U
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 220	< 210	< 0.043	< 0.043	< 4.5	< 1.9	< 1.9	< 9.7	< 1.9	< 9.7	< 0.05	--	< 0.05	< 0.05	0.05 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 220	< 210	< 0.096	< 0.095	< 10	< 1.9	< 1.9	< 9.7	< 1.9	< 9.7	< 0.1	--	< 0.1	< 0.1	0.1 U	10 U
Dibenzofuran	1	µg/L	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**--**	--	--	--	--	--	--
Fluoranthene	1,000	µg/L	**0.51**	**0.57**	**0.53**	**0.55**	**0.73**	**1.3**	< 0.10	**0.77**	**0.59**	< 220	< 210	**1.1 J**	**0.40**	< 10	< 1.9	< 1.9	< 9.7	< 1.9	< 9.7	< 10	--	< 10	< 10	10 U	10 U
Fluorene	1,000	µg/L	**15**	**18**	**18**	**10**	**15**	**51**	**1.3**	**15**	**23**	< 220	< 210	**20**	**20**	**11 J**	**9.4**	**24**	**25**	**3.5**	**8.5 J**	**21 J**	--	< 10	< 10	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 220	< 210	< 0.096	< 0.095	< 10	< 1.9	< 1.9	< 9.7	< 1.9	< 9.7	< 0.05	--	< 0.05	< 0.05	0.05 U	10 U
Naphthalene	20	µg/L	**5400**	**6200**	**6000**	**4700**	**7100**	**14,000**	< 0.50	**6,400**	**6,700**	**5,900**	**6,000**	**1,600 D**	**4,200**	**4,400**	**2,400**	**6,500**	**8,500**	**850**	**3,700**	**7,600 J**	--	**3,600**	**2,500**	10 U	**5.9 J**
Phenanthrene	10	µg/L	**20**	**21**	**21**	**15**	**21**	**52**	**0.83**	**23**	**22**	< 220	< 210	**34**	**18**	**12 J**	**7.3**	**21**	**24**	**1.2 J**	**6.7 J**	**17 J**	--	< 10	< 10	10 U	**1.2 J**
Pyrene	1,000	µg/L	**0.52**	**0.62**	**0.52**	**0.51**	**0.75**	**1.3**	< 0.05	**0.75**	**0.57**	< 220	< 210	**1.1 J**	**0.47**	< 10	< 1.9	< 1.9	< 9.7	< 1.9	< 9.7	<10	--	< 10	< 10	10 U	10 U
Inorganic Compounds																											
Aluminum (fume or dust)	*	mg/L	**--**	**--**	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	--	< 0.02	< 0.02	0.02 U	--
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.05	--	< 0.05	< 0.05	0.05 U	--
Barium	2	mg/L	**1.04**	**0.916**	**1.08**	**1.05**	**0.961**	**0.927**	**0.658**	**0.846**	**0.912**	**0.90**	**0.96**	**0.87**	**0.89**	**0.85**	**0.79**	**0.95**	**0.82**	**0.62**	**0.85**	**0.815**	--	**0.626**	**0.573**	**0.155**	--
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00033 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.004	< 0.01	--	< 0.01	< 0.01	0.01 U	--
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	--	< 0.005	< 0.005	0.005 U	--
Calcium metal	*	mg/L	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**--**	--	--	--	--	--	--
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0012	< 0.0012	**0.0017 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	--	< 0.01	< 0.01	0.01 U	--
Cobalt	*	mg/L	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**--**	--	--	--	--	--	--
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.0019	< 0.0019	**0.0033 JB**	< 0.020	< 0.020	< 0.020	**0.016 J**	< 0.02	< 0.01	--	< 0.01	< 0.01	0.01 U	--
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.014**	< 0.01	**0.016**	< 0.01	**0.015**	**0.021**	**0.017**	**0.034**	**0.010**	**0.011**	< 0.010	< 0.010	< 0.010	**0.0094 J**	< 0.01	--	< 0.002	< 0.002	0.01 U	--
Iron	*	mg/L	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.005	< 0.01	--	< 0.01	< 0.01	0.01 U	--
Magnesium	*	mg/L	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**--**	--	--	--	--	--	--
Manganese	*	mg/L	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**--**	--	--	--	--	--	--
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	--	< 0.0002	< 0.0002	0.0002 U	--
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04	< 0.04	**0.0024 J**	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.04	< 0.02	--	< 0.02	< 0.02	0.02 U	--
Potassium	*	mg/L	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	**--**	**--**	**--**	**--**	**--**	--	--	--	--	--	--
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.02	--	< 0.02	< 0.02	0.02 U	--
Sodium	*	mg/L	--	--	**--**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**--**	--	--	--	--	--	--
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 1.00	--	< 1.00	< 1	0.001 U	--
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	**0.0024 J**	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	--	< 0.01	< 0.01	0.01 U	--
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	**0.011 J**	< 0.0087	< 0.0087	< 0.02	< 0.020	< 0.020	**0.012 J**	< 0.02	< 0.02	--	< 0.02	< 0.02	0.02 U	--

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
Detection Limit exceeds the Type I RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-305	MW-305	MW-305	MW-305	MW-305	MW-305	MW-305	MW-305	MW-305
		Sample Date	1/21/2005	7/15/2004	1/23/2004	7/17/2003	1/15/2003	7/10/2002	1/21/2002	7/16/2001	1/24/2001
		Unit	Pre-Extraction								
Volatile Organic Compounds											
Acetone	4,000	µg/L	120 U	120 U	120 U	25 U	120 U	120 U	120 U	120 U	25 U
Benzene	5	µg/L	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	**0.59 J**	5.0 U	**0.13 J**
Carbon Disulfide	4,000	µg/L	5.0 U	5.0 U	5.0 U	1.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	1.0 U
Ethylbenzene	700	µg/L	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.24 J**
Methylene Chloride	5	µg/L	25 U	25 U	25 U	5.0 U	25 UJ	25 U	25 U	25 U	5.0 U
Toluene	1,000	µg/L	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Trichloroethylene	5	µg/L	**39**	**34**	**36**	**44**	**32**	**3**	**32**	**36**	**34**
Xylenes, total	2,000	µg/L	10 U	10 U	10 U	2.0 U	10 U	10 U	10 U	10 U	2.0 U
Semivolatile Organic Compounds											
2-Methylnaphthalene	*	µg/L	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	µg/L	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	0.1	µg/L	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds											
Aluminum (fume or dust)	*	mg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.20 U	**0.24**	0.2 U	**0.045 B**	**0.051 B**
Antimony	0.01	mg/L	0.02 U	0.006 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.098**	**0.11**	**0.1**	**0.1**	**0.10**	**0.1**	**0.11**	**0.099**	**0.099**
Beryllium	0.004	mg/L	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	**24**	**23**	**24**	**22**	**23**	**24**	**24**	**23**	**23**
Chromium	0.1	mg/L	0.01 U	0.01 U	0.01 U	0.01 UJ	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	**0.0050 B**	**0.0066 B**	**0.004 B**	**0.0042 B**	**0.0034 B**
Copper	1.3	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.0011 U	0.02 U	**0.0013 B**	0.02 U	0.02 U
Cyanide	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.015 U	0.010 UJ	**0.04**	0.01 U	0.01 U	0.01 U
Iron	*	mg/L	0.05 U	0.05 U	0.05 U	0.04 U	**0.031 B**	**0.34**	**0.048 B**	**0.062**	**0.034 B**
Lead	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	**0.002 B**	0.005 U	0.005 U
Magnesium	*	mg/L	**13**	**12**	**12**	**12**	**12**	**12**	**13**	**12**	**12**
Manganese	*	mg/L	**0.66**	**0.61**	**0.66**	**0.61**	**0.66**	**0.68**	**0.72**	**0.82**	**0.68**
Mercury	0.002	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.040 U	0.04 U	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	**2.6**	**2.7**	**2.4**	**2.8**	**2.4**	**2.5**	**2.5**	**2.4**	**2.4**
Selenium	0.05	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	**53**	**56**	**50**	**53**	**54**	**51**	**57**	**55**	**55**
Thallium	0.002	mg/L	0.002 U	0.001 U	0.001 U	0.002 U	0.0020 UJ	0.002 UWN	0.002 U	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	**0.003 B**	**0.0025 B**	**0.0029 B**	0.01 U
Zinc	2	mg/L	0.02 U	0.02 U	0.02 U	**0.02**	0.020 U	0.02 U	**0.0067 B**	0.02 U	**0.012 B**

Notes:
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ISCO - *in-situ* chemical oxidation
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Data Qualifier Defintions:
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RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR
		Sample Date	1/23/2018	1/23/2018 DUP	7/25/2017	7/25/2017 DUP	1/24/2017	1/24/2017 DUP	7/26/2016	7/26/2016 DUP	1/20/2016	1/20/2016 DUP	7/29/2015	1/14/2015	7/15/2014	1/8/2014	7/9/2013	1/9/2013	7/25/2012	1/17/2012	7/5/2011	1/20/2011	7/20/2010	1/7/2010	7/22/2009	1/19/2009	7/16/2008	1/8/2008	7/10/2007	2/24/2007	2/24/2007 DUP
		Unit	Post-Extraction											During Extraction																
Volatile Organic Compounds																														
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 50	< 25	< 25	< 1000	< 1000	< 1000	< 1000	< 100	< 50	< 50	< 50 R	< 50
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**300**	**500**	< 5.0	< 5.0	**68**	**720**	**390**	**480**	**730**	**1,000**	**1,500**	**1,400**	**810**	< 5.0	**3,200**	**7,300**	**7,300**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 6.0	< 3.0 *	< 3.0	< 50	< 50	< 50	< 50	< 5.0	< 5.0	< 5	< 5	< 5
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**4.6 J**	**1.1 J**	**1.3 J**	**2.8 J**	< 50	< 50	< 50	**1.6 J**	< 5.0	**5.5**	**260**	**270**
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 5.0	< 50	< 50	< 50	< 50	< 5.0	< 5.0	< 5	< 5 UJ	< 5
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 3.3	< 1.7	< 1.6	< 50	< 50	< 50	< 50	**0.5 J**	< 5.0	< 5	**5.3**	**5.2**
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.3	< 0.65	< 0.65	< 50	< 50	< 50	< 50	< 5.0	< 5.0	< 5	< 5	< 5
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	**5.7**	**6.0**	**5.7**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**5.6 J**	**3.0 J**	**7.9 J**	**17 J**	< 50	< 50	17 J	**11**	< 5.0	**66**	**210**	**200**
Semivolatile Organic Compounds																														
Acenaphthene	2,000	µg/L	**14**	**16**	**17**	**16**	**14**	**15**	**8.3**	**9.2**	**8.4**	**8.9**	**7.5**	**5.3**	**11**	< 0.50	< 0.50	**3.2**	**5.2**	**5.1**	**11**	**9.3**	**29**	**16**	**21**	**9.1 J***	**13**	< 10	**27**	**37**	**37**
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	**14**	< 1.0	<0.20	< 3.8	< 0.10	**0.17 J**	< 0.10	**38**	**0.21**	< 1.9	< 20 *	< 1.9	< 10	< 10	< 10	< 10
Anthracene	10	µg/L	**0.25**	**0.26**	**0.27**	**0.28**	**0.31**	**0.33**	**0.13**	**0.14**	**0.15**	**0.15**	**0.074**	**0.062**	**0.14**	**0.16**	< 0.05	<0.20	< 3.8	< 0.10	**0.22 J**	**0.14 J**	**1.1 J**	**0.27**	< 1.9	< 20 *	< 1.9	< 10	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.20	< 3.8	< 0.10	< 0.13	< 0.10	< 1.9	< 1.9	< 1.9	< 20	< 1.9	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.20	< 3.8	< 0.10	< 0.13	< 0.10	< 1.9	< 1.9	< 1.9	< 20	< 1.9	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.20	< 3.8	< 0.10	< 0.13	< 0.10	< 1.9	< 1.9	< 1.9	< 20	< 1.9	< 0.10	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.20	< 3.8	< 0.10	< 0.13	< 0.10	< 1.9	< 1.9	< 1.9	< 20	< 1.9	< 10	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.20	< 3.8	< 0.10	< 0.13	< 0.10	< 1.9	< 1.9	< 1.9	< 20 *	< 1.9	< 10	< 10	< 10	< 10
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.20	< 3.8	< 0.056	< 0.057	< 0.046	< 1.9	< 1.9	< 1.9	< 20	< 1.9	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.20	< 3.8	< 0.10	< 0.13	< 0.10	< 1.9	< 1.9	< 1.9	< 20	< 1.9	< 0.10	< 0.1	< 0.1	< 0.1
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	**0.11**	**0.12**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 3.8	< 3.8	< 0.10	< 0.13	< 0.10	< 1.9	< 1.9	< 1.9	< 20 *	< 1.9	< 10	< 10	< 10	< 10
Fluorene	1,000	µg/L	**2.3**	**2.5**	**2.8**	**2.6**	**2.7**	**2.9**	**1.4**	**1.5**	**1.5**	**1.6**	**0.89**	**0.59**	**1.4**	**1.7**	< 0.10	**0.39**	< 3.8	**0.59**	**2**	**1.4**	**9.4**	**2.5**	**2.2**	< 20 *	1.7 J	< 10	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.20	< 3.8	< 0.10	< 0.13	< 0.10	< 1.9	< 1.9	< 1.9	< 20	< 1.9	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	20	µg/L	**330**	**360**	**440**	**350**	**310**	**380**	**60**	**61**	**170**	**190**	**30**	< 0.5	**210**	**320**	< 0.50	**11 J**	**86**	**110**	**190**	**390**	**2,400**	**340**	**400**	**300**	**400**	< 10	**760**	**750 J**	**1,100**
Phenanthrene	10	µg/L	**1.2**	**1.3**	**1.4**	**1.5**	**1.4**	**1.5**	**0.3**	**0.29**	**0.78**	**0.81**	**0.18**	< 0.05	**0.49**	**1.1**	< 0.05	<0.20	< 3.8	**0.5**	**1.2**	**0.86 ***	**7.3**	**1.9**	**2.4**	< 20 *	1.2 J	< 10	< 10	< 10	< 10
Pyrene	1,000	µg/L	**0.11**	**0.12**	**0.11**	**0.11**	**0.14**	**0.15**	**0.064**	**0.06**	**0.077**	**0.073**	**0.052**	< 0.05	**0.057**	**0.58**	< 0.05	<0.20	< 3.8	< 0.10	< 0.13	< 0.10	< 1.9	< 1.9	< 1.9	< 20	< 1.9	< 10	< 10	< 10	< 10
Inorganic Compounds																														
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05
Barium	2	mg/L	**0.453**	**0.451**	**0.527**	**0.506**	**0.431**	**0.428**	**0.506**	**0.514**	**0.472**	**0.488**	**0.494**	**0.535**	**0.46**	**0.474**	**0.0436**	**0.45**	**0.49**	**0.52**	**0.46**	**0.46**	**0.79**	**0.44**	**0.47**	**0.45**	**0.47**	**0.141**	**0.421**	**0.355**	**0.353**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00028 JB**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.0257**	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0012	**0.0015 J**	< 0.0012	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.0019	**0.0021 J**	**0.0027 JB**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	**0.011**	**0.016**	< 0.0050	**0.011**	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.005	< 0.01	< 0.01	< 0.01
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04	< 0.04	< 0.0023	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.02	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 1.00	< 1.00	< 1	< 1
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0222**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0217**	< 0.020	< 0.020	< 0.0087	< 0.0087	< 0.0087	< 0.02	<0.020	**0.02**	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR	MW-306BR
		Sample Date	7/11/2006	1/13/2006	1/13/2006 DUP	7/22/2005	7/22/2005 DUP	1/20/2005	1/20/2005 DUP	7/15/2004	7/15/2004 DUP	1/22/2004	1/22/2004 DUP	7/18/2003	1/17/2003	1/17/2003 DUP	7/12/2002	4/28/2002	4/26/2002	1/22/2002	7/18/2001	7/18/2001 DUP	1/22/2001
		Unit	Pre-Extraction																				
Volatile Organic Compounds																							
Acetone	4,000	µg/L	50 U	2,500 U	2,000 U	620 U	620 U	2,500 U	2,500 U	2,500 U	2,500 U	12,000 U	6,200 U	2,500 U	25 U	0.025 U	1,200 U	1,200 U	1,200 U	1,200 U	**1,200 R**	**120 R**	1,200 U
Benzene	5	µg/L	**7,300**	**8,900**	**7,900**	**7,700**	**7,600**	**6,800**	**7,300**	**6,700**	**7,000**	**6,500**	**6,400**	**7,400**	**4,900 D**	**4,900 D**	**4,700**	**5,800**	**5,300**	**6,200**	**7,200**	**7,500 D**	**5,400 DB**
Carbon Disulfide	4,000	µg/L	5 U	250 U	200 U	25 U	25 U	100 U	100 U	100 U	100 U	500 U	250 U	10 U	1.0 U	1.0 U	50 U	50 U	50 U	50 U	50 U	5.0 U	5.0 U
Ethylbenzene	700	µg/L	**450**	**840**	**800**	**1,100**	**1,100**	**9,900**	**1,000**	**890**	**910**	**1,100**	**1,100**	**1,200**	**880 D**	**890 D**	**1,000**	**1,100**	**980**	**1,000**	**1,600**	**1,500 D**	--
Methylene Chloride	5	µg/L	5 U	250 U	200 U	120 U	120 U	500 U	500 U	500 U	500 U	2,500 U	1,200 U	50 U	5.0 U	5.0 U	250 U	250 U	250 U	250 U	250 U	25 U	25 U
Toluene	1,000	µg/L	**5.4**	250 U	200 U	25 U	25 U	100 U	100 U	100 U	100 U	500 U	250 U	100 U	**10**	**9.9**	**42 J**	**93**	**32 J**	**26 J**	**21 J**	**26**	**14**
Trichloroethylene	5	µg/L	5 U	250 U	200 U	25 U	25 U	100 U	100 U	100 U	100 U	500 U	250 U	100 U	1.0 U	1.0 U	50 U	50 U	50 U	50 U	50 U	5.0 U	5.0 U
Xylenes, total	2,000	µg/L	**180**	500 U	400 U	**270**	**260**	**200**	**210**	**240**	**250**	1,000 U	500 U	**690**	**550 D**	**560 D**	**630**	**780**	**640**	**500**	**920**	**1,000**	**550**
Semivolatile Organic Compounds																							
2-Methylnaphthalene	*	µg/L	--	**200**	**200**	**150**	**170**	**190**	**190**	**160**	**170**	**170**	**150**	**160**	**170**	**180**	**35**	--	--	**170**	--	**190**	**160**
Acenaphthene	2,000	µg/L	**57**	**60**	**60**	**22**	**56**	100 U	100 U	**58**	**60**	**54**	**50**	**61**	**52**	**54**	**52**	--	--	**56**	--	**65**	**54**
Acenaphthylene	10	µg/L	10 U	10 U	10 U	8.0 U	20 U	100 U	100 U	40 U	40 U	**0.78**	**0.72**	10 U	**0.91 J**	**0.95 J**	10 U	--	--	50 U	--	50 U	10 U
Anthracene	10	µg/L	10 U	10 U	10 U	8.0 U	20 U	100 U	100 U	40 U	40 U	**0.91**	**0.87**	10 U	**0.87 J**	**0.86 J**	**0.83 J**	--	--	50 U	--	50 U	**0.54 J**
Benz(a)anthracene	0.1	µg/L	0.05 U	10 U	10 U	8.0 U	20 U	100 U	100 U	40 U	40 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	--	--	50 U	--	50 U	10 U
Benzo(a)pyrene	0.2	µg/L	0.05 U	10 U	10 U	8.0 U	20 U	100 U	100 U	40 U	40 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	--	--	50 U	--	50 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	0.1 U	10 U	10 U	8.0 U	20 U	100 U	100 U	40 U	40 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	--	--	50 U	--	50 U	10 U
Benzo(g,h,i)perylene	10	µg/L	10 U	10 U	10 U	8.0 U	20 U	100 U	100 U	40 U	40 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	--	--	50 U	--	50 UJ	10 U
Benzo(k)fluoranthene	10	µg/L	10 U	10 U	10 U	8.0 U	20 U	100 U	100 U	40 U	40 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	--	--	50 U	--	50 U	10 U
Chrysene	0.2	µg/L	0.05 U	10 U	10 U	8.0 U	20 U	100 U	100 U	40 U	40 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	--	--	50 U	--	50 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	0.1 U	10 U	10 U	8.0 U	20 U	100 U	100 U	40 U	40 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	--	--	50 U	--	50 UJ	10 U
Dibenzofuran	1	µg/L	--	50 U	50 U	8.0 U	20 U	100 U	100 U	40 U	40 U	**6.1**	**5.8**	10 U	**1.8 J**	**1.8 J**	**1.6 J**	--	--	**1.8 J**	--	**2.1 J**	**1.8 J**
Fluoranthene	1,000	µg/L	10 U	10 U	10 U	8.0 U	20 U	100 U	100 U	40 U	40 U	**0.26**	**0.24**	10 U	10 U	10 U	10 U	--	--	50 U	--	50 U	10 U
Fluorene	1,000	µg/L	10 U	10 U	10 U	8.0 U	20 U	100 U	100 U	40 U	40 U	**9**	**8.4**	10 U	**8.3 J**	**11 J**	**8.2 J**	--	--	**6.2 J**	--	**8.1 J**	**6.2 J**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	0.05 U	10 U	10 U	8.0 U	20 U	100 U	100 U	40 U	40 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	--	--	50 U	--	50 UJ	10 U
Naphthalene	20	µg/L	**1,600**	**1,700**	**1,700**	**1,500**	**1,800**	**1,900**	**1,800**	**1,600**	**1,700**	**1,600**	**1,400**	**1,500**	**2,200 D**	**2,500 D**	10 U	**580**	**520**	**1,700 D**	**2,000 D**	**1,800 D**	--
Phenanthrene	10	µg/L	10 U	10 U	10 U	8.0 U	20 U	100 U	100 U	40 U	40 U	**7**	**6.6**	10 U	**6.8 J**	**6.9 J**	**5.9 J**	--	--	**5.6 J**	--	**7.0 J**	**4.3 J**
Pyrene	1,000	µg/L	10 U	10 U	10 U	8.0 U	20 U	100 U	100 U	40 U	40 U	**0.31**	**0.3**	10 U	10 U	10 U	10 U	--	--	50 U	--	50 U	10 U
Inorganic Compounds																							
Aluminum (fume or dust)	*	mg/L	--	0.2 U	0.2 U	0.2 U	**0.727**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.029 B**	--	--	**0.03 B**	0.2 U	0.2 U	**0.033 BN**
Antimony	0.01	mg/L	0.02 U	0.01 U	0.01 U	0.006 U	0.006 U	0.02 U	0.02 U	0.006 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	--	--	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	--	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.364**	**0.352**	**0.376**	**0.284**	**0.326**	**0.34**	**0.34**	**0.33**	**0.32**	**0.31**	**0.31**	**0.3**	**0.32**	**0.32**	**0.33**	--	--	**0.26**	**0.27**	**0.28**	**0.26**
Beryllium	0.004	mg/L	0.01 U	0.005 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	--	--	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	0.005 U	0.002 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	--	--	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	**28.3**	**31.2**	**26.2**	**30.3**	**27**	**27**	**26**	**25**	**27**	**26**	**23**	**25**	**26**	**26**	--	--	**21**	**22**	**23**	**22**
Chromium	0.1	mg/L	0.01 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	--	--	0.01 U	0.01 U	0.01 U	**0.002 B**
Cobalt	*	mg/L	--	0.007 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	--	0.01 U	0.01 U	0.01 U	0.01 U
Copper	1.3	mg/L	0.01 U	0.025 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0046 B**	**0.0034 B**	0.02 U	--	--	0.02 U	**0.0026 J**	0.02 U	0.02 U
Cyanide	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron	*	mg/L	--	**1.73**	**1.76**	**1.48**	**2.32**	**1.5**	**1.5**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	**1.4**	--	--	**1.2**	**1.1**	**1.2**	**1.1**
Lead	0.015	mg/L	0.01 U	0.003 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.0015 B**	0.005 U	0.005 U	--	--	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	**16.7**	**16.3**	**13.9**	**15.7**	**15**	**14**	**14**	**14**	**14**	**14**	**13**	**14**	**14**	**14**	--	--	**11**	**12**	**12**	**12**
Manganese	*	mg/L	--	**1**	**1.03**	**0.81**	**0.937**	**0.94**	**0.94**	**0.89**	**0.89**	**0.9**	**0.88**	**0.77**	**0.86**	**0.86**	**0.88**	--	--	**0.72**	**0.74**	**0.77**	**0.71**
Mercury	0.002	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 UJ	0.0002 U	0.0002 U	0.0002 U	--	--	0.0002 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	--	--	0.04 U	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	--	5 U	5 U	**2.82**	**3.42**	**3.3**	**3.3**	**3.1**	**3.1**	**3.1**	**3.1**	**2.9**	**3.1**	**3.1**	**3.1**	--	--	**2.7**	**3.1**	**3.2**	**2.7**
Selenium	0.05	mg/L	0.02 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	--	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	**16.7**	**17.1**	**15.6**	**17.3**	**15**	**15**	**15**	**15**	**16**	**15**	**16**	**15**	**15**	**15**	--	--	**13**	**14**	**15**	**14**
Thallium	0.002	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.002 U	0.002 UWN	--	--	0.002 U	0.002 U	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	0.01 U	0.007 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	--	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	0.02 U	0.02 U	**0.0336**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.022**	**0.015 B**	0.02 U	--	--	0.02 U	0.02 U	**0.0078 J**	0.02 U

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
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N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
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UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ
		Sample Date	1/23/2018	7/25/2017	1/24/2017	7/26/2016	1/19/2016	7/30/2015	7/30/2015 DUP	1/13/2015	1/13/2015 DUP	7/14/2014	7/14/2014 DUP	1/27/2014	1/27/2014 DUP	7/9/2013	1/10/2013	1/10/2013 DUP	7/25/2012	7/25/2012 DUP	1/17/2012	1/17/2012 DUP	7/6/2011	7/6/2011 DUP	1/18/2011	1/18/2011 DUP	7/20/2010	1/12/2010	1/12/2010 DUP
		Unit	Post-Extraction							During Extraction																			
Volatile Organic Compounds																													
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	<50	< 50	< 100	< 100	< 100	< 100	< 50	< 5.0	< 50	< 25	< 5.0	< 5.0	< 100 U	< 5000	< 5000
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**18**	**18**	**21**	**5.1**	**5.4**	**5.5**	**5.3**	**91**	**81**	**120**	**120**	**630**	**710**	**69**	**4700**	**4800**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 6.0	**0.89 J**	< 6.0	< 3.0	< 0.60	< 0.60	< 5.0 U	<250	<250
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**2.3 J**	**1.8 J**	**2.6 J**	**2.0 J**	**2.3 J**	**2.9 J**	**1.1 J**	<250	<250
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 1.0	< 10	< 5.0	< 1.0	< 1.0	< 5.0 U	<250	<250
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 3.3	**0.77 J**	< 3.3	< 1.7	**0.63 J**	**0.67 J**	**0.63 J**	<250	<250
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.3	< 0.13	< 1.3	< 0.65	< 0.13	< 0.13	< 5.0 U	<250	<250
Xylenes, total	2,000	µg/L	**6.9**	**6.4**	**7.9**	**7.6**	**5.3**	< 5.0	< 5.0	**6.8**	**6.3**	**7**	**8.6**	**7.5**	**8.6**	**7.5**	**8.5**	**8.8**	7.8	7.3	**12 J**	**14**	**11 J**	**11 J**	**17**	**22**	**19**	<250	<250
Semivolatile Organic Compounds																													
Acenaphthene	2,000	µg/L	**18**	**21**	**15**	**16**	**11**	**8.9**	< 50	**18**	**21**	**16**	**19**	**18**	**19**	**17**	**12**	**13**	**6.3**	**7.6**	**13**	**15**	**19**	**21**	**24**	**24**	**23**	<94	30
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	**0.21**	<0.19	< 3.8	< 3.8	< 0.099	< 0.096	< 1.0	< 0.95	< 0.96	< 0.96	<0.19	<0.19	**0.34**
Anthracene	10	µg/L	**0.35 J**	**0.35**	**0.33**	**0.3**	**0.16**	**0.13**	**0.15**	**0.25**	**0.25**	**0.3**	**0.35**	**0.37**	**0.39**	**0.27**	**0.2**	**0.24**	< 3.8	< 3.8	**0.24**	**0.30**	< 1.0	< 0.95	< 0.96	< 0.96	**0.36**	**0.48**	**0.43**
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.050	<0.19	<0.19	< 3.8	< 3.8	< 0.099	< 0.096	< 1.0	< 0.95	< 0.96	< 0.96	< 0.19	< 0.19	<0.20
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.050	<0.19	<0.19	< 3.8	< 3.8	< 0.099	< 0.096	< 1.0	< 0.95	< 0.96	< 0.96	< 0.19	< 0.19	<0.20
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.10	**0.19**	<0.19	< 3.8	< 3.8	< 0.099	< 0.096	< 1.0	< 0.95	< 0.96	< 0.96	< 0.19	< 0.19	<0.20
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	<0.10	<0.19	<0.19	< 3.8	< 3.8	< 0.099	< 0.096	< 1.0	< 0.95	< 0.96	< 0.96	< 0.19	< 0.19	<0.20
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.050	<0.19	<0.19	< 3.8	< 3.8	< 0.099	< 0.096	< 1.0	< 0.95	< 0.96	< 0.96	< 0.19	< 0.19	<0.20
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.050	<0.19	<0.19	< 3.8	< 3.8	< 0.045	< 0.043	< 0.46	< 0.43	< 0.43	< 0.43	< 0.19	< 0.19	<0.20
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	<0.10	<0.19	<0.19	< 3.8	< 3.8	< 0.099	< 0.096	< 1.0	< 0.95	< 0.96	< 0.96	< 0.19	< 0.19	<0.20
Fluoranthene	1,000	µg/L	**0.18 J**	**0.18**	**0.15**	**0.15**	**0.11**	< 0.1	< 0.1	**0.12**	**0.13**	**0.14**	**0.16**	**0.17**	**0.18**	**0.15**	**0.25**	<0.19	< 3.8	< 3.8	**0.11 J**	**0.15 J**	< 1.0	< 0.95	< 0.96	< 0.96	**0.16 J**	**0.21**	**0.25**
Fluorene	1,000	µg/L	**2.9 J**	**3.2**	**2.4**	**2.5**	**1.4**	**0.93**	**1.2**	**2**	**2.2**	**2.1**	**2.3**	**2.5**	**2.7**	**2.1**	**1.6**	**1.7**	< 3.8	< 3.8	**1.3**	**1.6**	**3.0**	**3.4**	**3.2**	**3.5**	**2.0**	**4.3**	**3.4**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.19	<0.19	< 3.8	< 3.8	< 0.099	< 0.096	< 1.0	< 0.95	< 0.96	< 0.96	< 0.19 U	<0.20	< 0.19
Naphthalene	20	µg/L	**350**	**360**	**270**	**270**	**160**	**200**	**210**	**240**	**300**	**310**	**390**	**290**	**340**	**340**	**11 J**	**270**	**200**	**240**	**550 D**	**770**	**330**	**380**	**510**	**520**	**340**	**650**	**700**
Phenanthrene	10	µg/L	**1.6 J**	**1.8**	**1.3**	**1.3**	**0.32**	**0.45**	**0.57**	**0.95**	**1.1**	**1.3**	**1.5**	**1.6**	**1.8**	**1.5**	**1.4**	**1.3**	< 3.8	< 3.8	**1.5**	**1.9**	**2.2**	**2.3**	**2.6**	**2.5**	**2.0**	**3.2**	**3.1**
Pyrene	1,000	µg/L	**0.18 J**	**0.16**	**0.15**	**0.13**	**0.1**	**0.056**	**0.068**	**0.11**	**0.12**	**0.11**	**0.13**	**0.15**	**0.17**	**0.12**	**0.32**	<0.19	< 3.8	< 3.8	< 0.099	**0.11 J**	< 1.0	< 0.95	< 0.96	< 0.96	**0.16 J**	< 0.19	<0.20
Inorganic Compounds																													
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020
Barium	2	mg/L	**0.65**	**0.775**	**0.72**	**0.855**	**0.838**	**0.771**	**0.783**	**0.735**	**0.741**	**0.802**	**0.821**	**0.790**	**0.822**	**0.689**	**0.45**	**0.44**	**0.50**	**0.50**	**0.56**	**0.57**	**0.74**	**0.76**	**0.57**	**0.65**	**0.73**	**0.84**	**0.77**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0040	< 0.0040	< 0.0040
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.010	< 0.010	< 0.010
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.0142**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	**0.0042 J**	< 0.020	< 0.020
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	**0.014**	**0.0083 J**	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04	< 0.04	< 0.04	< 0.04	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0087	< 0.0087	< 0.0087	< 0.0087	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
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R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
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January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ	MW-306TZ
		Sample Date	7/21/2009	7/21/2009 DUP	1/19/2009	7/22/2008	7/22/2008 DUP	1/9/2008	7/10/2007	7/10/2007 DUP	2/15/2007	7/11/2006	2/8/2006	1/12/2006	1/12/2006 DUP	7/22/2005	1/20/2005	7/15/2004	7/18/2003	1/15/2003	7/9/2002	1/15/2002	7/11/2001	1/22/2001
		Unit	During Extraction									Pre-Extraction												
Volatile Organic Compounds																								
Acetone	4,000	µg/L	< 5000	< 2000	< 5000	< 1000	< 5000	< 50	< 50	< 50	< 50	50 U	--	2,000 U	2,000 U	620 U	1,200 U	1,200 U	630 U	120 U	120 U	120 U	120 U	120 U
Benzene	5	µg/L	**4200**	**3900**	**3500**	**3,500**	**3500**	**4,100**	**5,600**	**5,700**	**6,800**	**6,600**	--	**5,700**	**5,500**	**6,200**	**4,600**	**3,200**	**1,700**	**1,100 D**	**1,000 D**	**880**	**1,700 D**	**740 DB**
Carbon Disulfide	4,000	µg/L	< 250	< 100	64 J	< 50	< 250	< 5.0	< 5	< 5	< 5	5 U	--	200 U	200 U	25 U	50 U	50 U	25 U	5.0 U	5.0 U	5.0 U	**11**	1.0 U
Ethylbenzene	700	µg/L	< 250	< 100	< 250	**9.0 J**	< 250	**9.4**	**8.5**	**7.8**	**39**	**64**	--	200 U	200 U	**700**	**760**	**410**	**300**	**300**	**290**	**170**	**450**	**170 D**
Methylene Chloride	5	µg/L	< 250	< 100	21 J	< 50	< 250	< 5.0	< 5	< 5	< 5	5 U	100 U	840 U	880 U	120 U	250 U	250 U	130 U	25 U	25 U	25 U	**25 J**	5.0 U
Toluene	1,000	µg/L	< 250	< 100	< 250	< 50	< 250	< 5.0	< 5	< 5	< 5	5 U	--	200 U	200 U	25 U	50 U	50 U	50 U	**1.5 J**	**2.6 J**	**7.7**	**8.9**	**1.3**
Trichloroethylene	5	µg/L	< 250	< 100	< 250	< 50	< 250	< 5.0	< 5	< 5	< 5	5 U	--	200 U	200 U	25 U	50 U	50 U	50 U	5.0 U	**3.5 J**	5.0 U	**3.1 J**	1.0 U
Xylenes, total	2,000	µg/L	< 250	< 100	61 J	**84**	**55**	**100**	**95**	**85**	**160**	**130**	--	400 U	400 U	**210**	**290**	**200**	**110**	**82**	**130**	**66**	**230**	**94**
Semivolatile Organic Compounds																								
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	**68**	**62**	**80**	**85**	**69**	**43**	**0.02**	**22**	**15**	**28**	**18**
Acenaphthene	2,000	µg/L	**41**	**43**	**14 J***	**19**	**25**	**27**	**32**	**30**	**32**	**35**	--	**24**	**23**	**29**	80 U	**26**	**19**	**0.011**	**9.7 J**	**7.2 J**	**13**	**9.3 J**
Acenaphthylene	10	µg/L	< 0.94	**0.29**	< 20 *	< 3.9	< 3.8	< 10	< 10	< 10	< 10	10 U	--	6.7 U	4.0 U	10 U	80 U	80 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 0.94	**0.71**	< 20 *	**0.49 J**	**0.56 J**	< 10	< 10	< 10	< 10	10 U	--	6.7 U	4.0 U	10 U	80 U	80 U	10 U	10 U	10 U	10 U	**1.3 J**	10 U
Benz(a)anthracene	0.1	µg/L	< 0.94	< 0.19	< 20	< 3.9	< 3.8	< 0.05	< 0.05	< 0.05	< 0.05	0.05 U	--	6.7 U	4.0 U	10 U	80 U	80 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.94	< 0.19	< 20	< 3.9	< 3.8	< 0.05	< 0.05	< 0.05	< 0.05	0.05 U	--	6.7 U	4.0 U	10 U	80 U	80 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.94	< 0.19	< 20	< 3.9	< 3.8	< 0.10	< 0.1	< 0.1	< 0.1	0.1 U	--	6.7 U	4.0 U	10 U	80 U	80 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.94	< 0.19	< 20	< 3.9	< 3.8	< 10	< 10	< 10	< 10	10 U	--	6.7 U	4.0 U	10 U	80 U	80 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.94	< 0.19	< 20 *	< 3.9	< 3.8	< 10	< 10	< 10	< 10	10 U	--	6.7 U	4.0 U	10 U	80 U	80 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.94	< 0.19	< 20	< 3.9	< 3.8	< 0.05	< 0.05	< 0.05	< 0.05	0.05 U	--	6.7 U	4.0 U	10 U	80 U	80 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.94	< 0.19	< 20	< 3.9	< 3.8	< 0.1	< 0.1	< 0.1	< 0.1	0.1 U	--	6.7 U	4.0 U	10 U	80 U	80 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	33 U	20 U	10 U	80 U	80 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 0.94	**0.23**	< 20 *	< 3.9	< 3.8	< 10	< 10	< 10	< 10	10 U	--	6.7 U	4.0 U	10 U	80 U	80 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	4.9	**5.2**	< 20 *	**2.3 J**	**3.3 J**	< 10	< 10	< 10	< 10	10 U	--	6.7 U	4.0 U	11 J	80 U	80 U	10 U	**0.00095 J**	**1.2 J**	**0.85 J**	**1.3 J**	**0.98 J**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.94	< 0.19	< 20	< 3.9	< 3.8	< 0.05	< 0.05	< 0.05	< 0.05	0.05 U	--	6.7 U	4.0 U	10 U	80 U	80 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	**830**	**1100**	**340**	**560**	**650**	**680**	**780**	**860**	**780**	**850**	--	**710**	**670**	**910**	**820**	**660**	**490**	**0.26 D**	**210 D**	**140**	**330 D**	**180**
Phenanthrene	10	µg/L	**3.9**	**3.8**	< 20 *	**2.4 J**	**3.1 J**	< 10	< 10	< 10	< 10	10 U	--	6.7 U	4.0 U	10 U	80 U	80 U	10 U	**0.0014 J**	**0.95 J**	**0.72 J**	**1.3 J**	**1.0 J**
Pyrene	1,000	µg/L	< 0.94	**0.22**	< 20	< 3.9	< 3.8	<10	<10	<10	< 10	10 U	--	6.7 U	4.0 U	10 U	80 U	80 U	10 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds																								
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.20 U	0.2 U	**0.043 BN**	0.2 U	**0.036 BN**
Antimony	0.01	mg/L	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U	--	0.01 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.020 U	0.02 U	0.020 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.020	< 0.020	< 0.010	< 0.01	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	0.05 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.010 U	0.01 U	0.01 U
Barium	2	mg/L	**0.67**	**0.71**	**0.54**	**0.5**	**0.5**	**0.513**	**0.592**	**0.580**	**0.590**	**0.624**	--	**0.594**	**0.609**	**0.581**	**0.46**	**0.32**	**0.31**	**0.33**	**0.33**	**0.36**	**0.31**	**0.36**
Beryllium	0.004	mg/L	< 0.0040	< 0.0040	< 0.0040	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	--	0.005 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.004 U	0.0040 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005 U	--	0.002 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	0.0050 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	**52.7**	**51.2**	**52.2**	**36**	**25**	**24**	**26**	**28**	**27**	**25**	**29**
Chromium	0.1	mg/L	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	--	0.005 UJ	0.005 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.010 U	0.01 UN	0.01 U
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	0.007 UJ	0.007 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.010 U	0.01 U	0.01 U
Copper	1.3	mg/L	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	--	0.025 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.020 U	0.02 U	0.020 U	0.02 UN	**0.0012 B**
Cyanide	0.2	mg/L	< 0.010	< 0.010	< 0.010	< 0.01	**0.0062 J**	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	--	0.01 UJ	0.01 UJ	0.01 U	0.01 U	0.01 U	0.015 U	0.010 U	0.01 U	0.010 U	0.01 U	0.01 U
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	**3.55**	**3.56**	**2.37**	**1.5**	**0.99**	**1**	**1.2**	**1.2**	**1.3 N**	**1.1**	**1.3**
Lead	0.015	mg/L	< 0.010	< 0.010	< 0.0050	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	--	0.003 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	0.0050 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	**29.4**	**29.8**	**27.9**	**20**	**13**	**15**	**14**	**15**	**15**	**14**	**16**
Manganese	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	**1.89**	**1.93**	**1.77**	**1.4**	**0.96**	**0.95**	**1.0**	**1.1**	**1.0**	**0.94 N**	**1.1**
Mercury	0.002	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.0002	0.0002 U	--	0.0002 UJ	0.0002 UJ	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U	0.00020 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	< 0.040	< 0.040	< 0.040	< 0.04	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U	--	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.040 U	0.04 U	0.040 U	0.04 U	0.04 U
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	5 U	5 U	**3.94**	**3.7**	**3**	**2.7**	**2.9**	**2.9**	**3.0**	**3.0**	**3.1**
Selenium	0.05	mg/L	< 0.020	< 0.020	--	< 0.01	< 0.01	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U	--	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.010 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	**24.8**	**24.9**	**26.2**	**23**	**24**	**21**	**23**	**18**	**17**	**23**	**19**
Thallium	0.002	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 0.001	< 1.00	< 1.00	< 1.00	< 1	0.001 U	--	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.002 U	0.0020 UWN	0.002 UJ	0.0020 U	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	--	0.007 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.010 U	0.01 U	0.01 U
Zinc	2	mg/L	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U	--	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.03**	0.020 U	0.02 U	0.020 U	0.02 U	0.02 U

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR
		Sample Date	7/31/2015	1/15/2015	1/15/2015 DUP	7/16/2014	1/10/2014	1/10/2014 DUP	8/13/2013	8/13/2013 DUP	1/9/2013	1/9/2013 DUP	7/24/2012	7/24/2012 DUP	1/23/2012	1/23/2012 DUP	7/7/2011	7/7/2011 DUP	1/13/2011	1/13/2011 DUP	7/20/2010	7/20/2010 DUP	1/7/2010	1/7/2010 DUP
		Unit	Post-Extraction	During Extraction																			
Volatile Organic Compounds																							
Acetone	4,000	µg/L	< 5000	< 5,000	< 5,000	< 5,000	<5,000	< 5,000	< 50	< 50	< 10,000	< 10,000	< 20,000	< 20,000	< 1,000	< 1,000	< 1000	< 1000	< 500	< 500	< 10000	< 10000	< 10000	< 10000
Benzene	5	µg/L	**5300**	**12,000**	**12,000**	**15,000**	**13,000**	**13,000**	**15,000**	**15,000**	**11,000**	**13,000**	**12,000**	**12,000**	**12,000**	**12,000**	**13,000**	**13,000**	**13,000**	**13,000**	**10000**	**11000**	**10000**	**11000**
Carbon Disulfide	4,000	µg/L	< 500	< 500	< 500	< 500	<500	< 500	< 5.0	< 5.0	<500	<500	< 1,000	< 1,000	< 120	< 120	< 120	< 120	< 60	< 60	< 500	< 500	< 500	< 500
Ethylbenzene	700	µg/L	< 500	**2,000**	**2,100**	**2,400**	**2,400**	**2,300**	**2,300**	**2,400**	**1,300**	**1,500**	**2,000**	**2,100**	**1,900**	**1,900**	**1,900**	**1,900**	**2,200**	**2,200**	**2200**	**2300**	**2000**	**2000**
Methylene Chloride	5	µg/L	< 500	< 500	< 500	< 500	<500	< 500	< 5.0	< 5.0	<500	<500	< 1,000	< 1,000	< 200	< 200	< 200	< 200	< 100	< 100	< 500	< 500	< 500	< 500
Toluene	1,000	µg/L	< 500	< 500	< 500	< 500	<500	< 500	**5.8**	**5.6**	<500	<500	< 1,000	< 1,000	**120 J**	**110 J**	**110 J**	**110 J**	**52 J**	**51 J**	**150 J**	**140 J**	<500	<500
Trichloroethylene	5	µg/L	< 500	< 500	< 500	< 500	<500	< 500	< 5.0	< 5.0	<500	<500	< 1,000	< 1,000	< 26	< 26	< 26	< 26	< 13	< 13	< 500	< 500	< 500	< 500
Xylenes, total	2,000	µg/L	< 500	**720**	**770**	**1,000**	**1,200**	**1,200**	**1,000**	**1,000**	**540**	**600**	**1,100**	**1,200**	**1,300**	**1,300**	**1,300**	**1,300**	**1,800**	**1,800**	**1800**	**1800**	**1500**	**1500**
Semivolatile Organic Compounds																								
Acenaphthene	2,000	µg/L	**48**	**220**	**220**	**240**	**270**	**250**	**180**	**160**	**200**	<190	**260**	**190**	**250**	**230**	**240**	**280**	**150**	**140**	**150**	**160**	**160**	**210**
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	**3**	**2.6**	**2.6**	**1.2**	**1.6**	< 190	< 190	< 190	< 190	< 11	< 11	**6.2 J**	< 4.8	**2.4**	< 0.96	< 19	< 19	< 94	< 94
Anthracene	10	µg/L	**1.6**	**7.2**	**6.6**	**7.7**	**8.1**	**7.7**	**6.6**	**5.2**	< 190	< 190	< 190	< 190	< 11	< 11	**8.5 J**	**9.4 J**	**8.1**	**6.1**	< 19	**5.2**	< 94	< 94
Benz(a)anthracene	0.1	µg/L	**0.11**	**0.20**	**0.15**	**0.19**	**0.18**	**0.18**	**0.15**	**0.11**	< 190	< 190	< 190	< 190	< 11	< 11	< 4.8	< 4.8	**2.1**	< 0.96	< 19	< 19	< 94	< 94
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 190	< 190	< 190	< 190	< 11	< 11	< 4.8	< 4.8	< 0.96	< 0.96	< 19	< 19	< 94	< 94
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 190	< 190	< 190	< 190	< 11	< 11	< 4.8	< 4.8	< 0.96	< 0.96	< 19	< 19	< 94	< 94
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 190	< 190	< 190	< 190	< 11	< 11	< 4.8	< 4.8	< 0.96	< 0.96	< 19	< 19	< 94	< 94
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 190	< 190	< 190	< 190	< 11	< 11	< 4.8	< 4.8	< 0.96	< 0.96	< 19	< 19	< 94	< 94
Chrysene	0.2	µg/L	**0.06**	**0.13**	**0.11**	**0.15**	**0.13**	**0.12**	**0.11**	**0.088**	< 190	< 190	< 190	< 190	< 4.9	< 4.7	< 2.2	< 2.2	**1.6 J**	**0.75 J**	< 19	< 19	< 94	< 94
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 190	< 190	< 190	< 190	< 11	< 11	< 4.8	< 4.8	< 0.96	< 0.96	< 19	< 19	< 94	< 94
Fluoranthene	1,000	µg/L	**0.87**	**3.5**	**3.1**	**3.5**	**3.6**	**3.5**	**3.3**	**2.6**	< 190	< 190	< 190	< 190	< 11	< 11	< 4.8	< 4.8	**9.6**	**5.5**	< 19	**2.1**	< 94	< 94
Fluorene	1,000	µg/L	**7.6**	**48**	**46**	**52**	**55**	**54**	**37**	**33**	< 190	< 190	< 190	< 190	**57**	**53**	**68**	**80**	**44**	**36**	**32**	**32**	< 94	< 94
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 190	< 190	< 190	< 190	< 11	< 11	< 4.8	< 4.8	< 0.96	< 0.96	< 19	< 19	< 94	< 94
Naphthalene	20	µg/L	**350**	**6,700**	**8,100**	**7,700**	**9,600**	**8,400**	**6,100**	**5,000**	**4,100**	**3,800**	**7,500**	**6,400**	**10,000 D**	**11 J**	**5,800**	**6,400**	**5,900**	**6,300**	**5900**	**8000**	**5200**	**6800**
Phenanthrene	10	µg/L	**9.7**	**46**	**44**	**55**	**57**	**53**	**37**	**32**	< 190	< 190	< 190	< 190	**57**	**52**	< 48	**56**	**52**	**40**	**31**	**31**	< 94	< 94
Pyrene	1,000	µg/L	**1.1**	**4.1**	**3.6**	**3.6**	**3.7**	**3.6**	**3.3**	**2.8**	< 190	< 190	< 190	< 190	< 11	< 4.8	**5.5 J**	**14**	**8.1**	< 19	< 19	< 94	< 94	
Inorganic Compounds																								
Antimony	0.01	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0053	**0.0057 J**	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.020
Barium	2	mg/L	**0.0707**	**0.804**	**0.826**	**0.862**	**0.893**	**0.888**	**0.905**	**0.954**	**0.87**	**0.80**	**0.89**	**0.87**	**0.92**	**0.96**	**0.88**	**0.90**	**0.96**	**0.96**	**0.85**	**0.84**	**0.85**	**0.88**
Beryllium	0.004	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.0040	< 0.0040	< 0.0040	**0.00029 J**	**0.00029 J**	**0.00020 J**	< 0.00020	**0.00098 J**	**0.00087 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0012	< 0.0012	< 0.0012	< 0.0012	**0.019**	**0.012**	< 0.010	< 0.010	< 0.010	< 0.010
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.02	< 0.02	**0.0052 J**	**0.0043 J**	**0.0068 J**	**0.0086 J**	**0.047**	**0.020**	< 0.020	< 0.020	< 0.020	< 0.020
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.010	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	**0.011**	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	--	--	< 0.010	< 0.010	< 0.010	< 0.010	**0.0051 J**	< 0.0040	**0.001 J**	**0.0071 J**	0.0048 J	< 0.0040	**0.0048 J**	<0.010	<0.010	<0.010
Mercury	0.002	mg/L	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	**0.0247**	< 0.02	< 0.02	< 0.02	< 0.02	**0.064**	**0.061**	< 0.04	< 0.04	**0.014 J**	**0.010 J**	**0.11**	**0.12**	**0.035 J**	**0.022 J**	**0.0066 J**	<0.040	<0.040	<0.040
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.020
Thallium	0.002	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.0024	**0.0030 J**	**0.0024 J**	< 0.010	< 0.010	< 0.010	< 0.010
Zinc	2	mg/L	< 0.02	**0.0746**	**0.0802**	**0.084**	**0.0897**	**0.0906**	**0.0264**	**0.117**	**0.11**	**0.11**	**0.050**	**0.057**	**0.13**	**0.079**	**0.083**	**0.091**	**4.6**	**4.1**	<0.020	<0.020	<0.020	<0.020

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR	MW-307BR
		Sample Date	7/23/2009	7/23/2009 DUP	1/16/2009	7/15/2008	7/15/2008 DUP	1/8/2008	1/8/2008 DUP	7/9/2007	7/9/2007 DUP	2/13/2007	10/3/2006	1/19/2006	12/7/2005	8/4/2005	7/16/2004	1/24/2004	7/18/2003	1/21/2003	7/15/2002	4/30/2002	4/26/2002	1/22/2002	7/18/2001	1/23/2001
		Unit	During Extraction										Pre-Extraction													
Volatile Organic Compounds																										
Acetone	4,000	µg/L	< 10000	< 10000	< 10000	< 500	< 500	< 50	< 50	<5,000 UJ	<5,000	< 50	50 U	1,700 U	--	25 U	1,200 U	1,200 U	250 U	250 U	2,500 U	2,500 U	1,200 U	1,200 U	**1,200 R**	1,200 U
Benzene	5	µg/L	**11000**	**11000**	**17000**	**9800**	**9200**	**11,000**	**13,000**	**10,000**	**13,000**	**9,800**	**3,800**	**5,700**	--	**380**	**3,500**	**6,700**	**4,600**	**7,900**	**10,000**	**12,000**	**11,000 D**	**11,000 D**	**6,800**	**5,100 B**
Carbon Disulfide	4,000	µg/L	< 500	< 500	< 500	< 25	< 25	< 5.0	< 5.0	< 5	< 5	< 5	5 U	170 U	--	1.0 U	50 U	50 U	10 U	100 U	100 U	100 U	50 U	50 U	50 U	50 U
Ethylbenzene	700	µg/L	**1900**	**2000**	< 500	**1800**	**1600**	**2,500**	**2,600**	**2,600**	**2,500**	**2,500**	580	**1,200**	--	**61**	**660**	**1,500**	**860**	**1,800**	**2,300**	**2,600**	**3,200**	**2,600**	**1,500**	**1,200**
Methylene Chloride	5	µg/L	< 500	< 500	**3000**	< 25	< 25	< 5.0	< 5.0	< 5	< 5	< 5	5 U	170 U	--	5.0 U	250 U	250 U	50 U	500 U	500 U	500 U	250 U	250 U	250 U	250 U
Toluene	1,000	µg/L	< 500	< 500	**1400**	**50**	**41**	**540**	**680**	**960**	**970**	**1,400**	**29**	170 U	--	**3.2**	50 U	50 U	**15**	**77 J**	**210**	**280**	**340**	**100**	**57**	**69**
Trichloroethylene	5	µg/L	< 500	< 500	< 500	**3.4 J**	< 25	< 5.0	< 5.0	< 5	< 5	< 5	5 U	170 U	--	1.0 U	50 U	50 U	10 U	**1,200**	100 U	100 U	50 U	50 U	50 U	50 U
Xylenes, total	2,000	µg/L	**1500**	**1500**	**2500**	**1100**	**1000**	**1,700**	**1,800**	**1,700**	**1,700**	**1,900**	**340**	**990**	--	**35**	**390**	**1,200**	**560**	**1,400**	**1,700**	**2,300**	**2,800**	**2,200**	**910**	**1,100**
Semivolatile Organic Compounds																										
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	**550**	--	**12**	**100**	**260**	**170**	**400**	**38**	--	--	**820**	**360**	**320**
Acenaphthene	2,000	µg/L	**17**	**20**	**84**	**150**	**150**	**180 J**	**280 J**	**230**	**210**	**160**	**31**	**190**	--	**6.2**	**41**	**94**	**74**	**130**	**9.0 J**	--	--	**230**	**120**	**120**
Acenaphthylene	10	µg/L	< 3.8	< 3.8	**6.2 J**	**2.1 J**	**2.1 J**	< 10	< 10	< 10	< 10	**20**	10 U	**4.6**	--	1.0 U	40 U	**0.88**	10 U	50 U	**3.7 J**	--	--	100 U	50 U	**2.4 J**
Anthracene	10	µg/L	< 3.8	**3.8**	< 39	**5.5**	**6.6**	< 10	< 10	< 10	< 10	< 10	10 U	**5.4**	--	1.0 U	40 U	**3.3**	10 U	**2.6 J**	10 U	--	--	**4.3 J**	**2.2 J**	**3.0 J**
Benz(a)anthracene	0.1	µg/L	< 3.8	< 3.8	< 39	< 3.9	< 4.0	**0.10**	**0.13**	**0.15**	**0.14**	< 0.05	0.05 U	4.0 U	--	1.0 U	40 U	0.2 U	10 U	50 U	10 U	--	--	100 U	50 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 3.8	< 3.8	< 39	< 3.9	< 4.0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.05 U	4.0 U	--	1.0 U	40 U	0.2 U	10 U	50 U	10 U	--	--	100 U	50 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 3.8	< 3.8	< 39	< 3.9	< 4.0	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	0.1 U	4.0 U	--	1.0 U	40 U	0.2 U	10 U	50 U	10 U	--	--	100 U	50 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 3.8	< 3.8	< 39	< 3.9	< 4.0	< 10	< 10	< 10	< 10	< 10	10 U	4.0 U	--	1.0 U	40 U	0.2 U	10 U	50 U	10 U	--	--	100 U	50 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 3.8	< 3.8	< 39	< 3.9	< 4.0	< 10	< 10	< 10	< 10	< 10	10 U	4.0 U	--	1.0 U	40 U	0.2 U	10 U	50 U	10 U	--	--	100 U	50 U	10 U
Chrysene	0.2	µg/L	< 3.8	< 3.8	< 39	< 3.9	< 4.0	**0.080**	< 0.05	**0.080**	**0.080**	< 0.05	0.05 U	4.0 U	--	1.0 U	40 U	0.2 U	10 U	50 U	10 U	--	--	100 U	50 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 3.8	< 3.8	< 39	< 3.9	< 4.0	< 0.10	< 0.10	**0.15 J**	< 0.1 UJ	< 0.1	0.1 U	4.0 U	--	1.0 U	40 U	0.2 U	10 U	50 U	10 U	--	--	100 U	50 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	20 U	--	1.0 U	40 U	**4.2**	10 U	**6.4 J**	10 U	--	--	**11 J**	**5.6 J**	**6.5 J**
Fluoranthene	1,000	µg/L	< 3.8	< 3.8	< 39	**2.6 J**	**2.5 J**	< 10	< 10	< 10	< 10	< 10	10 U	4.0 U	--	1.0 U	40 U	**1.2**	10 U	50 U	10 U	--	--	100 U	50 U	**1.8 J**
Fluorene	1,000	µg/L	< 3.8	**3.8**	19 J	**32**	**33**	**38**	**38**	**33**	**37**	**36**	10 U	**37**	--	11 J	40 U	**13**	**14**	**26 J**	10 U	--	--	**41 J**	**20 J**	**24**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 3.8	< 3.8	< 39	< 3.9	< 4.0	< 0.05	< 0.05	**0.11 J**	< 0.05 UJ	< 0.05	0.05 U	4.0 U	--	1.0 U	40 U	0.2 U	10 U	50 U	10 U	--	--	100 U	50 U	10 U
Naphthalene	20	µg/L	**420**	**590**	**2600 B**	**3700**	**3400**	**5,500 J**	**7,800 J**	**7,200**	**7,300**	**6,000**	**570**	**4,300**	--	**160**	**1,200**	**2,700**	**3,100**	**3,900 D**	**560 D**	**4,500**	**16,000 D**	**6,000 D**	**4,000 D**	**2,900 D**
Phenanthrene	10	µg/L	< 3.8	< 3.8	**23 J**	**31**	**33**	**37**	**37**	**35**	**39**	**34**	10 U	**35**	--	1.0 U	40 U	**19**	**14**	**25 J**	10 U	--	--	**44 J**	**20 J**	**26**
Pyrene	1,000	µg/L	< 3.8	< 3.8	< 39	3.3 J	3.4 J	< 10	< 10	< 10	< 10	< 10	10 U	4.0 U	--	1.0 U	40 U	**1.2**	10 U	50 U	10 U	--	--	100 U	50 U	**1.9 J**
Inorganic Compounds																										
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	0.2 U	--	**0.484**	**0.76**	**0.43**	**0.6**	**0.68**	**0.93**	--	--	**0.98**	**0.38**	**0.38 N**
Antimony	0.01	mg/L	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U	0.01 U	--	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	--	--	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.020	< 0.020	< 0.010	< 0.01	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.05 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	--	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.88**	**0.89**	**0.86**	**0.8**	**0.82**	**0.735**	**0.838**	**0.767**	**0.767**	**0.782**	**0.971**	**0.851**	--	**0.844**	**1.7**	**1.5**	**1.8**	**1.4**	**1.1**	--	--	**0.98**	**1.6**	**1.0**
Beryllium	0.004	mg/L	< 0.0040	< 0.0040	**0.00038 J**	**0.00031 J**	**0.00031 J**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	0.005 U	--	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	--	--	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005 U	0.002 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	--	--	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	**49.2**	**57**	**60.7**	**96**	**87**	**82**	**75**	**58**	--	--	**49**	**83**	**54**
Chromium	0.1	mg/L	< 0.010	< 0.010	0.0032 J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.0161**	0.005 U	--	0.01 U	0.01 U	0.01 U	0.01 UJ	**0.0072 B**	**0.0077 B**	--	--	**0.0073 B**	**0.0065 J**	**0.0036 B**
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	0.007 U	--	0.01 U	0.01 U	0.01 U	0.01 U	**0.0028 B**	**0.0034 B**	--	--	**0.0032 B**	**0.0026 J**	**0.0028 B**
Copper	1.3	mg/L	< 0.020	< 0.020	0.0048 J	< 0.02	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.024**	0.025 U	--	0.02 U	0.02 U	0.02 U	0.02 U	**0.0076 B**	**0.0082 B**	--	--	**0.01 B**	**0.0034 J**	**0.0063 B**
Cyanide	0.2	mg/L	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.002	< 0.01	< 0.002	0.01 U	0.01 U	--	**0.0121**	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.013**	0.01 U	0.01 U
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	**1.1**	**1.3**	**2.58**	**4.1**	**2.7**	**4.4**	**3.7**	**3.6 N**	--	--	**3.8**	**3.2**	**2.3**
Lead	0.015	mg/L	**0.22**	**0.024**	**0.0069**	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.0139**	0.003 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	--	--	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	**24.9**	--	**25.4**	**51**	**44**	**51**	**40**	**31**	--	--	**27**	**45**	**29**
Manganese	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	**1.33**	**1.2**	**1.63**	**2.6**	**2.1**	**2.2**	**1.8**	**1.6**	--	--	**1.3**	**2.0**	**1.3**
Mercury	0.002	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.0002	0.0002 U	0.0002 U	--	0.0002 U	0.0002 U	0.0002 U	0.0002 UJ	**0.000086 B**	0.0002 U	--	--	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	**1.9**	**0.16**	**0.025 J**	**0.0055 J**	**0.0056 J**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U	0.04 U	--	0.04 U	0.04 U	0.04 U	0.04 U	**0.0067 B**	**0.0053 B**	--	--	**0.0049 B**	**0.0048 J**	0.04 U
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	5 U	--	**7.58**	**5.1**	**4.4**	**5.4**	**4.2**	**3.8**	--	--	**3.5**	**4.9**	**3.6**
Selenium	0.05	mg/L	< 0.020	< 0.020	< 0.010	**0.0039 J**	< 0.01	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U	0.005 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	--	**0.0049 B**	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	**24.7**	--	**29.9**	**36**	**30**	**35**	**28**	**23**	--	--	**20**	**28**	**22**
Thallium	0.002	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 0.001	< 1.00	< 1.00	< 1.00	< 1.00	< 1	0.001 U	0.001 U	--	0.001 U	0.002 U	0.001 U	0.002 U	0.002 UW	0.002 UWN	--	--	0.002 U	0.004 UW	0.002 U
Vanadium (fume or dust)	0.2	mg/L	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.0154**	0.007 U	--	0.01 U	0.01 U	0.01 U	0.01 U	**0.0027 B**	**0.0044 B**	--	--	**0.004 B**	0.01 U	0.01 U
Zinc	2	mg/L	**0.75**	**1.4**	**0.82**	**0.041**	**0.043**	**0.253 J**	**0.0934 J**	**0.0239**	**0.0229**	**0.0374**	**0.185**	0.02 U	--	0.02 U	0.02 U	0.02 U	**0.03**	**0.029**	**0.0086 B**	--	--	**0.0085 B**	0.02 U	**0.0063 B**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ	MW-307TZ
		Sample Date	7/30/2015	1/27/2014	1/16/2012	7/6/2011	1/18/2011	7/14/2010	1/12/2010	7/21/2009	1/19/2009	7/16/2008	1/9/2008	7/11/2007	2/14/2007	7/12/2006	1/11/2006	7/22/2005	1/21/2005	7/16/2004	1/23/2004	7/18/2003	1/15/2003	7/10/2002	1/16/2002	7/10/2001	1/24/2001
		Unit	Post-Extraction	During Extraction												Pre-Extraction										
Volatile Organic Compounds																										
Acetone	4,000	µg/L	< 50	<50	< 5.0	< 5.0	< 5.0	**12 J**	< 100	< 100	< 100	< 100	< 50	< 50	< 50	50 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	**34**	**69**	25 U
Benzene	5	µg/L	< 5.0	<5.0	< 0.25	< 0.25	< 0.25	< 5.0 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.31 J**	1.0 U	**28**	1.0 U	**9.8**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 5.0 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 5.0 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.15 J**	**0.78 J**	1.0 U	**0.19 J**
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 1.0	**2.8 J**	< 1.0	< 5.0 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.27 J**	5.0 U	5.0 U	**0.49 J**
Toluene	1,000	µg/L	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	< 5.0 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	**1.4**	1.0 U	1.0 U	**1.1**	1.0 U	1.0 U	1.0 U	**0.36 J**	1.0 U	1.0 U	**0.58 J**
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 5.0 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.59 J**	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	<5.0	< 0.20	< 0.20	< 0.20	< 5.0 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.38 J**	**0.46 J**	2.0 U	**0.47 J**
Semivolatile Organic Compounds																										
2-Methylnaphthalene	*	µg/L	--	--	**--**	--	--	--	--	--	--	**--**	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--	17 U	13 U
Acenaphthene	2,000	µg/L	< 0.5	<0.50	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.20 *	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--	17 U	13 U
Acenaphthylene	10	µg/L	< 1.0	<1.0	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.20 *	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--	17 U	13 U
Anthracene	10	µg/L	< 0.05	<0.050	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.20 *	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--	17 U	13 U
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.05	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--	17 U	**0.52 J**
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.05	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--	17 U	13 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.10	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--	17 U	13 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.10	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--	17 U	13 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.20 *	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--	17 U	13 U
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.047	< 0.05	< 0.049	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.05	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--	17 U	13 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.10	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--	17 U	13 U
Dibenzofuran	1	µg/L	--	--	**--**	--	--	--	--	--	--	**--**	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--	17 U	13 U
Fluoranthene	1,000	µg/L	< 0.1	<0.10	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.20 *	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--	17 U	13 U
Fluorene	1,000	µg/L	< 0.1	<0.10	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.20 *	< 0.19	< 10	< 10	< 10	11 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--	17 U	13 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.051	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.05	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--	17 U	13 U
Naphthalene	20	µg/L	< 0.5	**0.83**	< 0.10	< 0.11	< 0.11	**0.19**	< 0.19	< 0.19	**0.046 J**	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--	17 U	13 U
Phenanthrene	10	µg/L	< 0.05	<0.050	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.20 *	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--	17 U	13 U
Pyrene	1,000	µg/L	< 0.05	<0.050	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	--	17 U	13 U
Inorganic Compounds																										
Aluminum (fume or dust)	*	mg/L	--	--	--	--	**--**	--	--	--	--	**--**	--	--	--	--	**0.975**	**0.733**	0.2 U	0.2 U	**0.43**	0.2 U	**15**	--	**1.2**	--	--
Antimony	0.01	mg/L	< 0.02	< 0.02	< 0.020	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	**0.013 B**	--	0.01 U	--	--
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.020	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.05	< 0.05	< 0.05	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0055 B**	--	0.01 U	--	--
Barium	2	mg/L	**0.258**	**0.280**	**0.37**	**0.40**	**0.41**	**0.35**	**0.43**	**0.47**	**0.41**	**0.39**	**0.427**	**0.494**	**0.319**	**0.372**	0.2 U	**0.48**	**0.74**	**0.79**	**0.36**	**0.4**	**0.71**	--	**0.072**	--	--
Beryllium	0.004	mg/L	< 0.01	< 0.01	< 0.0040	< 0.00020	< 0.00020	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.004	< 0.01	< 0.01	< 0.01	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	**0.0015 B**	--	0.004 U	--	--
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.0050	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	--	0.005 U	--	--
Calcium metal	*	mg/L	--	--	--	--	**--**	--	--	--	--	**--**	--	--	--	--	**30.9**	**63.4**	**79**	**88**	**72**	**56**	**180**	--	**190**	--	--
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.010	< 0.0012	< 0.0012	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	**0.050**	--	0.0052 U	--	--
Cobalt	*	mg/L	--	--	--	--	**--**	--	--	--	--	**--**	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.020**	--	**0.0064 B**	--	--
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.020	< 0.0019	< 0.0019	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.01	< 0.01	< 0.01	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.038**	--	0.0043 U	--	--
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.010	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.010 U	--	**0.098**	--	--
Iron	*	mg/L	--	--	--	--	**--**	--	--	--	--	**--**	--	--	--	--	**5.68**	**5.31**	**6.3**	**6.5**	**5.4**	**1.4**	**19**	--	**3.7**	--	--
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.010	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.005	< 0.01	< 0.01	< 0.01	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.0034 B**	--	0.002 U	--	--
Magnesium	*	mg/L	--	--	--	--	**--**	--	--	--	--	**--**	--	--	--	--	**8.8**	**26.3**	**36**	**40**	**26**	**28**	**58**	--	**6.3**	--	--
Manganese	*	mg/L	--	--	--	--	**--**	--	--	--	--	**--**	--	--	--	--	**0.445**	**1.64**	**2.4**	**2.6**	**1.5**	**1.5**	**3.3**	--	**0.35**	--	--
Mercury	0.002	mg/L	< 0.0002	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 UJ	0.00020 U	--	0.0002 U	--	--
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.040	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.04	< 0.02	< 0.02	< 0.02	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	**0.037 B**	--	**0.0098 B**	--	--
Potassium	*	mg/L	--	**--**	**--**	--	**--**	**--**	**--**	**--**	**--**	**--**	--	--	--	--	**11.7**	**8**	**7.3**	**8.3**	**12**	**7.5**	**5.0**	--	**7**	--	--
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.020	**0.0088 J**	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.02	< 0.02	< 0.02	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	--	0.01 U	--	--
Sodium	*	mg/L	--	**--**	**--**	--	**--**	**--**	**--**	**--**	--	**--**	--	--	--	--	**23.2**	**61.4**	**76**	**85**	**53**	**56**	**100**	--	**95**	--	--
Thallium	0.002	mg/L	< 0.02	< 0.02	< 0.0010	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 1.00	< 1.00	< 1	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.0020 UWN	--	0.002 U	--	--
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.010	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.037**	--	0.0059 U	--	--
Zinc	2	mg/L	< 0.02	< 0.02	< 0.020	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.03**	**0.065**	--	**0.038**	--	--

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR	MW-30BBR
		Sample Date	7/26/2017	1/31/2017	7/28/2016	1/26/2016	7/31/2015	1/29/2015	1/29/2015 DUP	7/16/2014	7/16/2014 DUP	1/10/2014	1/10/2014 DUP	7/11/2013	1/9/2013	1/9/2013 DUP	7/25/2012	7/25/2012 DUP	1/20/2012	1/20/2012 DUP	7/7/2011	7/7/2011 DUP	1/13/2011	1/13/2011 DUP	7/20/2010	7/20/2010 DUP	1/7/2010	1/7/2010 DUP
		Unit	Post-Extraction					During Extraction																					
Volatile Organic Compounds																													
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 2,500	< 2,500	< 2,500	< 2,500	**100**	**86**	< 50	< 5,000	<5,000	< 5,000	< 10,000	< 250	< 250	< 250	< 250	< 250	< 500	< 5000	< 5000	< 5000	< 5000	< 5000
Benzene	5	µg/L	**110**	< 5.0	**170**	**160**	**880**	**6,600**	**6,100**	**6,400**	**6,400**	**4,500**	**4,500**	**5,700**	**5,100**	**4,100**	**5,500**	**5,600**	**5,100**	**5,300**	**5,800**	**5,400**	**5,500**	**7,000**	**5,400**	**5,200**	**3,800**	**4,100**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 250	< 250	< 250	< 5.0	<5.0	< 5.0	< 250	<250	< 250	< 500	< 30	< 30	< 30	< 30	< 30	< 60	< 250	< 250	< 250	< 250
Ethylbenzene	700	µg/L	**65**	< 5.0	**150**	**82**	**350**	**810**	**720**	**570**	**570**	**630**	**620**	**650**	**550**	**490**	**700**	**700**	**660**	**690**	**710**	**660**	**1,000**	**1,100**	**1,200**	**1,100**	**680**	**770**
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 250	< 250	< 250	< 5.0	<5.0	< 5.0	< 250	<250	< 250	< 500	< 50	< 50	< 50	< 50	< 50	< 100	< 250	< 250	< 250	< 250
Toluene	1,000	µg/L	**5.0**	< 5.0	**19**	**10**	**180**	**2,100**	**1,900**	**940**	**940**	**810**	**810**	**1,100**	**530**	**460**	**760**	**750**	**810**	**830**	**740**	**720**	**800**	**950**	**870**	**870**	**640**	**690**
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 250	< 250	< 250	< 5.0	<5.0	< 5.0	< 250	<250	< 250	< 500	**7.9 J**	< 6.5	< 6.5	< 6.5	< 6.5	< 13	< 250	< 250	< 250	< 250	< 250
Xylenes, total	2,000	µg/L	**80**	< 5.0	**180**	**155**	**440**	**880**	**740**	**590**	**590**	**680**	**660**	**840**	**700**	**620**	**710**	**700**	**710**	**710**	**600**	**550**	**950**	**920**	**870**	**820**	**670**	**740**
Semivolatile Organic Compounds																													
Acenaphthene	2,000	µg/L	**36**	< 0.5	**38**	**22**	**43**	**46**	**46**	**170**	**180**	**140**	**160**	**90**	**240**	**270**	**190**	**190**	**180**	**140**	**190**	**150**	**41**	**91**	**84**	**88**	**130**	**360**
Acenaphthylene	10	µg/L	**32**	**1.3**	**25**	**47**	**43**	**66**	**63**	< 100	**69**	**84**	**72**	**82**	**250**	<200	< 190	< 190	**79**	**63**	**150**	**130**	**21**	**69**	**37**	**36**	**340**	**700**
Anthracene	10	µg/L	**7.0**	**0.38**	**6.0**	**17**	**8.1**	**7.0**	**7.5**	**36**	**24**	**35**	**21**	**26**	< 190	<200	< 190	< 190	**32**	**31**	**49**	**37**	**17 J**	**28**	**12**	< 19	**140**	**440**
Benz(a)anthracene	0.1	µg/L	**6.9**	**1.5**	**4.0**	**50**	**5.2**	**9.6**	**9.9**	**28**	**18**	**21**	**10**	**17**	< 190	<200	< 190	< 190	**22**	**27**	**58**	**30**	**12 J**	**25**	**8.8**	< 19	**130**	**670**
Benzo(a)pyrene	0.2	µg/L	**6.2**	**1.5**	**4.3**	**43**	< 5.0	**11**	**11**	**22**	**15**	**17**	**7.1**	**14**	< 190	<200	< 190	< 190	**19**	**19**	**52**	**24**	< 10	**24**	**7.1**	< 19	**120**	**520**
Benzo(b)fluoranthene	0.2	µg/L	**6.9**	**1.2**	**3.7**	**45**	**6.2**	**10**	**10**	**22**	**14**	**12**	**5.3**	**13**	< 190	<200	< 190	< 190	**23**	**25**	**22**	< 2.2	< 10	**12 J**	**3.0**	< 19	<95	**280**
Benzo(g,h,i)perylene	10	µg/L	**3.3**	**0.62**	**2.2**	**23**	**5.2**	**5.9**	**6.2**	**11**	**6.4**	**6.2**	**2.7**	**3.9**	< 190	<200	< 190	< 190	**7.3**	**8.4 J**	**17**	**8.2**	< 10	< 9.7	**2.6**	< 19	<95	**250**
Benzo(k)fluoranthene	10	µg/L	**2.2**	**0.56**	**1.3**	**13**	**2.9**	**3.3**	**3.2**	**6.7**	**4.4**	**4.1**	**1.9**	**4.5**	< 190	<200	< 190	< 190	< 1.1	< 5.7	**29**	**22**	< 10	**13 J**	**4.7**	< 19	< 95	**330**
Chrysene	0.2	µg/L	**6.0**	**1.4**	**2.9**	**32**	**8.4**	**7.8**	**8.3**	**26**	**17**	**20**	**7.6**	**15**	< 190	<200	< 190	< 190	**20**	**22**	**46**	**24**	**12 J**	**23**	**7.9**	< 19	**130**	**550**
Dibenzo(a,h)anthracene	0.3	µg/L	**0.39**	< 0.1	**0.37**	**4.1**	**1.0**	**1.1**	**1.2**	**2.4**	**1.4**	**1.4**	**0.6**	**1.0**	< 190	<200	< 190	< 190	< 1.1	< 5.7	< 5.0	**3.0 J**	< 10	< 9.7	< 1.9	< 19	<95	<98
Fluoranthene	1,000	µg/L	**7.6**	**1.8**	**7.5**	**56**	**10**	**12**	**12**	**58**	**35**	**44**	**23**	**38**	**270**	**290**	< 190	< 190	**49**	**49**	**82**	**53**	**22**	**43**	**16**	< 19	**220**	**980**
Fluorene	1,000	µg/L	**11**	**0.17**	**12**	**14**	**16**	**22**	**21**	**74**	**64**	**64**	**56**	**60**	**260**	**210**	< 190	< 190	**83**	**62**	**180**	**140**	**42**	**66**	**31**	**28**	**220**	**450**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	**2.8**	**0.5**	**1.9**	**20**	**4.5**	**4.8**	**4.9**	**8.9**	**5.2**	**5.2**	**2.3**	**3.7**	< 190	<200	< 190	< 190	**6.2**	**7.1 J**	**15**	**7.6**	< 10	< 9.7	**2.6**	< 19	<95	**270**
Naphthalene	20	µg/L	**830**	< 0.5	**450**	**16**	**1800**	**3,400**	**3,200**	**5,600**	**6,100**	**5,200**	**5,100**	**3,900**	**5,200**	**11 J**	**4,400**	**4,200**	**4,400**	**4,000**	**4,600**	**4,000**	**1,100**	**2,900**	**2,500**	**3,700**	**2,400**	**4,400 B**
Phenanthrene	10	µg/L	**31**	**0.81**	**18**	**59**	**30**	**28**	**29**	**180**	**120**	**160**	**110**	**140**	**760**	**670**	< 190	< 190	**160**	**150**	**300**	**220**	**100**	**150**	**66**	**44**	**1,800**	**370**
Pyrene	1,000	µg/L	**13**	**2.7**	**9.6**	**77**	**15**	**17**	**19**	**71**	**43**	**57**	**29**	**44**	**400**	**430**	< 190	< 190	**62**	**60**	**150**	**85**	**29**	**69**	**27**	< 19	**1,300**	**320**
Inorganic Compounds																													
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0046	**0.0053 J**	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.020
Barium	2	mg/L	**0.546**	**0.0727**	**0.571**	**0.452**	**0.618**	**1.11**	**1.15**	**0.554**	**0.548**	**0.549**	**0.531**	**0.576**	**0.55**	**0.55**	**0.54**	**0.54**	**0.56**	**0.54**	**0.56**	**0.52**	**0.49**	**0.52**	**0.53**	**0.51**	**0.59**	**0.58**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.0040	< 0.0040	< 0.0040	**0.00020 J**	< 0.00020	**0.00022 J**	**0.00022 J**	**0.00023 J**	**0.00026 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0012	**0.0013 J**	**0.0014 J**	**0.0014 J**	**0.0023 J**	< 0.0012	< 0.010	< 0.010	**0.027**	**0.022**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	**0.0128**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.02	< 0.02	**0.020**	**0.011 J**	**0.0026 J**	**0.0023 J**	**0.0034 J**	< 0.0019	< 0.010	< 0.010	< 0.020	< 0.020
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.01	< 0.01	<0.010	<0.010	--	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	**0.0090 J**	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	**0.013**	**0.011**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	**0.071**	**0.06**
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0203**	< 0.02	< 0.02	< 0.02	**0.0390**	0.02	0.03	< 0.04	< 0.04	0.03	**0.07**	**0.0091 J**	**0.0086 J**	**0.030 J**	**0.035 J**	< 0.040	< 0.040	0.18	0.18
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	**0.0066 J**	< 0.0064	< 0.0064	< 0.00020	< 0.00020	< 0.020	< 0.020
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010
Zinc	2	mg/L	**0.0282**	**0.0368**	**0.0281**	**0.106**	**0.0492**	**0.0472**	**0.0508**	**0.0659**	**0.0339**	**0.121**	**0.122**	**0.0803**	**0.091**	**0.089**	**0.050**	**0.050**	**0.97**	**1.1**	**0.038**	**0.040**	**0.049**	**0.051**	**0.044**	**0.048**	**2.5**	**2.9**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR	MW-308BR
		Sample Date	7/23/2009	7/23/2009 DUP	1/16/2009	7/17/2008	7/17/2008 DUP	1/8/2008	1/8/2008 DUP	7/9/2007	7/9/2007 DUP	2/13/2007	2/13/2007 DUP	10/3/2006	10/3/2006 DUP	1/19/2006	12/7/2005	7/16/2004	1/24/2004	7/18/2003	7/18/2003 DUP	1/21/2003	7/15/2002	4/28/2002	4/26/2002	1/22/2002	7/17/2001	1/23/2001	1/18/2001
		Unit	During Extraction											Pre-Extraction														
Volatile Organic Compounds																												
Acetone	4,000	µg/L	< 5,000	< 10,000	< 5,000	< 500	< 10,000	< 50	< 50	<5,000 UJ	<5,000 UJ	< 50 R	< 50	50 R	50 UR	1,000 U	--	1,200 U	1,200 U	250 U	250 U	500 U	500 U	250 U	250 U	250 U	250 U	25 U	25 U
Benzene	5	µg/L	**7,000**	**6,600**	**8,700**	**6,500**	**6,300**	**9,600**	**7,300**	**9,000**	**8,700**	**5,300**	**5,700**	**1,000**	**810**	**2,600**	--	**3,000**	**3,000**	**2,500**	**2,600**	**3,000**	**1,900**	**2,900 D**	**2,600 D**	**1,700**	**1,300**	**0.25 JB**	**960 D**
Carbon Disulfide	4,000	µg/L	< 250	< 500	< 250	< 25	< 500	< 5.0	< 5.0	< 5	< 5	< 5	< 5	5 U	5 U	100 U	--	50 U	50 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	**1,300**	**1,200**	**1,900**	**1,700**	**1,700**	**1,600**	**1,400**	**1,600**	**1,600**	**1,300**	**1,400**	**510**	**460**	**360**	--	**390**	**350**	**360**	**350**	**390**	**270**	**420**	**400**	**200**	**160**	1.0 U	**140**
Methylene Chloride	5	µg/L	< 250	< 500	< 500	< 25	< 500	< 5.0	< 5.0	< 5	< 5	< 5 UJ	< 5	5 U	5 U	100 U	--	250 U	250 U	50 U	50 U	100 U	**11 J**	50 U	50 U	50 U	50 U	5.0 U	5.0 U
Toluene	1,000	µg/L	**750**	**700**	**1,800**	**580**	**730**	**650**	**530**	**930**	**880**	**1,000**	**1,100**	**98**	**92**	**450**	--	50 U	50 U	**34**	**37**	**110**	**110**	**340**	**220**	**9.2 J**	**20**	1.0 U	**13**
Trichloroethylene	5	µg/L	< 250	< 500	< 250	< 25	< 500	< 5.0	< 5.0	< 5	< 5	< 5	< 5	5 U	5 U	100 U	--	50 U	50 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	**5.0 J**	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	**740**	**730**	**1900**	**1000**	**1300**	**940**	**760**	**760**	**710**	**750**	**830**	**200**	**190**	200 U	--	**240**	**280**	**250**	**250**	**240**	**190**	**330**	**290**	**140**	**160**	2.0 U	**120**
Semivolatile Organic Compounds																												
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	**100**	--	**63**	**74**	**54**	**54**	**61**	**170 DJ**	--	--	**46 J**	**34 J**	10 U	**23**
Acenaphthene	2,000	µg/L	**840**	**310**	**260**	**260**	**310**	**140**	**150**	**120**	**110**	**70**	**82**	**28**	**28**	10 U	--	**11**	**7.6**	**10**	**10**	**12**	**51**	--	--	**12 J**	**5.5 J**	10 U	**4.2 J**
Acenaphthylene	10	µg/L	**760**	**240**	**940**	**290**	**330**	**17**	**20**	**27**	**26**	**26**	**30**	**19**	**16**	10 U	--	10 U	**1.6**	10 U	10 U	**3.7 J**	**2.1 J**	--	--	50 U	50 U	10 U	**0.54 J**
Anthracene	10	µg/L	**620**	**160**	**350**	**170**	**190**	< 10	< 10	< 10	< 10	< 10	< 10	10 U	10 U	10 U	--	10 U	0.2 U	10 U	10 U	10 U	**0.7 J**	--	--	50 U	50 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	**1,000**	**280**	**380**	**200**	**250**	**0.48**	**0.59**	**1.4**	**1.2**	**0.06**	**0.09**	0.05 U	0.05 U	10 U	--	10 U	0.2 U	10 U	10 U	10 U	10 U	--	--	50 U	50 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	**870**	**230**	**390**	**170**	**200**	**0.28**	**0.35**	**0.88**	**0.75**	< 0.05	< 0.05	0.05 U	0.05 U	10 U	--	10 U	0.2 U	10 U	10 U	10 U	10 U	--	--	50 U	50 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	**660**	**180**	**310**	**160**	**170**	**0.20**	**0.26**	**0.85**	**0.75**	< 0.1	< 0.1	0.1 U	0.1 U	10 U	--	10 U	0.2 U	10 U	10 U	10 U	10 U	--	--	50 U	50 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	**340**	**90**	**130**	**64**	**85**	< 10	< 10	< 10	< 10	< 10	< 10	10 U	10 U	10 U	--	10 U	0.2 U	10 U	10 U	10 U	10 U	--	--	50 U	50 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	**480**	**140**	**270**	**46**	**52**	< 10	< 10	< 10	< 10	< 10	< 10	10 U	10 U	10 U	--	10 U	0.2 U	10 U	10 U	10 U	10 U	--	--	50 U	50 U	10 U	10 U
Chrysene	0.2	µg/L	**890**	**220**	**330**	**180**	**220**	**0.40**	**0.47**	**0.87**	**0.66**	< 0.05 UJ	**0.06**	0.05 U	0.05 U	10 U	--	10 U	0.2 U	10 U	10 U	10 U	10 U	--	--	50 U	50 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	**120**	**29**	**31 J**	**18**	**25**	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	0.1 U	0.1 U	10 U	--	10 U	0.2 U	10 U	10 U	10 U	10 U	--	--	50 U	50 U	10 U	**1.1 J**
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	10 U	--	10 U	**0.37**	10 U	10 U	**0.56 J**	**2.7 J**	--	--	50 U	50 U	10 U	10 U
Fluoranthene	1,000	µg/L	**1,400**	**390**	**600**	**390**	**490**	< 10	< 10	< 10	< 10	< 10	< 10	10 U	10 U	10 U	--	10 U	0.2 U	10 U	10 U	10 U	**0.38 J**	--	--	50 U	50 U	10 U	10 U
Fluorene	1,000	µg/L	**920**	**250**	**730**	**400**	**580**	**31**	**34**	**27**	**25**	**15**	**19**	10 U	10 U	11 J	--	10 U	**1.5**	10 U	10 U	**2.4 J**	**12**	--	--	50 U	50 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	**320**	**86**	**140**	**61**	**90**	**0.080**	**0.10**	**0.33**	**0.31**	< 0.05	< 0.05	0.05 U	0.05 U	10 U	--	10 U	0.2 U	10 U	10 U	10 U	10 U	--	--	50 U	50 U	10 U	10 U
Naphthalene	20	µg/L	**9,200**	**5,600**	**8,900 BD**	**8,400**	**8,800**	**4,600**	**4,700**	**5,800**	**5,300**	**2,200**	**2,600**	**1,100**	**860**	**1,100**	--	**840**	**1,200**	**680**	**730**	**850 D**	**1,900 D**	**1,600**	**1,300**	**660**	**480**	10 U	**250**
Phenanthrene	10	µg/L	**2,600**	**820**	**1,600**	**750**	**900**	**36**	**39**	**35**	**31**	**16**	**19**	10 U	10 U	10 U	--	10 U	**0.84**	10 U	10 U	10 U	**11**	--	--	50 U	50 U	10 U	10 U
Pyrene	1,000	µg/L	**2,200**	**610**	**870**	**480**	**590**	< 10	< 10	< 10	< 10	< 10	< 10	10 U	10 U	10 U	--	10 U	0.2 U	10 U	10 U	10 U	10 U	--	--	50 U	50 U	10 U	10 U
Inorganic Compounds																												
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 U	--	0.2 U	**0.89**	0.2 U	0.2 U	0.2 U	**1.6**	--	--	**1.2**	**0.7 N**	**1.5 N**	**4.8**
Antimony	0.01	mg/L	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U	0.02 U	0.01 U	--	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	--	--	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.020	< 0.020	< 0.010	< 0.01	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.05 U	0.05 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	--	0.01 U	**0.0037 B**	0.01 U	0.01 U
Barium	2	mg/L	**0.55**	**0.54**	**0.6**	**0.62**	**0.82**	**0.540**	**0.501**	**0.556**	**0.557**	**2.603**	**0.608**	**0.797**	**0.785**	**0.516**	--	**0.44**	**0.44**	**0.41**	**0.4**	**0.43**	**0.48**	--	--	**0.4**	**0.35**	**0.41**	**0.4**
Beryllium	0.004	mg/L	< 0.0040	< 0.0040	**0.00035 J**	**0.0013 J**	**0.0046**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	0.01 U	0.005 U	--	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	--	--	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005 U	0.005 U	0.002 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	--	--	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	**36.4**	**38**	**24**	**25**	**21**	**21**	**23**	**26**	--	--	**21**	**19**	**28**	**21**
Chromium	0.1	mg/L	< 0.010	< 0.010	0.0020 J	**0.017**	**0.043**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.0112**	**0.0115**	0.005 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.018**	--	--	**0.0092 B**	**0.0019 B**	**0.0042 B**	**0.0097 B**
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.0072**	--	0.01 U	0.01 U	0.01 U	0.01 U	**0.0038 B**	**0.0061 B**	--	--	**0.0042 B**	**0.0036 B**	**0.013**	**0.0073 B**
Copper	1.3	mg/L	< 0.020	< 0.020	0.0097 J	**0.061**	**0.11**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.0436**	**0.0425**	0.025 U	--	0.02 U	0.02 U	0.02 U	0.02 U	**0.0019 B**	**0.0077 B**	--	--	**0.0054 B**	**0.0023 B**	**0.014 B**	**0.041**
Cyanide	0.2	mg/L	**0.012**	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	**0.015**	**0.013**	< 0.002	< 0.002	0.01 U	0.01 U	0.01 U	--	**0.03**	**0.022**	0.015 U	0.015 U	**0.015**	**0.13**	**0.029**	**0.035**	**0.011**	**0.014**	0.01 U	**0.0056 B**
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	**1.37**	**1.3**	**3.9**	**5.8**	**3.3**	**3.4**	**3.4**	**6.8 N**	--	--	**5.1**	**4.1**	**5.5**	**11**
Lead	0.015	mg/L	< 0.010	< 0.010	**0.014**	**0.036**	**0.043**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	0.01 U	0.003 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	--	--	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	**17.1**	--	**12**	**13**	**13**	**12**	**13**	**14**	--	--	**12**	**10**	**12**	**13**
Manganese	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	**1.18**	**0.96**	**0.68**	**0.82**	**0.59**	**0.59**	**0.59**	**0.75**	--	--	**0.58**	**0.55**	**0.38**	**0.71**
Mercury	0.002	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	--	0.0002 U	0.0002 U	0.0002 UJ	0.0002 UJ	**0.00012 B**	0.0002 U	--	--	0.0002 U	0.0002 U	0.00020 U	0.00020 U
Nickel	0.1	mg/L	< 0.040	< 0.040	**0.086**	**0.077**	**0.090**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U	0.02 U	0.04 U	--	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	**0.014 B**	--	--	0.04 U	0.04 U	0.04 U	**0.011 B**
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	**5.07**	--	**3.3**	**3.3**	**2.8**	**2.8**	**3.2**	**3.9**	--	--	**3.3**	**3.1**	**3.7**	**4.9**
Selenium	0.05	mg/L	< 0.020	< 0.020	< 0.010	< 0.01	< 0.01	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U	0.02 U	0.005 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0053 B**	--	--	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	**15.8**	--	**15**	**16**	**14**	**14**	**15**	**15**	--	--	**14**	**13**	**13**	**13**
Thallium	0.002	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.001	**0.00074**	< 1.00	< 1.00	< 1.00	< 1.00	< 1	< 1	0.001 U	0.001 U	0.001 U	--	0.002 U	0.001 U	0.002 U	0.002 U	0.002 UW	0.002 UWN	--	--	0.002 U	0.002 UWN	0.002 U	0.002 UW
Vanadium (fume or dust)	0.2	mg/L	< 0.010	< 0.010	0.0035 J	**0.022**	**0.077**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.0202**	**0.0208**	0.007 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0069 B**	--	--	**0.005 B**	**0.0026 B**	**0.0037 B**	**0.018**
Zinc	2	mg/L	**0.099**	**0.088**	**0.62**	**1.1**	**1.4**	**0.118 J**	**0.790 J**	**0.124**	**0.0960**	**0.0619**	**0.0599**	**0.0513**	**0.0641**	0.02 U	--	0.02 U	0.02 U	**0.04**	**0.06**	**0.022**	**0.01 B**	--	--	**0.0079 B**	**0.0073 B**	0.02 U	**0.025**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR
		Sample Date	1/23/2018	7/25/2017	1/24/2017	7/26/2016	1/19/2016	7/28/2015	1/29/2015	7/17/2014	1/9/2014	7/9/2013	1/9/2013	7/23/2012	1/17/2012	7/6/2011	1/17/2011	7/14/2010	1/5/2010	7/21/2009	1/21/2009	7/17/2008	1/8/2008	8/21/2007**	7/12/2007	2/14/2007
		Unit	Post-Extraction						During Extraction																	
Volatile Organic Compounds																										
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	<100	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	< 100	< 50	**69**	--	< 50
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	< 0.25	**0.60 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	**0.17 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.38 J	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5
Semivolatile Organic Compounds																										
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.19	< 0.11	< 0.11	< 0.096	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10	< 10
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 0.19	< 0.11	< 0.11	< 0.096	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 10	--	< 10	< 10
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.11	< 0.11	< 0.096	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 10	--	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.11	< 0.11	< 0.096	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.05	--	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.11	< 0.11	< 0.096	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.05	--	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.11	< 0.11	< 0.096	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.10	--	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.11	< 0.11	< 0.096	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 10	--	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.11	< 0.11	< 0.096	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 10	--	< 10	< 10
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.048	< 0.049	< 0.043	< 0.046	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.05	--	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.11	< 0.11	< 0.096	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.10	--	< 0.1	< 0.1
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.19	< 0.11	< 0.11	< 0.096	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 10	--	< 10	< 10
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.11	< 0.11	< 0.096	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 10	--	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.11	< 0.11	< 0.096	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.05	--	< 0.05	< 0.05
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.19	< 0.11	< 0.11	< 0.096	**11 J**	**0.13 J**	< 0.19	< 0.19	**0.067 J**	**0.052 J**	< 10	--	< 10	< 10
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	**0.063**	< 0.05	< 0.05	< 0.05	**0.055**	< 0.05	< 0.19	< 0.11	< 0.11	< 0.096	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 10	--	< 10	< 10
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	**0.051**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.11	< 0.11	< 0.096	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 10	--	< 10	< 10
Inorganic Compounds																										
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	--	< 0.02	< 0.02
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.05	--	< 0.05	< 0.05
Barium	2	mg/L	**0.31**	**0.37**	**0.402**	**0.394**	**0.467**	**0.462**	**0.143**	**0.0398**	**0.245**	**0.148**	**0.20**	**0.47**	**0.20**	**0.39**	**0.46**	**0.092**	**0.069**	**0.22**	**0.22**	**0.22**	**0.221**	--	**0.230**	**0.249**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.004	< 0.01	--	< 0.01	< 0.01
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.0072**	< 0.005	**0.0086**	< 0.005	**0.0113**	**0.0056**	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	--	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.0012	< 0.0012	< 0.0012	**0.0012 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	--	< 0.01	< 0.01
Copper	1.3	mg/L	< 0.01	**0.01**	< 0.01	**0.011**	**0.0112**	**0.0435**	**0.0348**	**0.0481**	**0.0105**	**0.0759**	**0.030**	< 0.0019	**0.028**	**0.0052 J**	< 0.0019	**0.0024 J**	< 0.020	< 0.020	**0.0073 J**	**0.0031 J**	< 0.01	--	< 0.01	< 0.01
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	--	< 0.01	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.005	< 0.01	--	< 0.01	< 0.01
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	**0.000092**	< 0.00020	--	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.040	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.04	< 0.02	--	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.02	--	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 1.00	--	< 1.00	< 1
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.0024	**0.0035 J**	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	**0.0049 J**	**0.0045 J**	< 0.01	--	< 0.01	< 0.01
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0331**	< 0.02	< 0.02	< 0.02	< 0.02	**0.021**	< 0.0087	< 0.0087	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	--	< 0.02	< 0.02

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
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JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
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UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR	MW-309BR
		Sample Date	7/12/2006	1/12/2006	7/21/2005	1/20/2005	7/15/2004	1/22/2004	7/16/2003	1/17/2003	7/11/2002	1/17/2002	1/17/2002	7/12/2001	1/23/2001
		Unit	Pre-Extraction												
Volatile Organic Compounds															
Acetone	4,000	µg/L	50 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	**15 J**	**25 R**	**25 R**	25 U	25 U
Benzene	5	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.12 J**	1.0 U	1.0 U	1.0 U	**0.16 J**	1.0 U
Carbon Disulfide	4,000	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	µg/L	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	5	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds															
2-Methylnaphthalene	*	µg/L	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds															
Aluminum (fume or dust)	*	mg/L	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.38**	**0.13 B**	**0.13 B**	**15**	**2.4 N**
Antimony	0.01	mg/L	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0044 U	0.0036 U	0.01 U	0.01 U
Barium	2	mg/L	**0.22**	**0.381**	**0.375**	**0.38**	**0.38**	**0.38**	**0.33**	**0.39**	**0.38**	**0.39**	**0.39**	**0.53**	**0.4**
Beryllium	0.004	mg/L	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.00073 U	0.00068 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	**26.4**	**24.4**	**26**	**25**	**28**	**25**	**27**	**25**	**26**	**27**	**40**	**27**
Chromium	0.1	mg/L	0.01 U	0.005 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	**0.0032 B**	0.01 U	0.002 U	**0.18 N**	**0.0063 B**
Cobalt	*	mg/L	--	0.007 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	**0.0025 B**	**0.006 B**	**0.0028 B**	**0.0036 B**	**0.14**	**0.021**
Copper	1.3	mg/L	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.002 B**	**0.0062 B**	0.0015 U	0.0019 U	**0.21 N**	**0.027**
Cyanide	0.2	mg/L	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron	*	mg/L	--	**1.42**	**1.2**	**1.5**	**1.2**	**1.3**	**1.3**	**1.3**	**1.8**	**1.6**	**1.6**	**28**	**5.0**
Lead	0.015	mg/L	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	**0.003 B**	0.005 U
Magnesium	*	mg/L	< 0.0002	--	**12.1**	**9.83**	**11**	**10**	**11**	**10**	**12**	**10**	**11**	**11**	**23**
Manganese	*	mg/L	< 0.02	--	**0.355**	**0.321**	**0.36**	**0.34**	**0.35**	**0.35**	**0.32**	**0.33**	**0.37 J**	**0.37 J**	**0.78 N**
Mercury	0.002	mg/L	0.0002 U	0.0002 UJ	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	**0.000077 B**	0.0002 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 UJ	0.04 U	0.04 U	0.04 U	0.04 U	**0.1**	0.04 U
Potassium	*	mg/L	--	5 U	**2.98**	**3.6**	**3.5**	**3.6**	**3**	**3.5**	**3.7**	**3.6 J**	**3.6 J**	**5.3**	**3.6**
Selenium	0.05	mg/L	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	**13.1**	**12.3**	**12**	**12**	**13**	**13**	**13**	**13**	**12**	**12**	**14**	**13**
Thallium	0.002	mg/L	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 U	0.002 UN	0.002 U	0.002 U	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	**0.046**	**0.0072 B**
Zinc	2	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.03**	**0.051**	0.02 U	0.02 U	0.02 U	**0.054**	**0.0086 B**

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January 2001 through January 2018
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Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-309TZ	MW-309TZ	MW-309TZ	MW-309TZ	MW-309TZ	MW-309TZ	MW-309TZ	MW-309TZ	MW-309TZ	MW-309TZ	MW-309TZ	MW-309TZ	MW-309TZ	MW-309TZ	MW-309TZ	MW-309TZ	MW-309TZ	MW-309TZ
		Sample Date	7/21/2009	1/20/2009	07/23/2008	1/9/2008	7/12/2007	2/14/2007	7/12/2006	1/11/2006	7/21/2005	1/20/2005	7/14/2004	1/20/2004	7/16/2003	1/15/2003	7/10/2002	1/16/2002	7/12/2001	1/24/2001
		Unit	During Extraction						Pre-Extraction											
Volatile Organic Compounds																				
Acetone	4,000	µg/L	< 100	< 100	< 100	< 50	< 50	< 50	50 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	**72**	**65**	**17 J**
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.12 J**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.0**	**1.6**	**12**	**28**	**49**	**20**
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.31 J**	5.0 U	5.0 U	**0.42 J**
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	**2.3**	1.0 U	**1.2**	**1.0**	1.0 U	**0.61 J**	**0.65 J**	**0.33 J**	**0.64 J**	**3.4**
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.37 J**	**0.55 J**
Semivolatile Organic Compounds																				
2-Methylnaphthalene	*	µg/L	--	--	**--**	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	< 0.20	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	µg/L	< 0.20	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 0.20	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.20	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	0.4 J
Benzo(a)pyrene	0.2	µg/L	< 0.20	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.20	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.20	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.20	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.20	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.20	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	**--**	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 0.20	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	< 0.20	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	11 J	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.20	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 0.20	**0.036 J**	**0.10 J**	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	< 0.20	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	< 0.20	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds																				
Aluminum (fume or dust)	*	mg/L	--	--	**--**	--	--	--	--	**0.306**	**0.358**	**0.48**	**0.39**	**0.51**	**0.7**	**0.85**	**2.9**	**29**	**4.7**	**22**
Antimony	0.01	mg/L	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.020	< 0.010	< 0.01	< 0.05	< 0.05	< 0.05	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	**0.0039 B**	0.01 U	0.01 U
Barium	2	mg/L	**0.48**	**0.38**	**0.53**	**0.511**	**0.460**	**0.406**	**0.336**	**0.248**	**0.245**	**0.22**	**0.17**	**0.17**	**0.12**	**0.15**	**0.069**	**0.29**	**0.068**	**0.25**
Beryllium	0.004	mg/L	< 0.0040	< 0.0040	< 0.004	< 0.01	< 0.01	< 0.01	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.004 U	**0.0015 B**	0.004 U	**0.0013 B**
Cadmium	0.005	mg/L	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	**0.00092 B**	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	**23.5**	**37.2**	**26**	**25**	**31**	**24**	**46**	**41**	**71**	**82**	**120**
Chromium	0.1	mg/L	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.010 U	0.01 U	**0.034**	**0.0023 B**	**0.022**
Cobalt	*	mg/L	--	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	**0.0016 B**	**0.043**	**0.0027 B**	**0.029**
Copper	1.3	mg/L	< 0.020	< 0.020	< 0.02	< 0.01	< 0.01	< 0.01	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.020 U	**0.0027 B**	**0.082**	**0.0076 B**	**0.053**
Cyanide	0.2	mg/L	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.010 U	0.01 U	0.01 U	0.01 U	--
Iron	*	mg/L	--	--	--	--	--	--	--	**1.14**	0.1 U	**0.08**	**0.29**	**0.29**	**1.2**	**0.23**	**2**	**56**	**2.7**	**41**
Lead	0.015	mg/L	< 0.010	< 0.0050	< 0.005	< 0.01	< 0.01	< 0.01	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	**0.015**	0.005 U	**0.01**
Magnesium	*	mg/L	--	--	--	--	--	--	--	**5.43**	**2.5**	**4.2**	**2.1**	**2.4**	**1.7**	**0.17 B**	**0.47 B**	**12**	**0.52**	**8.9**
Manganese	*	mg/L	--	--	--	--	--	--	--	**0.126**	0.01 U	**0.089**	**0.01**	**0.015**	0.04 U	**0.0037 B**	**0.027**	**0.59**	**0.027**	**0.47**
Mercury	0.002	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	< 0.040	< 0.040	< 0.04	< 0.02	< 0.02	< 0.02	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.040 U	0.04 U	**0.035 B**	0.04 U	**0.024 B**
Potassium	*	mg/L	--	--	--	--	--	--	--	**5.58**	**5.66**	**5.6**	**5.8**	**5.8**	**6.2**	**7.0**	**5.6**	**13**	**9.1**	**15**
Selenium	0.05	mg/L	< 0.020	< 0.010	< 0.01	< 0.02	< 0.02	< 0.02	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	**0.0046 B**	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	**30.7**	**31.9**	**31**	**26**	**25**	**27**	**23**	**12**	**15**	**16**	**21**
Thallium	0.002	mg/L	< 0.0010	< 0.0010	< 0.001	< 1.00	< 1.00	< 1	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.0020 UWN	0.002 UWN	0.002 U	0.002 UW	0.002 U
Vanadium (fume or dust)	0.2	mg/L	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	**0.0051 B**	**0.095**	**0.011**	**0.068**
Zinc	2	mg/L	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U	0.02 U	**0.027**	0.02 U	0.02 U	0.02 U	**0.02**	0.020 U	**0.011 B**	**0.13**	**0.0077 B**	**0.11**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR
		Sample Date	1/24/2018	7/26/2017	1/26/2017	7/27/2016	1/20/2016	7/27/2015	1/12/2015	7/15/2014	1/7/2014	7/9/2013	1/8/2013	7/24/2012	1/17/2012	7/5/2011	1/18/2011	7/15/2010	1/7/2010	7/27/2009	1/13/2009	7/22/2008	1/8/2008	7/12/2007	2/15/2007
		Unit	Post-Extraction						During Extraction															
Volatile Organic Compounds																								
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	< 100	< 50	< 50	< 50
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	< 0.25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60 *	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Semivolatile Organic Compounds																								
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.22	< 0.19	< 0.10	< 0.12	< 0.097	**1.1**	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 0.22	< 0.19	< 0.10	< 0.12	< 0.097	< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Anthracene	10	µg/L	< 0.05	< 0.05	**0.12**	**0.11**	**0.12**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.22	< 0.19	< 0.10	< 0.12	< 0.097	< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.22	< 0.19	< 0.10	< 0.12	< 0.097	**0.20**	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.22	< 0.19	< 0.10	< 0.12	< 0.097	**0.35**	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.22	< 0.19	< 0.10	< 0.12	< 0.097	**0.54**	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.22	< 0.19	< 0.10	< 0.12	< 0.097	**0.37**	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.22	< 0.19	< 0.10	< 0.12	< 0.097	**0.44**	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.22	< 0.19	< 0.047	< 0.056	< 0.043	**0.39**	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.22	< 0.19	< 0.10	< 0.12	< 0.097	**0.11 J**	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.22	< 0.19	< 0.10	< 0.12	< 0.097	**0.4**	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.22	< 0.19	< 0.10	< 0.12	< 0.097	< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.22	< 0.19	< 0.10	< 0.12	< 0.097	**0.39**	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**7.6**	< 0.50	< 0.50	< 0.50	< 0.22	**0.25**	< 0.10	< 0.12	11 J	< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.22	< 0.19	< 0.10	< 0.12	< 0.097	< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.22	< 0.19	< 0.10	< 0.12	< 0.097	**0.39**	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Inorganic Compounds																								
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.05	< 0.05	< 0.05
Barium	2	mg/L	**0.286**	**0.262**	**0.299**	**0.566**	**0.397**	**0.479**	**0.142**	**0.192**	**0.261**	**0.209**	**0.23**	**0.20**	**0.21**	**0.21**	**0.22**	**0.53**	**0.27**	**0.19**	**0.13**	**0.21**	**0.228**	**0.221**	**0.243**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.00020	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.004	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0012	< 0.0012	< 0.0012	**0.0012 J**	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	**0.0127**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	**0.0026 J**	< 0.0019	**0.0020 J**	< 0.020	< 0.020	< 0.020	**0.033**	**0.0068 J**	< 0.01	< 0.01	< 0.01
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0050	**0.016**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.005	< 0.01	< 0.01	< 0.01
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04	< 0.04	**0.0030 J**	**0.0045 J**	< 0.0023	< 0.040	< 0.040	< 0.040	**0.027 J**	**0.0043 J**	< 0.02	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 1.00	< 1.00	< 1
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.0087	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	**0.010 J**	< 0.02	< 0.02	< 0.02	< 0.02

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR	MW-310BR
		Sample Date	7/11/2006	1/13/2006	7/20/2005	1/20/2005	7/15/2004	1/22/2004	7/16/2003	1/21/2003	7/16/2002	7/02 DUP	1/21/2002	1/18/2001	7/17/2001
		Unit	Pre-Extraction												
Volatile Organic Compounds															
Acetone	4,000	µg/L	50 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	5	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.0**	**2.4**	1.0 U	1.0 U	**0.23 J**
Carbon Disulfide	4,000	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.6**	**1.5**	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	µg/L	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.34 J**	1.0 U	1.0 U	**0.33 J**
Trichloroethylene	5	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.7 J**	**0.7 J**	2.0 U	2.0 U	**1.2 J**
Semivolatile Organic Compounds															
2-Methylnaphthalene	*	µg/L	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	**0.58 J**	**0.78 J**	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	**0.45**	**0.48**	10 U	10 U	**0.56 J**	**0.59 J**	**0.5 J**	10 U	10 U
Acenaphthylene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	**5.1 J**	**6.3 J**	10 U	10 U	10 U
Phenanthrene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds															
Aluminum (fume or dust)	*	mg/L	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.044 B**	**0.085 B**	**8.3**	**0.11 B**	**0.095 BN**
Antimony	0.01	mg/L	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.13**	**0.206**	**0.205**	**0.2**	**0.19**	**0.18**	**0.17**	**0.22**	**0.19**	**0.19**	**0.26**	**0.18**	**0.18**
Beryllium	0.004	mg/L	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	**10.8**	**12.2**	**11**	**9.8**	**10**	**8.6**	**15**	**10**	**10**	**16**	**10**	**9.9**
Chromium	0.1	mg/L	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	**0.0089 B**	0.01 U	0.01 U
Cobalt	*	mg/L	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0016 B**	**0.002 B**	**0.0075 B**	0.01 U	0.01 U
Copper	1.3	mg/L	**0.0353**	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.012 B**	**0.0051 B**	**0.007 B**	**0.05**	**0.0014 B**	**0.0026 B**
Cyanide	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron	*	mg/L	--	**5.78**	**6.25**	**5.4**	**4.9**	**5.2**	**4.4**	**5.8**	**5**	**5.1**	**18**	**5.2**	**5.1**
Lead	0.015	mg/L	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.0019 B**	0.005 U	0.005 U
Magnesium	*	mg/L	< 0.0002	--	**6.16**	**6.69**	**5.8**	**5.3**	**5.5**	**5**	**6.4**	**5.4**	**5.5**	**9**	**5.5**
Manganese	*	mg/L	< 0.02	--	**0.798**	**0.821**	**0.77**	**0.72**	**0.73**	**0.64**	**0.81**	**0.71**	**0.72**	**1.1**	**0.7**
Mercury	0.002	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U
Nickel	0.1	mg/L	**0.0397**	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	**0.0069 B**	**0.0063 B**	**0.006 B**	**0.017 B**	0.04 U	0.04 U
Potassium	*	mg/L	--	5 U	**2.93**	**2.8**	**2.6**	**2.6**	**1.8**	**2.9**	**2.6**	**2.6**	**3.7**	**2.7**	**2.6**
Selenium	0.05	mg/L	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.005 B**	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	**14.3**	**16.7**	**13**	**13**	**13**	**12**	**13**	**12**	**12**	**13**	**12**	**12**
Thallium	0.002	mg/L	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 UW	0.002 UW	0.002 UW	0.002 U	0.002 UW	0.002 UWN
Vanadium (fume or dust)	0.2	mg/L	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.051**	0.01 U	0.01 U
Zinc	2	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.03**	**0.02**	0.02 U	0.02 U	**0.024**	**0.0077 B**	0.02 U

Notes:
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M (Organic) - Spike sample recovery outside control limits
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Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-310TZ	MW-310TZ	MW-310TZ	MW-310TZ	MW-310TZ	MW-310TZ	MW-310TZ	MW-310TZ	MW-310TZ	MW-310TZ	MW-310TZ	MW-310TZ	MW-310TZ	MW-310TZ	MW-310TZ	MW-310TZ
		Sample Date	7/21/2009	1/14/2009	07/22/2008	1/9/2008	7/10/2007	2/15/2007	7/11/2006	1/14/2006	1/20/2005	7/20/2005	7/05 DUP	1/20/2005	7/15/2004	1/22/2004	7/16/2003	1/16/2003	7/10/2002
		Unit	During Extraction						Pre-Extraction										
Volatile Organic Compounds																			
Acetone	4,000	µg/L	< 100	< 100	< 100	< 50	< 50	< 50	50 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.1 J**	1.0 U
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.36 J**	1.0 U
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.15 J**	1.0 U
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds																			
2-Methylnaphthalene	*	µg/L	--	--	**--**	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	< 0.19	**0.038 J**	**0.030 J**	< 10	< 10	< 10	10 U	0.2 U	0.2 U	**0.23**	**0.24**	0.2 U	0.2 U	0.2 U	10 U	10 U	**0.3 J**
Acenaphthylene	10	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.19	< 0.19	< 0.19	< 0.05	**0.18**	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.19	< 0.19	< 0.19	< 0.10	**0.15**	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.19	< 0.19	< 0.19	< 0.05	**0.060**	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.19	< 0.19	< 0.19	< 0.10	**0.38**	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	**--**	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	11 J	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.19	< 0.19	< 0.19	< 0.05	**0.32**	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U
Inorganic Compounds																			
Aluminum (fume or dust)	*	mg/L	--	--	**--**	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.14 B**	0.2 U	
Antimony	0.01	mg/L	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U	0.01 U	0.02 U	0.006 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.020 U	0.02 U
Arsenic	0.05	mg/L	< 0.020	< 0.010	< 0.01	< 0.05	< 0.05	< 0.05	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U
Barium	2	mg/L	**0.13**	**0.1**	**0.11**	**0.107**	**0.128**	**0.175**	**0.244**	**0.231**	**0.23**	**0.211**	**0.214**	**0.22**	**0.17**	**0.13**	**0.14**	**0.15**	**0.15**
Beryllium	0.004	mg/L	< 0.0040	< 0.0040	< 0.004	< 0.01	< 0.01	< 0.01	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.004 U
Cadmium	0.005	mg/L	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	**0.00075 B**
Calcium metal	*	mg/L	--	--	**--**	--	--	--	--	**20.1**	**22**	**20.4**	**20.8**	**21**	**24**	**25**	**34**	**21**	**17**
Chromium	0.1	mg/L	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.010 U	0.01 U
Cobalt	*	mg/L	--	--	**--**	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U
Copper	1.3	mg/L	< 0.020	< 0.020	< 0.02	< 0.01	< 0.01	< 0.01	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.020 U	0.02 U
Cyanide	0.2	mg/L	< 0.010	< 0.010	< 0.01	< 0.01	**0.017**	< 0.01	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.010 U	0.01 U
Iron	*	mg/L	--	--	**--**	--	--	--	--	**4.8**	**2.9**	**4.15**	**4.23**	**2.9**	**0.24**	**0.22**	**0.05**	**0.68**	**0.95**
Lead	0.015	mg/L	< 0.010	< 0.0050	< 0.005	< 0.01	< 0.01	< 0.01	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U
Magnesium	*	mg/L	--	--	**--**	--	--	--	--	**6.37**	**4.8**	**5.98**	**6.1**	**4.6**	**1.5**	**1.1**	**0.49**	**1.7**	**1.8**
Manganese	*	mg/L	--	--	**--**	--	--	--	--	**0.748**	**0.62**	**0.705**	**0.717**	**0.61**	**0.083**	**0.063**	0.04 U	**0.14**	**0.18**
Mercury	0.002	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U
Nickel	0.1	mg/L	< 0.040	< 0.040	< 0.04	< 0.02	< 0.02	< 0.02	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.040 U	0.04 U
Potassium	*	mg/L	**--**	**--**	**--**	--	--	--	--	5 U	**3.3**	**2.94**	**3.11**	**3.2**	**3.7**	**3.6**	**3.8**	**3.2**	**3.1**
Selenium	0.05	mg/L	< 0.020	< 0.010	< 0.01	< 0.02	< 0.02	< 0.02	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	**0.0061 B**
Sodium	*	mg/L	--	--	**--**	--	--	--	--	**14.6**	**15**	**15.3**	**15.4**	**15**	**19**	**19**	**19**	**23**	**23**
Thallium	0.002	mg/L	< 0.0010	< 0.0010	< 0.001	< 1.00	< 1.00	< 1	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.0020 UWN	0.002 UWN
Vanadium (fume or dust)	0.2	mg/L	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U
Zinc	2	mg/L	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.02**	0.020 U	0.02 U

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313
		Sample Date	1/25/2018	7/27/2017	1/25/2017	7/28/2016	1/20/2016	7/29/2015	1/13/2015	7/17/2014	1/9/2014	7/9/2013	1/8/2013	7/25/2012	1/17/2012	7/5/2011	1/17/2011	7/14/2010	1/5/2010	7/22/2009	1/14/2009	7/21/2008	1/8/2008	7/12/2007	2/13/2007
		Unit	Post-Extraction						During Extraction															
Volatile Organic Compounds																								
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	**8.7 J**	< 100	< 100	< 100	< 100	< 50	< 50	< 50
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	< 0.25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	**0.35 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Semivolatile Organic Compounds																								
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20	< 0.19	< 0.098	< 0.11	< 0.10	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 0.19	< 0.098	< 0.11	< 0.10	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.19	< 0.098	< 0.11	< 0.10	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.19	< 0.098	< 0.11	< 0.10	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.19	< 0.098	< 0.11	< 0.10	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.098	< 0.11	< 0.10	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	µg/L	< 0.1	**0.16**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.098	< 0.11	< 0.10	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.19	< 0.098	< 0.11	< 0.10	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.19	< 0.044	< 0.050	< 0.045	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	**0.12**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.098	< 0.11	< 0.10	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.098	< 0.11	< 0.10	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.098	< 0.11	< 0.10	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	**0.13**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.19	< 0.098	< 0.11	< 0.10	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.20	**2.3**	**0.89**	**0.52**	11 J	< 0.23	< 0.19	< 0.19	< 0.19	**0.055**	< 10	< 10	< 10
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.19	< 0.098	< 0.11	< 0.10	--	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.19	< 0.098	< 0.11	< 0.10	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Inorganic Compounds																								
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.05	< 0.05	< 0.05
Barium	2	mg/L	**0.118**	**0.169**	**0.205**	**0.199**	**0.147**	**0.213**	**0.141**	**0.197**	**0.151**	**0.145**	**0.18**	**0.14**	**0.12**	**0.14**	**0.10**	**0.23**	**0.12**	**0.14**	**0.14**	**0.38**	**0.202**	**0.203**	**0.212**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.00020	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.004	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	**0.00055 J**	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0012	< 0.0012	**0.0027 J**	**0.0027 J**	< 0.010	< 0.010	**0.0013 J**	< 0.01	< 0.01	< 0.01	< 0.01
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.0019	< 0.0019	**0.0038 J**	**0.0023 J**	< 0.020	< 0.020	**0.0056 J**	< 0.02	< 0.01	< 0.01	< 0.01
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0050	**0.014**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.002	< 0.002
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	**0.0047 J**	< 0.010	< 0.010	**0.0028 J**	< 0.005	< 0.01	< 0.01	< 0.01
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	--	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04	< 0.04	< 0.0023	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.04	< 0.02	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 1.00	< 1.00	< 1
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	**0.0053 J**	**0.0048 J**	**0.0060 J**	**0.0030 J**	< 0.010	< 0.010	**0.0022 J**	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	2	mg/L	**0.0283**	**0.0244**	< 0.02	**0.0444**	< 0.02	< 0.02	**0.0564**	< 0.02	**0.0501**	< 0.02	< 0.020	< 0.020	< 0.0087	< 0.0087	**0.036**	**0.035**	**0.027**	< 0.020	**0.034**	< 0.02	< 0.02	< 0.02	**0.0672**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313	MW-313
		Sample Date	7/12/2006	1/12/2006	7/19/2005	1/19/2005	7/14/2004	1/21/2004	7/16/2003	1/20/2003	7/15/2002	1/17/2002	7/16/2001	1/19/2001
		Unit	Pre-Extraction											
Volatile Organic Compounds														
Acetone	4,000	µg/L	50 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	5	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	4,000	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	µg/L	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	700	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1,000	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.68 J**	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	5	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds														
2-Methylnaphthalene	*	µg/L	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds														
Aluminum (fume or dust)	*	mg/L	--	**0.571**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.033 B**	**0.045 B**	**0.032 B**	**0.042 B**	**0.043 B**
Antimony	0.01	mg/L	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.02 U	**0.0054 B**	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.23**	**0.218**	**0.162**	**0.22**	**0.23**	**0.21**	**0.19**	**0.22**	**0.23**	**0.2**	**0.22**	**0.24**
Beryllium	0.004	mg/L	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	**34.8**	**27**	**31**	**32**	**33**	**32**	**31**	**32**	**32**	**31**	**33**
Chromium	0.1	mg/L	0.01 U	0.005 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	--	0.007 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Copper	1.3	mg/L	**0.0245**	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0021 B**	0.02 U	0.02 U	0.02 U	0.02 U
Cyanide	0.2	mg/L	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron	*	mg/L	--	**0.606**	**0.436**	**0.56**	**0.59**	**0.6**	**0.54**	**0.67**	**0.63 N**	**0.69**	**0.64**	**0.81 N**
Lead	0.015	mg/L	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	**14.1**	**10.5**	**13**	**13**	**13**	**12**	**13**	**13**	**12**	**13**	**14**
Manganese	*	mg/L	--	**0.399**	**0.288**	**0.39**	**0.4**	**0.39**	**0.38**	**0.38**	**0.39**	**0.37**	**0.39**	**0.44**
Mercury	0.002	mg/L	0.0002 U	0.0002 UJ	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	**0.000072 B**	0.0002 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 UJ	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	--	5 U	**2.77**	**3.3**	**3.4**	**3.2**	**2.8**	**3**	**3.2**	**2.9**	**3.1**	**3.2**
Selenium	0.05	mg/L	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0068 B**	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	**14.2**	**12.7**	**13**	**14**	**13**	**14**	**14**	**13**	**13**	**13**	**14**
Thallium	0.002	mg/L	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 UWN	0.002 UWN	0.002 U	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.03**	**0.022**	0.02 U	0.02 U	0.02 U	0.02 U

Notes:
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ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
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Bold - Exceeds the laboratory detection limit
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RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315
		Sample Date	1/24/2018	7/26/2017	1/26/2017	7/26/2016	1/21/2016	7/30/2015	7/30/2015 DUP	1/13/2015	1/13/2015 DUP	7/14/2014	7/14/2014 DUP	1/9/2014	1/9/2014 DUP	7/11/2013	1/8/2013	1/8/2013 DUP	7/25/2012	7/25/2012 DUP	1/18/2012	1/18/2012 DUP	7/7/2011	1/19/2011	1/19/2011 DUP	7/15/2010	7/15/2010 DUP	1/6/2010	1/6/2010 DUP	7/29/2009	1/15/2009	7/17/2008	7/17/2008 DUP	1/10/2008	7/12/2007	7/12/2007 DUP	2/15/2007
		Unit	Post-Extraction							During Extraction																									
Volatile Organic Compounds																																			
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 100	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 50	< 50	< 50	< 50
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	< 0.25	**0.29 J**	**0.29 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	**1.9 J**	**1.9 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	**1.6 J**	**1.6 J**	< 5.0	**0.15 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	**0.90 J**	**0.95 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 5.0	**0.24 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5
Semivolatile Organic Compounds																																			
Acenaphthene	2,000	µg/L	**0.96**	**2.5**	**4.5**	**4.0**	**2.1**	**0.54**	**0.62**	**0.56**	**0.65**	**1.5**	**1.5**	**1.0**	**0.96**	**1.1**	< 1.9	**1.9**	**0.73**	**0.77**	**1.5**	**1.7**	< 0.11	**0.99**	**1.1**	**1.1**	**1.2**	**1.8**	**1.6**	**2.9 ***	**1.8**	**2**	**2**	< 10	< 10	< 10	< 10
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.9	**0.56**	**0.24**	< 0.21	< 0.11	**0.52**	< 0.11	< 0.097	< 0.098	< 0.20	< 0.20	< 0.19	< 0.19	**0.020 J**	< 0.19	< 0.19	< 10	< 10	< 10	< 10
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.20	< 0.21	< 0.21	< 0.11	< 0.11	< 0.11	< 0.097	< 0.098	< 0.20	< 0.20	< 0.19	< 0.19	**0.043 J**	**0.04 J**	**0.033 J**	< 10	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.16**	< 0.05	**0.22**	**6.0**	<0.20	< 0.21	< 0.21	**0.51**	< 0.11	< 0.11	**0.33**	< 0.098	**0.20**	< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	**0.055**	**0.07**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.18**	< 0.05	**0.53**	**15**	<0.20	< 0.21	< 0.21	**0.76**	< 0.11	< 0.11	**0.77**	< 0.098	**0.35**	< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	**0.11**	**0.11**	**0.17**	< 0.1	**0.1**	< 0.10	< 0.10	< 0.10	< 0.10	**0.14**	< 0.10	**0.97**	**25**	<0.20	**0.29**	**0.25**	**1.9**	< 0.11	< 0.11	**1.1**	< 0.098	**0.54**	< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	**0.13**	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	**0.16**	< 0.10	**0.66**	**16**	<0.20	< 0.21	< 0.21	**1.2**	< 0.11	< 0.11	**0.88**	< 0.098	**0.37**	< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	**0.057**	**0.054**	**0.084**	**0.055**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.15**	< 0.05	**0.35**	**8.7**	<0.20	< 0.21	< 0.21	**1.7**	< 0.11	< 0.11	**0.91**	< 0.098	**0.44**	< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	< 10
Chrysene	0.2	µg/L	< 0.05	< 0.05	**0.063**	**0.055**	**0.093**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.15**	< 0.05	**0.47**	**15**	<0.20	< 0.21	< 0.21	**0.84**	< 0.048	**0.066 J**	**0.69**	< 0.044	**0.39**	< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	**0.16**	< 0.10	< 0.10	**3.8**	<0.20	< 0.21	< 0.21	< 0.11	< 0.11	< 0.11	< 0.097	< 0.098	**0.11 J**	< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1	< 0.1
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.10	< 0.10	**0.54**	**14**	<0.20	< 0.21	< 0.21	**0.82**	< 0.11	< 0.11	**0.78**	< 0.098	**0.40**	< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	< 10
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 1.9	<0.20	< 0.21	< 0.21	< 0.11	< 0.11	< 0.11	< 0.097	< 0.098	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	**0.065**	**0.085**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.16**	< 0.05	**0.51**	**15**	<0.20	< 0.21	< 0.21	**1.0**	< 0.11	< 0.11	**0.57**	< 0.098	**0.39**	< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.2**	**2**	< 0.50	< 0.50	< 0.50	< 0.50	**0.61**	< 0.50	**2.9**	11 J	<0.20	< 0.21	< 0.21	**0.41**	**2.5**	**0.62**	**0.98**	**0.87**	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	< 10
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.050	< 0.05	**0.094**	< 1.9	<0.20	< 0.21	< 0.21	< 0.11	< 0.11	< 0.11	**0.11 J**	< 0.098	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	< 10
Pyrene	1,000	µg/L	**0.059**	**0.077**	**0.12**	**0.1**	**0.13**	**0.08**	**0.081**	< 0.05	< 0.05	< 0.05	**0.051**	**0.091**	< 0.05	**0.41**	**9.0**	<0.20	< 0.21	< 0.21	**0.69**	< 0.11	< 0.11	**0.66**	< 0.098	**0.39**	< 0.20	< 0.19	< 0.19	< 0.19	**0.024 J**	**0.028 J**	**0.027 J**	< 10	< 10	< 10	< 10
Inorganic Compounds																																			
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	< 0.02
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.02	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.0500	< 0.05	< 0.05	< 0.05
Barium	2	mg/L	**0.465**	**0.429**	**0.422**	**0.438**	**0.447**	**0.445**	**0.437**	**0.455**	**0.459**	**0.399**	**0.413**	**0.473**	**0.48**	**0.487**	**0.49**	**0.48**	**0.52**	**0.53**	**0.53**	**0.54**	**0.020**	**0.52**	**0.54**	**0.53**	**0.54**	**0.48**	**0.51**	**0.5**	**0.57**	**0.5**	**0.51**	**0.507**	**0.481**	**0.479**	**0.463**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.00020	**0.00036 J**	**0.00037 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010	< 0.010
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	**0.0012 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	< 0.010
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.02	< 0.0019	< 0.0019	< 0.0019	**0.0032 JB**	**0.0026 JB**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	< 0.010	< 0.010	< 0.010
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	< 0.010
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0100	< 0.010	< 0.010	< 0.010
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	**0.000094 J**	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04	< 0.04	< 0.04	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.0200	< 0.02	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.010	< 0.010	< 0.010	< 0.010	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1.00	< 1
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	< 0.010
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0259**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.020	**0.024**	< 0.020	< 0.0087	< 0.0087	**0.057**	< 0.0087	**0.0091 J**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	< 0.02

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315	MW-315
		Sample Date	7/13/2006	7/13/2006 DUP	1/13/2006	7/20/2005	1/18/2005	7/15/2004	1/22/2004	7/18/2003	1/21/2003	7/12/2002	1/21/2002	7/16/2001	1/24/2001
		Unit	Pre-Extraction												
Volatile Organic Compounds															
Acetone	4,000	µg/L	50 R	50 R	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	5	µg/L	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.11 J**	**0.19 J**
Carbon Disulfide	4,000	µg/L	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.16 J**	1.0 U	1.0 U	1.0 U	**0.19 J**
Methylene Chloride	5	µg/L	5 U	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	5	µg/L	5 U	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	5 U	5 U	2.0 U	2.0 U	2.0 U	2.0 U	**2.5**	**2.0**	**2.3**	**1.5 J**	**2.1 J**	**3.2**	**2.8**
Semivolatile Organic Compounds															
2-Methylnaphthalene	*	µg/L	--	--	**7.5**	**6.7**	**5.5**	**22**	**26**	**12**	**16**	**6.5 J**	**12**	**21**	**35**
Acenaphthene	2,000	µg/L	**12**	**15**	**32**	**28**	**39**	**61**	**49**	**33**	**50**	**49**	**45**	**54**	**53**
Acenaphthylene	10	µg/L	10 U	10 U	0.2 U	0.2 U	0.8 U	2.0 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	10 U	10 U	**0.55**	**0.61**	0.8 U	2.0 U	**1.2**	10 U	**1.0 J**	**0.86 J**	**0.76 J**	**1.3 J**	**0.97 J**
Benz(a)anthracene	0.1	µg/L	0.05 U	0.05 U	0.2 U	0.2 U	0.8 U	2.0 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	0.05 U	0.05 U	0.2 U	0.2 U	0.8 U	2.0 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	0.1 U	0.1 U	0.2 U	0.2 U	0.8 U	2.0 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	10 U	10 U	0.2 U	0.2 U	0.8 U	2.0 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	10 U	10 U	0.2 U	0.2 U	0.8 U	2.0 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	0.05 U	0.05 U	0.2 U	0.2 U	0.8 U	2.0 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	0.1 U	0.1 U	0.2 U	0.2 U	0.8 U	2.0 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	0.001 U	0.2 U	0.8 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	10 U	10 U	0.2 U	0.2 U	0.8 U	2.0 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	10 U	10 U	**0.27**	**0.33**	0.8 U	2.0 U	0.2 U	10 U	**1.1 J**	**0.93 J**	**0.48 J**	**1.4 J**	**0.86 J**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	0.05 U	0.05 U	0.2 U	0.2 U	0.8 U	2.0 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	10 U	10 U	0.2 U	0.2 U	0.8 U	2.0 U	**1.1**	10 U	10 U	10 U	10 U	10 U	**0.81 J**
Phenanthrene	10	µg/L	10 U	10 U	**1.6**	**1.5**	**1.3**	**4.5**	**4.7**	10 U	**4.0 J**	**2.4 J**	**3.5 J**	**6.4 J**	**6.5 J**
Pyrene	1,000	µg/L	10 U	10 U	**0.36**	**0.25**	0.8 U	2.0 U	**0.5**	10 U	10 U	10 U	10 U	10 U	**0.54 J**
Inorganic Compounds															
Aluminum (fume or dust)	*	mg/L	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.046 B**	**0.061 B**
Antimony	0.01	mg/L	0.02 U	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.404**	**0.395**	**0.306**	**0.282**	**0.3**	**0.3**	**0.29**	**0.27**	**0.3**	**0.3**	**0.29**	**0.29**	**0.29**
Beryllium	0.004	mg/L	0.01 U	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	0.005 U	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	**37.7**	**39.9**	**37**	**37**	**39**	**34**	**38**	**37**	**38**	**37**	**36**
Chromium	0.1	mg/L	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Copper	1.3	mg/L	0.01 U	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.002 B**	0.02 U	**0.0013 B**	0.02 U	0.02 U
Cyanide	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron	*	mg/L	--	--	**5.37**	**5.45**	**5.1**	**5.1**	**5.6**	**4.4**	**5.3**	**5.2**	**5.4**	**5.3**	**5.0**
Lead	0.015	mg/L	0.01 U	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	**16.2**	**16.5**	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**15**
Manganese	*	mg/L	--	--	**1.13**	**1.08**	**1.1**	**1.1**	**1.1**	**1**	**1.1**	**1.1**	**1**	**1.1**	**1.0**
Mercury	0.002	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	0.02 U	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	--	--	5 U	**4.2**	**4.4**	**4.3**	**4.3**	**3.6**	**4.2**	**4.2**	**4.1**	**4.1**	**4.1**
Selenium	0.05	mg/L	0.02 U	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.01**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	**18.8**	**20.1**	**17**	**18**	**19**	**17**	**19**	**18**	**18**	**18**	**18**
Thallium	0.002	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 UW	0.002 UWN	0.002 U	0.002 U	0.002 UW
Vanadium (fume or dust)	0.2	mg/L	0.01 U	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.033**	0.02 U	0.02 U	0.02 U	0.02 U

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318
		Sample Date	1/24/2018	7/27/2017	1/26/2017	7/28/2016	1/26/2016	7/30/2015	1/14/2015	7/17/2014	1/27/2014	7/11/2013	7/11/2013 DUP	1/9/2013	7/24/2012	2/6/2012	7/5/2011	7/5/2011 DUP	2/23/2011	7/13/2010	1/7/2010	1/14/2009	1/14/2009 DUP	7/16/2008	1/10/2008	1/10/2008 DUP	7/12/2007	2/14/2007	2/14/2007 DUP
			Post-Extraction						During Extraction																			
Volatile Organic Compounds																												
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 500	< 5,000	< 50	**380 J**	**390 J**	< 50	**160 J**	< 100	< 4000	< 4000	< 4000	< 50	< 50	< 50	< 50R	< 50
Benzene	5	µg/L	**59**	**240**	**470**	**240**	**99**	**19**	**1,400**	**1,700**	< 5.0	**3,300**	**3,300**	**670**	**3,700**	**1,700**	**4,600**	**4,500**	**3,500**	**1,100**	**5,700 D**	**5,900**	**7,300**	**3,700**	**5,200**	**5,200**	**6,200**	**5,300**	**5,400**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 250	< 6.0	< 30	< 30	< 6.0	< 50	<5.0	< 200	< 200	< 200	< 5.0	< 5.0	< 5	< 5	< 5
Ethylbenzene	700	µg/L	< 5.0	**23**	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0	< 5.0	**11**	**9.4**	< 25	< 250	**8.6 J**	**14 J**	**15 J**	**21 J**	**9.3 J**	**32**	**410**	**510**	**460**	**660**	**660**	**810**	**970**	**990**
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 250	< 10	< 50	< 50	< 10	< 50	<5.0	< 200	< 200	< 200	< 5.0	< 5.0	< 5	< 5 UJ	< 5
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 250	**4.7 J**	**21 J**	**34 J**	**8.2 J**	**750**	<5.0	< 200	< 200	< 200	**5.2**	< 5.0	< 5	< 5	< 5
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 250	< 1.3	< 6.5	< 6.5	< 1.3	< 50	<5.0	< 200	< 200	< 200	< 5.0	< 5.0	< 5	< 5	< 5
Xylenes, total	2,000	µg/L	< 5.0	**5.8**	**14**	**17**	**19**	**12**	**13**	**22**	< 5.0	**35**	**31**	< 25	< 250	**13 J**	**30 J**	**35 J**	**44 J**	**10 J**	**89**	**55 J**	**70 J**	**48 J**	**110**	**91**	**100**	**110**	**100**
Semivolatile Organic Compounds																												
Acenaphthene	2,000	µg/L	**9.9**	**16**	**22**	**21**	**13**	< 50	**37**	**31**	**2.8**	< 50	< 50	**11**	< 210	**28**	**30**	**35**	**42**	**7.2**	**28**	**26**	**25 J**	**28**	**56**	**46**	**54**	**40**	**37**
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 210	< 9.9	< 0.10	< 0.11	**0.46**	< 2.0	< 0.19	< 9.4	< 38	< 3.8	< 10	< 10	< 10	< 10	< 10
Anthracene	10	µg/L	**0.19**	**0.33**	**0.68**	**0.79**	**0.67**	**0.72**	**0.81**	**0.88**	**0.055**	**0.73**	**0.76**	< 2.0	< 210	< 9.9	**0.96**	**0.96**	**0.85**	< 2.0	**0.74**	< 9.4	< 38	**0.85 J**	< 10	< 10	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.50	< 0.05	< 0.05	< 0.05	< 0.05	< 2.0	< 210	< 9.9	< 0.10	< 0.11	< 0.11	< 2.0	< 0.19	< 9.4	< 38	< 3.8	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.50	< 0.05	< 0.05	< 0.05	< 0.05	< 2.0	< 210	< 9.9	< 0.10	< 0.11	< 0.11	< 2.0	< 0.19	< 9.4	< 38	< 3.8	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0	< 210	< 9.9	< 0.10	< 0.11	< 0.11	< 2.0 *	< 0.19	< 9.4	< 38	< 3.8	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	µg/L	< 0.1	**0.36**	< 0.1	< 0.1	< 0.1	< 0.1	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0	< 210	< 9.9	< 0.10	< 0.11	< 0.11	< 2.0	< 0.19	< 9.4	< 38	< 3.8	< 10	< 10	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.50	< 0.05	< 0.05	< 0.05	< 0.05	< 2.0	< 210	< 9.9	< 0.10	< 0.11	< 0.11	< 2.0	< 0.19	< 9.4	< 38	< 3.8	< 10	< 10	< 10	< 10	< 10
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.50	< 0.05	< 0.05	< 0.05	< 0.05	< 2.0	< 210	< 4.5	< 0.046	<0.047	<0.049	< 2.0	< 0.19	< 9.4	< 38	< 3.8	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	**0.23**	< 0.1	< 0.1	< 0.1	< 0.1	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0	< 210	< 9.9	< 0.10	<0.11	<0.11	< 2.0	< 0.19	< 9.4	< 38	< 3.8	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1
Fluoranthene	1,000	µg/L	< 0.1	**0.13**	**0.26**	**0.38**	**0.33**	**0.28**	< 1	**0.36**	<0.10	**0.32**	**0.34**	< 2.0	< 210	< 9.9	**0.39**	**0.44**	**0.40**	< 2.0	**0.34**	< 9.4	< 38	< 3.8	< 10	< 10	< 10	< 10	< 10
Fluorene	1,000	µg/L	**1.7**	**2.4**	**4.6**	**5.2**	**4.1**	**4.3**	**4.6**	**5**	**0.48**	**4.5**	**4.6**	< 2.0	< 210	< 9.9	**8.4**	**8.6**	6.7	**1.4 J**	**5.3**	**3.3 J**	< 38	**0.46 J**	< 10	< 10	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	**0.26**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.50	< 0.05	< 0.05	< 0.05	< 0.05	< 2.0	< 210	< 9.9	< 0.10	<0.11	<0.11	< 2.0	< 0.19	< 9.4	< 38	< 3.8	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	20	µg/L	< 0.5	**100**	**320**	**300**	< 0.5	**540**	**920**	**730**	**7.3**	**820**	**820**	**160**	**880**	**550**	**11 J**	**870**	**1,000**	**110**	**780**	**680**	**720**	**720**	**1,400**	**1,100**	**1,100**	**820**	**790**
Phenanthrene	10	µg/L	**0.71**	**1.6**	**3.2**	**4.0**	**3.4**	**3.7**	**4.5**	**4.6**	**0.36**	**4.0**	**4.1**	< 2.0	< 210	< 9.9	**6.1**	**6.3**	**5.7**	**1.5 J**	**4.5**	**3.4 J**	< 38	**4.1**	< 10	< 10	< 10	< 10	< 10
Pyrene	1,000	µg/L	**0.1**	**0.17**	**0.33**	**0.43**	**0.36**	**0.34**	< 0.5	**0.38**	0.050	**0.30**	**0.33**	< 2.0	< 210	< 9.9	**0.49**	**0.54**	**0.47**	< 2.0	**0.25**	< 9.4	< 38	< 3.8	<10	<10	< 10	< 10	< 10
Inorganic Compounds																												
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0063 J B**	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Barium	2	mg/L	**0.666**	**0.819**	**0.516**	**0.509**	**0.673**	**0.566**	**0.551**	**0.524**	**0.289**	**0.556**	**0.560**	**0.30**	**0.54**	**0.72**	**0.63**	**0.57**	**0.47**	**1.6**	**0.58**	**0.54**	**0.51**	**0.5**	**0.543**	**0.557**	**0.512**	**0.527**	**0.523**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.0040	**0.00031 J**	< 0.00020	< 0.00020	< 0.00020	**0.00046 J**	< 0.0040	< 0.0040	< 0.0040	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	**0.00064 J**	< 0.0050	< 0.005	< 0.005	**0.0064**	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	**0.0030 J B**	< 0.0012	< 0.0012	< 0.0012	**0.0055 J**	< 0.010	**0.0013 J**	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.010	< 0.020	**0.0067 J**	< 0.020	< 0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.011**	< 0.01	< 0.010	< 0.010	< 0.0050	**0.021**	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.0040	**0.0034 J**	< 0.0050	**0.0025 J**	< 0.0050	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04	< 0.04	< 0.0023	< 0.0023	< 0.0023	< 0.0023	**0.0034 J**	< 0.040	< 0.040	< 0.040	< 0.04	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.0010	< 0.00025	**0.00026 J**	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 1.00	< 1.00	< 1	< 1	< 1
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	**0.0040 J**	< 0.0024	< 0.0024	< 0.0024	**0.0039 J**	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010
Zinc	2	mg/L	< 0.02	< 0.02	**0.03**	< 0.02	**0.0285**	**0.0636**	< 0.02	< 0.02	< 0.02	**0.0203**	< 0.02	< 0.020	< 0.020	**0.022**	**0.016 J**	< 0.0087	**0.014 J**	**0.024**	<0.020	**0.076**	**0.046**	< 0.02	**0.118**	**0.211**	**0.0633**	< 0.02	< 0.02

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318	MW-318
		Sample Date	7/12/2006	7/12/2006 DUP	2/7/2006	1/11/2006	1/11/2006	7/19/2005	1/17/2005	7/14/2004	1/20/2004	7/15/2003	1/20/2003	7/15/2002	1/21/2002	1/21/2002 DUP	7/17/2001	1/17/2001	1/17/2001 DUP
			Pre-Extraction																
Volatile Organic Compounds																			
Acetone	4,000	µg/L	50 R	50 R	--	1,200 U	1,200 U	500 U	25 U	2,500 U	2,500 U	1,300 U	620 U	620 U	620 U	620 U	620 U	620 UJ	25 U
Benzene	5	µg/L	**18**	**19**	--	**3,800**	**3,800**	**4,100**	**2,700 D**	**4,400**	**4,000**	**4,300**	**4,200**	**4,400**	**3,600**	**3,600**	**4,100**	**3,100**	**2,500 D**
Carbon Disulfide	4,000	µg/L	5 U	5 U	--	120 U	120 U	20 U	1.0 U	100 U	100 U	50 U	25 U	25 U	25 U	25 U	25 U	25 U	1.0 U
Ethylbenzene	700	µg/L	5 U	5 U	--	**730**	**720**	**800**	**680 D**	**800**	**810**	**960**	**960**	**1,100**	**650**	**630**	**880**	**710**	**390 E**
Methylene Chloride	5	µg/L	5 U	5 U	77 U	**210**	**200**	100 U	5.0 U	500 U	500 U	250 U	120 U	120 U	120 U	120 U	120 U	120 U	5.0 U
Toluene	1,000	µg/L	5 U	5 U	--	120 U	120 U	20 U	**3.5**	100 U	100 U	50 U	**17 J**	25 U	25 U	25 U	25 U	25 U	**3**
Trichloroethylene	5	µg/L	5 U	5 U	--	120 U	120 U	20 U	1.0 U	100 U	100 U	50 U	25 U	25 U	25 U	25 U	25 U	25 U	1.0 U
Xylenes, total	2,000	µg/L	5 U	5 U	--	250 U	250 U	**77**	**64 D**	200 U	200 U	100 U	**96 B**	**100**	**61**	**62**	**110**	**76**	**80**
Semivolatile Organic Compounds																			
2-Methylnaphthalene	*	µg/L	--	--	--	**76**	**72**	**72**	**59**	**76**	**91**	**86**	**95**	**100**	**70**	**54 J**	**85**	**79**	**0.076**
Acenaphthene	2,000	µg/L	10 U	10 U	--	**47**	**45**	**51**	**37**	**52**	**55**	**54**	**58**	**57**	**52**	**40 J**	**51**	**54**	**0.05**
Acenaphthylene	10	µg/L	10 U	10 U	--	6.7 U	5.0 U	8.0 U	8.0 U	20 U	0.2 U	10 U	10 U	10 U	50 U	100 U	50 U	10 U	10 U
Anthracene	10	µg/L	10 U	10 U	--	6.7 U	5.0 U	8.0 U	8.0 U	20 U	**0.97**	10 U	**0.86 J**	**0.84 J**	50 U	100 U	50 U	**0.74 J**	**0.72 J**
Benz(a)anthracene	0.1	µg/L	0.05 U	0.05 U	--	6.7 U	5.0 U	8.0 U	8.0 U	20 U	0.2 U	10 U	10 U	10 U	50 U	100 U	50 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	0.05 U	0.05 U	--	6.7 U	5.0 U	8.0 U	8.0 U	20 U	0.2 U	10 U	10 U	10 U	50 U	100 U	50 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	0.1 U	0.1 U	--	6.7 U	5.0 U	8.0 U	8.0 U	20 U	0.2 U	10 U	10 U	10 U	50 U	100 U	50 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	10 U	10 U	--	6.7 U	5.0 U	8.0 U	8.0 U	20 U	0.2 U	10 U	10 U	10 U	50 U	100 U	50 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	10 U	10 U	--	6.7 U	5.0 U	8.0 U	8.0 U	20 U	0.2 U	10 U	10 U	10 U	50 U	100 U	50 U	10 U	10 U
Chrysene	0.2	µg/L	0.05 U	0.05 U	--	6.7 U	5.0 U	8.0 U	8.0 U	20 U	0.2 U	10 U	10 U	10 U	50 U	100 U	50 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	0.1 U	0.1 U	--	6.7 U	5.0 U	8.0 U	8.0 U	20 U	0.2 U	10 U	10 U	10 U	50 U	100 U	50 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	33 U	5.0 U	8.0 U	8.0 U	20 U	**2.4**	10 U	**3.1 J**	**2.9 J**	**2.7 J**	100 U	**2.5 J**	**3.3 J**	**3.0 J**
Fluoranthene	1,000	µg/L	10 U	10 U	--	6.7 U	5.0 U	8.0 U	8.0 U	20 U	**0.44**	10 U	**0.46 J**	**0.42 J**	50 U	100 U	50 U	10 U	10 U
Fluorene	1,000	µg/L	10 U	10 U	--	6.7 U	**5.7**	8.0 U	8.0 U	20 U	**7.5**	10 U	**7.7 J**	**8.3 J**	**5.5 J**	**11 J**	**6.0 J**	**7.6 J**	**7.1 J**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	0.05 U	0.05 U	--	6.7 U	5.0 U	8.0 U	8.0 U	20 U	0.2 U	10 U	10 U	10 U	50 U	100 U	50 U	10 U	10 U
Naphthalene	20	µg/L	10 U	10 U	--	**860**	**790**	**810**	**670**	**950**	**980**	**1,100**	**1,000 D**	**920 D**	**950**	**740**	**1,100 D**	**950 D**	**880 D**
Phenanthrene	10	µg/L	10 U	10 U	--	6.7 U	**5.1**	8.0 U	8.0 U	20 U	**7.1**	10 U	**7.1 J**	**6.8 J**	**6.3 J**	**5.1 J**	**5.0 J**	**6.3 J**	**6.0 J**
Pyrene	1,000	µg/L	10 U	10 U	--	6.7 U	5.0 U	8.0 U	8.0 U	20 U	**0.46**	0.01 UJ	10 U	10 U	50 U	100 U	50 U	10 U	10 U
Inorganic Compounds																			
Aluminum (fume or dust)	*	mg/L	--	--	--	**0.541**	0.2 U	**0.714**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.035 B**	0.2 U	0.2 U	**0.057 BN**	0.2 U	**0.18 B**
Antimony	0.01	mg/L	0.02 U	0.02 U	--	0.01 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	0.05 U	0.05 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.149**	**0.143**	--	**0.388**	**0.386**	**0.397**	**0.38**	**0.4**	**0.39**	**0.36**	**0.36**	**0.37**	**0.36**	**0.35**	**0.35**	**0.36**	**0.36**
Beryllium	0.004	mg/L	0.01 U	0.01 U	--	0.005 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	**0.00059 B**
Cadmium	0.005	mg/L	0.005 U	0.005 U	--	0.002 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	**43.2**	**41.5**	**47.9**	**40**	**41**	**42**	**41**	**38**	**39**	**38**	**37**	**37**	**36**	**37**
Chromium	0.1	mg/L	0.01 U	0.01 U	--	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	--	--	--	0.007 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	**0.0016 B**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Copper	1.3	mg/L	0.01 U	0.01 U	--	0.025 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0017 B**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Cyanide	0.2	mg/L	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron	*	mg/L	--	--	--	**0.828**	**0.802**	**0.926**	**0.75**	**0.79**	**0.77**	**0.77**	**0.7**	**0.74 N**	**0.7**	**0.66**	**0.74**	**0.74**	**0.72**
Lead	0.015	mg/L	0.01 U	0.01 U	--	0.003 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0030 U	**0.0023 B**
Magnesium	*	mg/L	--	--	--	**24**	**23.8**	**26**	**23**	**23**	**24**	**23**	**22**	**22**	**22**	**21**	**22**	**21**	**21**
Manganese	*	mg/L	--	--	--	**0.677**	**0.675**	**0.675**	**0.64**	**0.65**	**0.65**	**0.67**	**0.58**	**0.6**	**0.58**	**0.57**	**0.57**	**0.58**	**0.59**
Mercury	0.002	mg/L	0.0002 U	0.0002 U	--	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	**0.00014 B**	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.00020 U
Nickel	0.1	mg/L	0.02 U	0.02 U	--	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 UJ	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	--	--	--	5 U	5 U	**4.37**	**3.8**	**3.9**	**3.7**	**3.7**	**3.3**	**3.5**	**3.4**	**3.4**	**3.4**	**3.6**	**3.6**
Selenium	0.05	mg/L	0.02 U	0.02 U	--	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0047 B**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	**16.2**	**16.1**	**18**	**15**	**16**	**16**	**19**	**15**	**15**	**14**	**14**	**15**	**15**	**15**
Thallium	0.002	mg/L	0.001 U	0.001 U	--	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 UWN	0.002 UWN	0.002 U	0.002 U	0.002 UWN	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	0.01 U	0.01 U	--	0.007 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	**0.596**	**0.581**	--	0.02 U	0.02 U	**0.0308 J**	**0.028**	**0.026**	0.02 U	**0.03**	**0.02**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
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RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319
		Sample Date	1/25/2018	7/27/2017	1/27/2017	7/20/2016	1/21/2016	7/28/2015	1/14/2015	7/14/2014	1/7/2014	7/9/2013	1/8/2013	7/23/2012	1/16/2012	7/5/2011	1/17/2011	7/13/2011	1/5/2010	7/22/2009	01/14/2009	07/16/2008	1/9/2008	7/11/2007	2/15/2007
		Unit	Post-Extraction						During Extraction																
Volatile Organic Compounds																									
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	< 100	< 50	< 50	< 50
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	< 0.25	< 0.25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	**3.2 JB**	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Semivolatile Organic Compounds																									
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.19	< 0.096	< 0.11	< 0.10	< 0.098	< 0.19	< 0.20	< 0.19	< 0.21	< 0.19	< 10	< 10	< 10
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.19	< 0.096	< 0.11	< 0.10	< 0.098	< 0.19	< 0.20	< 0.19	< 0.21	< 0.19	< 10	< 10	< 10
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.096	< 0.11	< 0.10	< 0.098	< 0.19	< 0.20	< 0.19	< 0.21	< 0.19	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.075**	< 0.05	< 0.19	< 0.096	< 0.11	< 0.10	< 0.098	< 0.19	< 0.20	< 0.19	< 0.21	< 0.19	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.25**	< 0.05	< 0.19	< 0.096	< 0.11	< 0.10	< 0.098	< 0.19	< 0.20	< 0.19	< 0.21	< 0.19	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	**0.16**	< 0.10	< 0.19	< 0.096	< 0.11	< 0.10	< 0.098	< 0.19	< 0.20	< 0.19	< 0.21	< 0.19	< 0.10	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	**0.33**	< 0.10	< 0.19	< 0.096	< 0.11	< 0.10	< 0.098	< 0.19	< 0.20	< 0.19	< 0.21	< 0.19	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.22**	< 0.05	< 0.19	< 0.096	< 0.11	**0.11 J**	< 0.098	< 0.19	< 0.20	< 0.19	< 0.21	< 0.19	< 10	< 10	< 10
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.19**	< 0.05	< 0.19	< 0.043	< 0.048	**0.065 J**	< 0.044	< 0.19	< 0.20	< 0.19	< 0.21	< 0.19	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	**0.27**	< 0.10	< 0.19	< 0.096	< 0.11	< 0.10	< 0.098	< 0.19	< 0.20	< 0.19	< 0.21	< 0.19	**0.14**	< 0.1	< 0.1
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	**0.1**	< 0.10	< 0.19	< 0.096	< 0.11	< 0.10	< 0.098	< 0.19	< 0.20	< 0.19	< 0.21	< 0.19	< 10	< 10	< 10
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.096	< 0.11	< 0.10	< 0.098	< 0.19	< 0.20	< 0.19	< 0.21	< 0.19	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.29**	< 0.05	< 0.19	< 0.096	< 0.11	< 0.10	< 0.098	< 0.19	< 0.20	< 0.19	< 0.21	< 0.19	**0.15**	< 0.05	< 0.05
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.19	< 0.096	< 0.11	< 0.10	11 J	< 0.19	< 0.20	< 0.19	**0.033 J**	**0.05 J**	< 10	< 10	< 10
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.096	< 0.11	< 0.10	< 0.098	< 0.19	< 0.20	< 0.19	< 0.21	< 0.19	< 10	< 10	< 10
Pyrene	1,000	µg/L	< 0.05	< 0.05	**3.3**	< 0.05	< 0.05	< 0.05	< 0.05	**0.056**	**0.085**	< 0.05	< 0.19	< 0.096	< 0.11	< 0.10	< 0.098	< 0.19	< 0.20	< 0.19	< 0.21	< 0.19	< 10	< 10	< 10
Inorganic Compounds																									
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.05	< 0.05	< 0.05
Barium	2	mg/L	**0.835**	**0.584**	**0.576**	**0.669**	**0.838**	**0.777**	**0.642**	**0.132**	**0.692**	**0.668**	**0.93**	**0.73**	**0.28**	**0.92**	**0.89**	**0.94**	**0.82**	**0.67**	**0.38**	**0.69**	**0.820**	**0.704**	**0.743**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.00020	< 0.00020	< 0.00020	**0.00020 J**	**0.00031 J**	< 0.0040	< 0.0040	< 0.0040	< 0.004	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.020	< 0.0012	< 0.0012	< 0.0012	**0.0028 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.020	< 0.0019	< 0.0019	< 0.0019	< 0.0019	**0.0038 J**	< 0.020	< 0.020	**0.0029 J**	< 0.02	< 0.01	< 0.01	< 0.01
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.0050	< 0.0050	**0.027**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.0040	**0.0043 J**	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	**0.0036 J**	< 0.005	< 0.01	< 0.01	< 0.01
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.040	**0.0023 J**	< 0.0023	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.04	< 0.02	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 1.00	< 1.00	< 1
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.0087	**0.0094 J**	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319	MW-319
		Sample Date	7/13/2006	1/12/2006	7/18/2005	1/17/2005	7/13/2004	1/20/2004	7/15/2003	1/21/2003	7/11/2002	1/17/2002	7/16/2001	7/01 DUP	1/16/2001
		Unit	Pre-Extraction												
Volatile Organic Compounds															
Acetone	4,000	µg/L	50 U	10 U	25 U	25 U	25 U	25 U	25 U	**15 J**	25 U	25 U	25 U	25 U	25 UJ
Benzene	5	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.12 J**	1.0 U	1.0 U	1.0 U	1.0 U	**0.33 J**
Carbon Disulfide	4,000	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	µg/L	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.35 J**	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	700	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.14 J**	1.0 U	1.0 U	1.0 U	1.0 U	**0.29 J**
Toluene	1,000	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	5	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.49 J**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds															
2-Methylnaphthalene	*	µg/L	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds															
Aluminum (fume or dust)	*	mg/L	--	**1.72**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.071 B**	**0.2**	**0.05 B**	**0.057 B**	**0.031 J**
Antimony	0.01	mg/L	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0058 B**	0.02 U	**0.0065 J**
Arsenic	0.05	mg/L	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0037 B**	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.736**	**0.642**	**0.603**	**0.61**	**0.6**	**0.6**	**0.52**	**0.6**	**0.55**	**0.67**	**0.62**	**0.62**	**0.68**
Beryllium	0.004	mg/L	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	**0.00072 B**	0.004 U	0.004 U	0.00073 U
Cadmium	0.005	mg/L	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	**36.5**	**29.5**	**28**	**28**	**29**	**31**	**28**	**28**	**33**	**30**	**30**	**34**
Chromium	0.1	mg/L	0.01 U	0.005 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	**0.003 B**	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	--	0.007 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	**0.0047 B**	**0.0042 B**	**0.0058 B**	**0.0053 B**	**0.0048 B**	**0.0058 J**
Copper	1.3	mg/L	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0019 B**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Cyanide	0.2	mg/L	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron	*	mg/L	--	**4.23**	**4.03**	**4.1**	**3.8**	**4.3**	**3.8**	**4.3**	**3.5**	**5.3**	**4.4**	**4.3**	**4.7**
Lead	0.015	mg/L	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0025 U
Magnesium	*	mg/L	--	**16.2**	**13.2**	**13**	**13**	**13**	**12**	**14**	**11**	**16**	**14**	**14**	**15**
Manganese	*	mg/L	--	**1.11**	**1.08**	**1.1**	**1.1**	**1.2**	**1.1**	**1.1**	**0.94**	**1.3 N**	**1.1**	**1.1**	**1.2**
Mercury	0.002	mg/L	0.0002 U	0.0002 UJ	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 UJ	0.04 U	0.04 U	**0.0052 B**	0.04 U	0.04 U	**0.0055 J**
Potassium	*	mg/L	--	5 U	**3.68**	**3.4**	**3.4**	**3.4**	**3.2**	**3.1**	**3.5**	**3.6 N**	**3.7**	**3.6**	**4.3**
Selenium	0.05	mg/L	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	**14.9**	**14.8**	**13**	**14**	**13**	**14**	**14**	**14**	**14**	**15**	**14**	**15**
Thallium	0.002	mg/L	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 UW	0.002 UWN	0.002 U	0.002 U	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.04**	**0.04**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
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Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320
		Sample Date	1/25/2018	7/27/2017	1/27/2017	7/28/2016	1/21/2016	7/27/2015	1/12/2015	7/14/2014	1/6/2014	7/9/2013	1/8/2013	7/23/2012	1/16/2012	7/5/2011	1/17/2011	7/13/2010	1/5/2010	7/22/2009	01/14/2009	07/16/2008	1/9/2008	7/11/2007	2/14/2007
		Unit	Post-Extraction						During Extraction															
Volatile Organic Compounds																								
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	< 100	< 50	< 50	< 50
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	< 0.25	< 0.25	< 5.0	< 5.0	< 5.0	< 5.0	**0.54 J**	< 5.0	< 5	< 5
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	**0.45 J**	< 5.0	< 5	< 5
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	**0.56 J**	< 5.0	< 5.0	< 5	< 5
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Semivolatile Organic Compounds																								
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.20	< 0.095	< 0.11	< 0.11	< 0.11	< 0.20	< 0.19	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10
Acenaphthylene	10	µg/L	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 0.20	< 0.095	< 0.11	< 0.11	< 0.11	< 0.20	< 0.19	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.095	< 0.11	< 0.11	< 0.11	< 0.20	< 0.19	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.095	**0.12 J**	< 0.11	< 0.11	< 0.20	< 0.19	< 0.19	< 0.20	< 0.19	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.053**	< 0.05	< 0.20	< 0.095	**0.18 J**	< 0.11	< 0.11	< 0.20	< 0.19	< 0.19	< 0.20	< 0.19	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.095	< 0.11	< 0.11	**0.13 J**	**0.10 J***	< 0.19	< 0.19	< 0.20	< 0.19	< 0.10	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	**0.12**	< 0.10	< 0.20	< 0.095	**0.15 J**	< 0.11	< 0.11	< 0.20	< 0.19	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.066**	< 0.05	< 0.20	< 0.095	**0.38**	< 0.11	**0.13 J**	< 0.20	< 0.19	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.051**	< 0.20	< 0.043	**0.23 B**	< 0.048	**0.086 J**	**0.12 J**	< 0.19	< 0.19	< 0.20	< 0.19	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	**0.13**	< 0.10	< 0.20	< 0.095	< 0.11	< 0.11	< 0.11	< 0.20	< 0.19	< 0.19	< 0.20	< 0.19	< 0.10	< 0.1	< 0.1
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	**0.12**	< 0.20	< 0.095	**0.43**	< 0.11	**0.17 J**	**0.22**	< 0.19	**0.36**	**0.022 J**	< 0.19	< 10	< 10	< 10
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.095	< 0.11	< 0.11	< 0.11	< 0.20	< 0.19	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.090**	< 0.05	< 0.20	< 0.095	**0.15 J**	< 0.11	< 0.11	< 0.20	< 0.19	< 0.19	< 0.20	< 0.19	< 0.05	< 0.05	< 0.05
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**13**	< 0.50	< 0.50	< 0.50	< 0.20	< 0.095	< 0.11	**0.11 J**	11 J	< 0.20	< 0.19	< 0.19	**0.052 J**	0.33	< 10	< 10	< 10
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.095	**0.11 J**	< 0.11	< 0.11	< 0.20	< 0.19	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10
Pyrene	1,000	µg/L	< 0.05	< 0.05	**0.051**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.081**	< 0.20	< 0.095	**0.30**	< 0.11	**0.14 J**	**0.17 J**	< 0.19	**0.26**	< 0.20	< 0.19	< 10	< 10	< 10
Inorganic Compounds																								
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.05	< 0.05	< 0.05
Barium	2	mg/L	**0.0136**	**0.249**	**0.238**	**0.25**	**0.281**	**0.267**	**0.0287**	**0.268**	**0.264**	**0.267**	**0.096**	**0.26**	**0.29**	**0.076**	**0.25**	**0.097**	**0.097**	**0.27**	**0.22**	**0.27**	**0.284**	**0.240**	**0.278**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.004	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.0012	< 0.0012	< 0.0012	**0.0013 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.020	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.01	< 0.01	< 0.01
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.0050	< 0.0050	**0.013**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.005	< 0.01	< 0.01	< 0.01
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.040	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	**0.0018 J**	**0.0018 J**	< 0.02	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 1.00	< 1.00	< 1
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.0087	< 0.0087	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320	MW-320
		Sample Date	7/13/2006	1/11/2006	7/20/2005	1/18/2005	7/13/2004	1/20/2004	7/15/2003	1/21/2003	7/11/2002	1/18/2002	7/16/2001	1/17/2001
		Unit	Pre-Extraction											
Volatile Organic Compounds														
Acetone	4,000	µg/L	50 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 UJ
Benzene	5	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	4,000	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	µg/L	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	5	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds														
2-Methylnaphthalene	*	µg/L	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds														
Aluminum (fume or dust)	*	mg/L	--	**0.626**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.034 B**	**0.031 J**
Antimony	0.01	mg/L	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.273**	**0.237**	**0.23**	**0.25**	**0.26**	**0.25**	**0.23**	**0.18**	**0.26**	**0.26**	**0.24**	**0.25**
Beryllium	0.004	mg/L	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	**19.9**	**19.7**	**19**	**19**	**19**	**18**	**22**	**19**	**19**	**18**	**19**
Chromium	0.1	mg/L	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	**0.0015 B**	**0.0019 B**	**0.0017 J**
Copper	1.3	mg/L	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0018 B**	0.02 U	**0.0013 B**	0.02 U	0.02 U
Cyanide	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.1 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron	*	mg/L	--	**1.71**	**1.78**	**1.7**	**1.7**	**1.8**	**1.7**	**0.097**	**1.8**	**1.8**	**1.7**	**1.8**
Lead	0.015	mg/L	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.0024 U
Magnesium	*	mg/L	--	**10.8**	**11.3**	**11**	**11**	**11**	**11**	**11**	**11**	**11**	**11**	**11**
Manganese	*	mg/L	--	**1.15**	**1.1**	**1.2**	**1.2**	**1.2**	**1.2**	**0.0094 B**	**1.2**	**1.1**	**1.1**	**1.2**
Mercury	0.002	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 UJ	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	--	5 U	**2.62**	**2.8**	**2.8**	**2.8**	**2.6**	**3.6**	**2.8**	**2.7**	**2.6**	**2.9**
Selenium	0.05	mg/L	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0043 UJ
Sodium	*	mg/L	--	**9.84**	**10.8**	**9.7**	**10**	**9.8**	**11**	**11**	**10**	**10**	**9.8**	**9.9**
Thallium	0.002	mg/L	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 UW	0.002 UN	0.002 UW	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.03**	**0.019 B**	0.02 U	0.02 U	0.02 U	0.02 U

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321
		Sample Date	7/29/2015	1/13/2015	7/14/2014	1/8/2014	7/10/2013	7/10/2013 DUP	1/9/2013	7/25/2012	1/24/2012	7/6/2011	7/6/2011 DUP	1/19/2011	7/15/2010	1/7/2010	7/23/2009	01/21/2009	07/18/2008	1/9/2008	7/10/2007	2/14/2007
		Unit	Post-Extraction	During Extraction																	
Volatile Organic Compounds																					
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 25	< 25	< 120	< 2500	<4000	< 1000	< 500	< 2000	< 50	< 50	< 50
Benzene	5	µg/L	**2300**	< 5.0	< 5.0	< 5.0	**330**	**360**	**5.0**	< 5.0	**12**	**500**	**650**	**2,900**	**3,300**	**4,000**	**2,600**	**630**	**2,200**	**2,400**	**2,600**	**3,700**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**0.67 J**	< 3.0	< 3.0	< 15	< 120	<200	< 50	< 25	< 100	< 5.0	< 5	< 5
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**1.6 J**	**0.82 J**	**1.2 J**	**100 J**	210	**430**	**200**	**37**	**150**	**160**	**120**	**280**
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 5.0	< 25	< 120	<200	< 50	< 25	< 100	< 5.0	< 5	< 5
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**0.40 J**	< 1.7	< 1.7	**24 J**	< 120	<200	< 50	< 25	< 100	< 5.0	< 5	< 5
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.65	< 0.65	< 3.2	< 120	<200	< 50	< 25	< 100	< 5.0	< 5	< 5
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**0.44 J**	**2.1 J**	**1.9 J**	**8.8 J**	**18 J**	<200	< 50	**10 J**	**27 J**	**58**	**52**	**100**
Semivolatile Organic Compounds																						
Acenaphthene	2,000	µg/L	< 50	< 0.5	**2.1**	< 0.50	**13**	**12**	**0.19**	**0.29**	**43 D**	**12**	**24**	**24**	**40**	**30**	**21**	**3.4**	**13**	**32**	**37**	**27**
Acenaphthylene	10	µg/L	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 1.0	**0.82**	**0.20**	**1.7**	**0.42**	< 1.0	**0.19 J**	< 19	**1.0**	< 0.94	**0.35**	**0.71**	< 10	< 10	< 10
Anthracene	10	µg/L	**0.21**	< 0.05	**0.13**	< 0.05	**0.26**	**0.26**	< 0.19	< 0.19	**0.66**	**0.23**	< 1.0	**0.29**	< 19	**0.59**	< 0.94	**0.068 J**	**1.7**	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	< 0.095	< 0.11	< 1.0	< 0.11	< 19	<0.20	< 0.94	< 0.21	< 0.19	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	< 0.095	< 0.11	< 1.0	< 0.11	< 19	<0.20	< 0.94	< 0.21	< 0.19	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.095	< 0.11	< 1.0	< 0.11	< 19	<0.20	< 0.94	< 0.21	< 0.19	< 0.10	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.095	< 0.11	< 1.0	< 0.11	< 19	<0.20	< 0.94	< 0.21	< 0.19	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	< 0.095	< 0.11	< 1.0	< 0.11	< 19	<0.20	< 0.94	< 0.21	< 0.19	< 10	< 10	< 10
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	< 0.043	< 0.048	< 0.45	**0.059 J**	< 19	<0.20	< 0.94	< 0.21	< 0.19	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.095	< 0.11	< 1.0	< 0.11	< 19	<0.20	< 0.94	< 0.21	< 0.19	< 0.10	< 0.1	< 0.1
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.10	< 0.10	**0.12**	**0.11**	< 0.19	< 0.19	**0.28**	**0.12 J**	< 1.0	**0.12 J**	< 19	0.2	< 0.94	0.037 J	**0.098**	< 10	< 10	< 10
Fluorene	1,000	µg/L	**1.9**	< 0.10	**0.48**	< 0.10	**2.2**	**2.1**	**0.94**	**0.29**	**7.2**	**2.9**	**5.2**	**3.4**	< 19	**6.5**	**3.5**	**0.75**	**2.1**	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	< 0.095	< 0.11	< 1.0	< 0.11	< 19	< 0.20	< 0.94	< 0.21	< 0.19	< 0.05	< 0.05	< 0.05
Naphthalene	20	µg/L	**180**	**5.7**	**3.3**	< 0.50	**240**	**150**	**13**	**3.9**	**1,100 D**	**250**	**470**	**560**	**1,000**	**11 J**	**610**	**66**	**3.0**	**410**	**350**	**570**
Phenanthrene	10	µg/L	**1.4**	< 0.05	**0.7**	< 0.05	**1.8**	**1.7**	**1.1**	**0.48**	**5.8**	**1.7**	**3.1**	**2.2**	< 19	**4.3**	**2.2**	**0.46**	**1.7**	< 10	< 10	< 10
Pyrene	1,000	µg/L	**0.068**	< 0.05	**0.11**	< 0.05	**0.096**	**0.100**	< 0.19	< 0.19	**0.29**	**0.14 J**	< 1.0	**0.14 J**	< 19	<0.20	< 0.94	**0.043 J**	**0.11 J**	<10	< 10	< 10
Inorganic Compounds																						
Antimony	0.01	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.05	< 0.05	< 0.05
Barium	2	mg/L	**0.28**	**0.0606**	**0.0573**	**0.0662**	**0.244**	**0.237**	**0.14**	**0.094**	**0.30**	**0.30**	**0.27**	**0.30**	**0.31**	**0.30**	**0.32**	**0.26**	**0.31**	**0.321**	**0.294**	**0.314**
Beryllium	0.004	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.00020	**0.00026 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.004	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Copper	1.3	mg/L	**0.0225**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.0019	< 0.0019	< 0.0019	**0.0030 JB**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.01	< 0.01	< 0.01
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0050	**0.013**	**0.016**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.005	< 0.01	< 0.01	< 0.01
Mercury	0.002	mg/L	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04	< 0.04	< 0.0023	**0.0029 J**	**0.0025 J**	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	**0.0017 J**	< 0.02	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 1.00	< 1.00	< 1
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.0087	< 0.0087	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02

Notes:
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ISCO - *in-situ* chemical oxidation
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Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321	MW-321
		Sample Date	7/11/2006	7/11/2006 DUP	1/14/2006	1/14/2006 DUP	7/21/2005	1/21/2005	7/16/2004	1/23/2004	1/23/2004 DUP	7/17/2003	7/17/2003 DUP	1/22/2003	1/22/2003 DUP	7/15/2002	1/22/2002	7/18/2001	1/22/2001
		Unit	Pre-Extraction																
Volatile Organic Compounds																			
Acetone	4,000	µg/L	50 R	50 R	2,500 U	2,500 U	500 U	1,200 U	1,200 U	1,200 U	1,200 U	1,300 U	1,300 U	1,200 U	1,200 U	250 U	250 U	**250 R**	250 U
Benzene	5	µg/L	**4,500**	**5,100**	**6,200**	**6,100**	**5,300**	**6,500**	**6,900**	**6,500**	**6,900**	**6,500**	**6,400**	**5,700**	**5,700**	**4,800 D**	**6,000 D**	**7,900 D**	**1,800**
Carbon Disulfide	4,000	µg/L	5 U	5 U	250 U	250 U	20 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	10 U	10 U	10 U	10 U
Ethylbenzene	700	µg/L	**340**	**380**	**1,300**	**1,200**	**1,200**	**1,400**	**1,400**	**1,500**	**1,500**	**1,400**	**1,400**	**1,000**	**980**	**1,100**	**1,100**	**1,600**	**360**
Methylene Chloride	5	µg/L	5 U	5 U	250 U	250 U	100 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	50 U	50 U	50 U	50 U
Toluene	1,000	µg/L	5 U	5 U	250 U	250 U	20 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	**12**	**10**	**110**	**9.6 J**
Trichloroethylene	5	µg/L	5 U	5 U	250 U	250 U	20 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	10 U	10 U	10 U	10 U
Xylenes, total	2,000	µg/L	**110**	**110**	500 U	500 U	**260**	**260**	**290**	**360**	**370**	**550**	**560**	**490**	**500**	**560**	**610**	**890**	**290**
Semivolatile Organic Compounds																			
2-Methylnaphthalene	*	µg/L	--	--	**280**	**330**	**270**	**240**	**230**	**320**	**330**	**280**	**250**	**170 DJ**	**180 DJ**	**38**	**360**	**320**	**300**
Acenaphthene	2,000	µg/L	**63**	**57**	**130**	**130**	**98**	**84**	80 U	**50**	**85**	**110**	**99**	**88**	**90**	**8.2 J**	**120**	**120**	**110**
Acenaphthylene	10	µg/L	10 U	10 U	16 U	20 U	20 U	40 U	80 U	**0.34**	**0.58**	10 U	10 U	**1.3 J**	**1.2 J**	**3.4 J**	10 U	50 U	10 U
Anthracene	10	µg/L	10 U	10 U	16 U	20 U	20 U	40 U	80 U	**2.5**	**2.3**	10 U	10 U	**1.7 J**	**1.8 J**	10 U	10 U	**2.1 J**	**2.5 J**
Benz(a)anthracene	0.1	µg/L	0.05 U	0.05 U	16 U	20 U	20 U	40 U	80 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U
Benzo(a)pyrene	0.2	µg/L	0.05 U	0.05 U	16 U	20 U	20 U	40 U	80 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	0.1 U	0.1 U	16 U	20 U	20 U	40 U	80 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U
Benzo(g,h,i)perylene	10	µg/L	10 U	10 U	16 U	20 U	20 U	40 U	80 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U
Benzo(k)fluoranthene	10	µg/L	10 U	10 U	16 U	20 U	20 U	40 U	80 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U
Chrysene	0.2	µg/L	0.05 U	0.05 U	16 U	20 U	20 U	40 U	80 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	0.1 U	0.1 U	16 U	20 U	20 U	40 U	80 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U
Dibenzofuran	1	µg/L	--	--	80 U	100 U	20 U	40 U	80 U	**3.0**	**2.3**	10 U	10 U	**3.8 J**	**4.0 J**	**0.45 J**	**5.5 J**	**5.1 J**	**4.7 J**
Fluoranthene	1,000	µg/L	10 U	10 U	16 U	20 U	20 U	40 U	80 U	**0.96**	**0.89**	10 U	10 U	**0.78 J**	**0.85 J**	10 U	10 U	50 U	**0.97 J**
Fluorene	1,000	µg/L	**11**	10 U	**17**	20 U	20 U	40 U	80 U	**12**	**11**	**17**	**16**	**17**	**17**	**11 J**	**19 J**	**19 J**	**18**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	0.05 U	0.05 U	16 U	20 U	20 U	40 U	80 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U
Naphthalene	20	µg/L	**1,500 J**	**150 J**	**2,700**	**3,300**	**3,000**	**2,500**	**2,600**	**3,000**	**3,000**	**4,800**	**3,800**	**1,900 D**	**1,900 D**	**540 D**	**2,900 D**	**3,300D**	**4,000 D**
Phenanthrene	10	µg/L	10 U	10 U	**23**	**23**	20 U	40 U	80 U	**16**	**16**	**16**	**14**	**14**	**15**	**1.0 J**	**21 J**	**20 J**	**17**
Pyrene	1,000	µg/L	10 U	10 U	16 U	20 U	20 U	40 U	80 U	**0.99**	**0.92**	10 U	10 U	**0.82 J**	**0.72 J**	10 U	10 U	50 U	**0.94 J**
Inorganic Compounds																			
Aluminum (fume or dust)	*	mg/L	--	--	**0.293**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.22**	0.2 U	0.2 U	**0.031 BN**
Antimony	0.01	mg/L	0.02 U	0.02 U	0.01 U	0.01 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.325**	**0.309**	**0.288**	**0.281**	**0.283**	**0.27**	**0.27**	**0.26**	**0.24**	**0.25**	**0.25**	**0.26**	**0.26**	**0.31**	**0.24**	**0.23**	**0.25**
Beryllium	0.004	mg/L	0.01 U	0.01 U	0.005 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	0.005 U	0.005 U	0.002 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	**40.7**	**39**	**38.1**	**38**	**35**	**36**	**35**	**32**	**33**	**33**	**33**	**35**	**31**	**31**	**32**
Chromium	0.1	mg/L	0.01 U	0.01 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0049 B**	**0.0052 B**	**0.0066 B**	0.01 U	0.01 U	**0.0018 B**
Cobalt	*	mg/L	--	--	0.007 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Copper	1.3	mg/L	0.01 U	0.01 U	0.025 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0025 B**	**0.0021 B**	**0.0027 B**	**0.0012 B**	0.02 U	0.02 U
Cyanide	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron	*	mg/L	--	--	**0.529**	**0.523**	**0.526**	**0.49**	**0.43**	**0.46**	**0.45**	**0.41**	**0.37**	**0.4**	**0.43**	**0.72 N**	**0.43**	**0.41**	**0.45**
Lead	0.015	mg/L	0.01 U	0.01 U	0.003 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	**16.9**	**16.6**	**15.4**	**16**	**14**	**14**	**14**	**14**	**15**	**14**	**14**	**14**	**13**	**13**	**13**
Manganese	*	mg/L	--	--	**0.308**	**0.301**	**0.307**	**0.31**	**0.29**	**0.29**	**0.27**	**0.27**	**0.27**	**0.26**	**0.26**	**0.31**	**0.25**	**0.25**	**0.27**
Mercury	0.002	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 UJ	0.0002 UJ	**0.000097 B**	**0.00009 B**	0.0002 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	0.02 U	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	**0.0057 B**	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	--	--	5 U	5 U	**3.19**	**3.7**	**3.7**	**3.5**	**3.3**	**3.2**	**3.6**	**5.4**	**5.5**	**8.5**	**3**	**3.1**	**3.1**
Selenium	0.05	mg/L	0.02 U	0.02 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0049 B**	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	**16.7**	**16.2**	**17**	**15**	**15**	**15**	**15**	**15**	**16**	**15**	**15**	**15**	**15**	**14**	**14**
Thallium	0.002	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UWN	0.002 U	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	0.01 U	0.01 U	0.007 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.03**	**0.07**	**0.012 B**	**0.016 B**	0.02 U	0.02 U	0.02 U	0.02 U

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
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UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324
		Sample Date	7/29/2015	1/13/2015	7/14/2014	1/8/2014	7/10/2013	1/9/2013	7/25/2012	1/24/2012	7/5/2011	1/19/2011	7/15/2010	1/7/2010	7/29/2009	1/15/2009	7/18/2008	1/10/2008	7/10/2007	2/14/2007
		Unit	Post-Extraction	During Extraction																
Volatile Organic Compounds																				
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 50	< 5.0	< 5.0	< 2000	< 100	< 100	< 1000	< 100	< 50	< 50	< 50
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**20**	**1,200 J H**	< 0.25	**11**	**1,600**	**6,400 D**	< 5.0	**870**	**80**	**18**	**2,300**	**3,700**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 6.0	< 0.60	**2.4 J**	< 100	< 5.0	< 5.0	< 50	< 5.0	< 5.0	< 5	< 5
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**25 J**	< 0.11	**2.5 J**	**190**	**900**	< 5.0	**110**	**9.1**	< 5.0	**160**	**440**
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 1.0	< 1.0	< 100	< 5.0	< 5.0	< 50	< 5.0	< 5.0	< 5	< 5
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**7.4 J**	< 0.33	**1.2 J**	7.4 J	**52**	< 5.0	**4.4 JB**	**0.75 J**	< 5.0	**19**	**24**
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.3	< 0.13	< 0.13	< 100	< 5.0	< 5.0	< 50	< 5.0	< 5.0	< 5	< 5
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**29 J**	< 0.20	**0.44 J**	**25 J**	**150**	< 5.0	**14 J**	**2.1**	< 5.0	**49**	**140**
Semivolatile Organic Compounds																				
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.19	**0.35**	**0.24**	< 0.11	< 0.099	< 19	**49**	< 0.19 *	**3.5 J**	**0.4**	< 10	**21**	**36**
Acenaphthylene	10	µg/L	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 0.19	< 0.19	< 0.095	< 0.11	< 0.099	< 19	**0.96**	< 0.19	< 3.9	< 0.20	< 10	< 10	< 10
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	< 0.095	< 0.11	< 0.099	< 19	**1.2**	< 0.19	< 3.9	< 0.20	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	< 0.095	< 0.11	< 0.099	< 19	< 0.20	< 0.19	< 3.9	< 0.20	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	< 0.095	< 0.11	< 0.099	< 19	< 0.20	< 0.19	< 3.9	< 0.20	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.095	< 0.11	< 0.099	< 19	< 0.20	< 0.19	< 3.9	< 0.20	< 0.10	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.095	< 0.11	< 0.099	< 19	< 0.20	< 0.19	< 3.9	< 0.20	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	< 0.095	< 0.11	< 0.099	< 19	< 0.20	< 0.19	< 3.9	< 0.20	< 10	< 10	< 10
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	< 0.043	< 0.050	< 0.044	< 19	< 0.20	< 0.19	< 3.9	< 0.20	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.095	< 0.11	< 0.099	< 19	< 0.20	< 0.19	< 3.9	< 0.20	< 0.10	< 0.1	< 0.1
Fluoranthene	1,000	µg/L	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.095	< 0.11	< 0.099	< 19	**0.87**	< 0.19	< 3.9	< 0.20	< 10	< 10	< 10
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.095	< 0.11	< 0.099	< 19	**8.7**	< 0.19	**0.54 J**	**0.055**	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	< 0.095	< 0.11	< 0.099	< 19	< 0.20	< 0.19	< 3.9	< 0.20	< 0.05	< 0.05	< 0.05
Naphthalene	20	µg/L	**1.4**	**5.3**	**0.7**	**0.98**	< 0.50	**0.70**	**3.9**	**6.1**	< 0.11	**1.6**	**290**	**1,600**	< 0.19	**11 J**	**0.15**	< 10	**290**	**760**
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	**0.15 J**	< 0.11	< 0.099 *	< 19	**8.1**	< 0.19	**0.68 J**	**0.065**	< 10	< 10	< 10
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	< 0.095	< 0.11	< 0.099	< 19	**0.87**	< 0.19	< 3.9	**0.034**	< 10	< 10	< 10
Inorganic Compounds																				
Antimony	0.01	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.05	< 0.05	< 0.05
Barium	2	mg/L	**0.0572**	**0.0232**	**0.0657**	**0.0674**	**0.0693**	**0.061**	**0.089**	**0.081**	**0.079**	**0.078**	**0.072**	**0.21**	**0.066**	**0.082**	**0.076**	**0.0690**	**0.0849**	**0.181**
Beryllium	0.004	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00022 JB**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.004	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.0066**	**0.0073**	< 0.0050	< 0.0020	**0.0020 J**	**0.0020 J**	< 0.0050	< 0.0050	< 0.0050	**0.00069 J**	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0012	**0.0043 J**	**0.0013 J**	< 0.010	< 0.010	< 0.010	**0.0028 J**	< 0.01	< 0.01	< 0.01	< 0.01
Copper	1.3	mg/L	< 0.01	< 0.01	**0.0176**	**0.0161**	**0.0192**	< 0.02	< 0.02	**0.0040 J**	**0.0064 J**	**0.0098 JB**	< 0.020	< 0.020	< 0.020	**0.013 J**	**0.0097 J**	< 0.01	< 0.01	< 0.01
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0050	**0.0095 J**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	**0.0031 J**	< 0.01	< 0.01	< 0.01
Mercury	0.002	mg/L	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04	< 0.04	**0.0028 J**	**0.0029 J**	**0.0034 J**	< 0.040	< 0.040	< 0.040	**0.0088 J**	**0.0069 J**	< 0.02	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 1.00	< 1.00	< 1
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	**0.0052 J**	**0.0042 J**	< 0.01	< 0.01	< 0.01
Zinc	2	mg/L	< 0.02	**0.0205**	< 0.02	< 0.02	**0.0337**	< 0.020	< 0.020	< 0.0087	**0.0091 J**	< 0.0087	< 0.020	< 0.020	< 0.020	**0.033**	**0.018 J**	< 0.02	< 0.02	< 0.02

Notes:
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ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

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Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324	MW-324
		Sample Date	7/11/2006	1/14/2006	01/06 DUP	7/22/2005	1/19/2005	7/16/2004	1/23/2004	7/17/2003	1/22/2003	7/11/2002	07/02 DUP	1/23/2002	7/18/2001
		Unit	Pre-Extraction												
Volatile Organic Compounds															
Acetone	4,000	µg/L	50 U	5,000 U	5,000 U	830 U	2,500 U	2,500 U	2,500 U	630 U	5,000 U	5,000 U	5,000 U	5,000 U	**5,000 R**
Benzene	5	µg/L	**1,900**	**13,000**	**13,000**	**14,000**	**12,000**	**14,000**	**16,000**	**15,000**	**14,000**	**15,000**	**12,000**	**16,000**	**15,000**
Carbon Disulfide	4,000	µg/L	5 U	500 U	500 U	33 U	100 U	100 U	100 U	25 U	200 U	200 U	200 U	200 U	200 U
Ethylbenzene	700	µg/L	**89**	**2,000**	**2,100**	**2,100**	**2,500**	**2,500**	**2,600**	**2,500**	**2,400**	**2,500**	**2,500**	**2,800**	**2,700**
Methylene Chloride	5	µg/L	5 U	500 U	500 U	170 U	500 U	500 U	500 U	130 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U
Toluene	1,000	µg/L	**29**	500 U	500 U	**520**	**540**	**320**	**720**	**1,100**	**1,400**	**1,200**	**1,300**	**1,900**	**2,600**
Trichloroethylene	5	µg/L	5 U	500 U	500 U	33 U	100 U	100 U	100 U	25 U	200 U	200 U	200 U	200 U	200 U
Xylenes, total	2,000	µg/L	**90**	**1,000**	**1,100**	**1,500**	**1,600**	**1,500**	**1,800**	**1,700**	**1,800**	**1,700**	**1,800**	**2,300**	**2,400**
Semivolatile Organic Compounds															
2-Methylnaphthalene	*	µg/L	--	**430**	**490**	**390**	**320**	**290**	**390**	**370 J M**	**700**	**480**	**440**	**770**	**670**
Acenaphthene	2,000	µg/L	**20**	**180**	**180**	**120**	**110**	**110**	**110**	**120 J M**	**230**	**180**	**160**	**230**	**230**
Acenaphthylene	10	µg/L	10 U	20 U	20 U	20 U	100 U	80 U	**4.0**	**11**	**21 J**	**9.7 J**	**9.4 J**	100 U	**28 J**
Anthracene	10	µg/L	10 U	20 U	20 U	20 U	100 U	80 U	2.0 U	10 U	**4.8 J**	**4.9 J**	**4.6 J**	**4.5 J**	**3.8 J**
Benz(a)anthracene	0.1	µg/L	0.05 U	20 U	20 U	20 U	100 U	80 U	2.0 U	10 U	100 U	100 U	100 U	100 U	50 U
Benzo(a)pyrene	0.2	µg/L	0.05 U	20 U	20 U	20 U	100 U	80 U	2.0 U	10 U	100 U	100 U	100 U	100 U	50 U
Benzo(b)fluoranthene	0.2	µg/L	0.1 U	20 U	20 U	20 U	100 U	80 U	2.0 U	10 U	100 U	100 U	100 U	100 U	50 U
Benzo(g,h,i)perylene	10	µg/L	10 U	20 U	20 U	20 U	100 U	80 U	2.0 U	10 U	100 U	100 U	100 U	100 U	50 U
Benzo(k)fluoranthene	10	µg/L	10 U	20 U	20 U	20 U	100 U	80 U	2.0 U	10 U	100 U	100 U	100 U	100 U	50 U
Chrysene	0.2	µg/L	0.05 U	20 U	20 U	20 U	100 U	80 U	2.0 U	10 U	100 U	100 U	100 U	100 U	50 U
Dibenzo(a,h)anthracene	0.3	µg/L	0.1 U	20 U	20 U	20 U	100 U	80 U	2.0 U	10 U	100 U	100 U	100 U	100 U	50 U
Dibenzofuran	1	µg/L	--	20 U	100 U	20 U	100 U	80 U	2.0 U	10 U	**8.8 J**	**6.6 J**	**6.7 J**	**11 J**	**8.9 J**
Fluoranthene	1,000	µg/L	10 U	20 U	20 U	20 U	100 U	80 U	2.0 U	10 U	100 U	100 U	100 U	100 U	50 U
Fluorene	1,000	µg/L	10 U	**23**	**24**	20 U	100 U	80 U	**23**	**21**	**35 J**	**29 J**	**26 J**	**38 J**	**35 J**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	0.05 U	20 U	20 U	20 U	100 U	80 U	2.0 U	10 U	100 U	100 U	100 U	100 U	50 U
Naphthalene	20	µg/L	**170**	**4,400**	**4,300**	**3,500**	**3,700**	**3,600**	**4,600**	**4,400 J M**	**7,500 D**	**5,000 D**	**4,400 D**	**5,900 D**	**8,600 D**
Phenanthrene	10	µg/L	10 U	**27**	**28**	20 U	100 U	80 U	**22**	**18**	**36 J**	**26 J**	**26 J**	**41 J**	**34 J**
Pyrene	1,000	µg/L	10 U	20 U	20 U	20 U	100 U	80 U	2.0 U	10 U	100 U	100 U	100 U	100 U	50 U
Inorganic Compounds															
Aluminum (fume or dust)	*	mg/L	--	**0.303**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.058 B**
Antimony	0.01	mg/L	0.02 U	0.01 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.0682**	**0.243**	**0.239**	**0.237**	**0.24**	**0.23**	**0.21**	**0.21**	**0.22**	**0.24**	**0.24**	**0.22**	**0.22**
Beryllium	0.004	mg/L	0.01 U	0.005 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	0.005 U	0.002 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	**40.9**	**39.8**	**43.2**	**38**	**37**	**37**	**33**	**35**	**34**	**34**	**35**	**44**
Chromium	0.1	mg/L	0.01 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	--	0.007 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Copper	1.3	mg/L	0.01 U	0.025 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0015 B**	**0.00092 B**	0.02 U	**0.0017 B**	0.02 U
Cyanide	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	**0.11**	0.01 U	0.01 U	0.01 U
Iron	*	mg/L	--	**0.62**	**0.516**	**0.533**	**0.48**	**0.46**	**0.37**	**0.38**	**0.36**	**0.33**	**0.31**	**0.37**	**0.37**
Lead	0.015	mg/L	0.01 U	0.003 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.0019 B**	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	**13.8**	**13.6**	**14.1**	**13**	**12**	**11**	**11**	**11**	**11**	**11**	**11**	**10**
Manganese	*	mg/L	--	**0.33**	**0.324**	**0.333**	**0.34**	**0.32**	**0.29**	**0.28**	**0.28**	**0.29**	**0.29**	**0.26**	**0.23**
Mercury	0.002	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 UJ	**0.000095 B**	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	0.1	mg/L	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	--	5 U	5 U	**3.58**	**3.7**	**3.7**	**4.4**	**3.1**	**3.4**	**3.6**	**3.6**	**3.3**	**4.4**
Selenium	0.05	mg/L	0.02 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.006 B**	0.01 U
Sodium	*	mg/L	--	**16.3**	**16.1**	**17.9**	**15**	**15**	**18**	**15**	**15**	**17**	**17**	**15**	**16**
Thallium	0.002	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 UJ	0.002 U	0.002 UN	0.002 UN	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	0.01 U	0.007 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.02**	**0.019 B**	0.02 U	0.02 U	0.02 U	0.02 U

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325
		Sample Date	1/25/2018	7/26/2017	1/25/2017	7/28/2016	1/20/2016	7/28/2015	1/13/2015	7/14/2014	1/6/2014	7/9/2013	1/8/2013	7/23/2012	1/16/2012	7/5/2011	1/18/2011	7/13/2010	1/6/2010	7/21/2009	1/14/2009	7/17/2008	1/9/2008	7/11/2007	2/15/2007
		Unit	Post-Extraction						During Extraction																
Volatile Organic Compounds																									
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 100 U	< 100	< 100	< 100	**120**	< 50	< 50	< 50
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	< 0.25	**0.36 J**	< 5.0 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	**3,700**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 0.60	< 5.0 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 0.11	< 5.0 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	**440**
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33	< 0.33	**0.49 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	**24**
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 0.13	< 5.0 U	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 0.20	**0.31 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	**140**
Semivolatile Organic Compounds																									
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.19	< 0.096	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	**36**
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.19	< 0.096	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Anthracene	10	µg/L	< 0.05	< 0.05	**0.062**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.096	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.096	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.096	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.096	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.19	< 0.096	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.096	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.043	< 0.045	< 0.050	< 0.049	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.096	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	< 0.1	< 0.1
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.19	< 0.096	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Fluorene	1,000	µg/L	< 0.1	< 0.1	**0.15**	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.096	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.096	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.76**	< 0.5	< 0.50	< 0.50	< 0.50	< 0.19	< 0.096	< 0.10	< 0.11	11 J	< 0.19	< 0.19	< 0.19	**0.058 J**	< 0.19	< 10	< 10	**760**
Phenanthrene	10	µg/L	< 0.05	< 0.05	**0.085**	< 0.05	**0.06**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.096	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.096	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Inorganic Compounds																									
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.020	< 0.0046	**0.0047 J**	< 0.0046	**0.0047 J**	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.05	< 0.05	< 0.05
Barium	2	mg/L	**0.105**	**0.106**	**0.0948**	**0.0947**	**0.0994**	**0.0691**	**0.0553**	**0.0744**	**0.0326**	**0.0284**	**0.026**	**0.022**	**0.025**	**0.027**	**0.023**	**0.022**	**0.033**	**0.025**	**0.025**	**0.03**	**0.0413**	**0.0571**	**0.181**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.004	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.0122**	**0.009**	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	**0.00093 J**	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.020	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.020	< 0.020	< 0.020	**0.0023 J**	< 0.02	< 0.01	< 0.01	< 0.01
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.0050	< 0.0050	**0.0083 J**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	**0.0023 J**	< 0.01	< 0.01	< 0.01
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.040	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.04	< 0.02	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.01	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 1.00	< 1.00	< 1
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.010	**0.0029 J**	**0.0034 J**	**0.0027 J**	**0.0029 J**	**0.0027 J**	< 0.010	< 0.010	**0.0039 J**	**0.0034 J**	< 0.01	< 0.01	< 0.01
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	**0.0248**	**0.0299**	**0.127**	**0.0573**	< 0.02	< 0.02	< 0.02	< 0.020	< 0.0087	< 0.0087	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	**0.015 J**	< 0.02	< 0.02	< 0.02	< 0.02

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325	MW-325
		Sample Date	7/13/2006	1/12/2006	7/19/2005	1/17/2005	7/14/2004	1/21/2004	7/15/2003	1/21/2003	7/12/2002	1/18/2002	7/17/2001
		Unit	Pre-Extraction										
Volatile Organic Compounds													
Acetone	4,000	µg/L	50 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	5	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.3**	1.0 U	**0.13 J**
Carbon Disulfide	4,000	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1**	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.3 J**	1.0 U	1.0 U
Methylene Chloride	5	µg/L	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.35 J**	1.0 U	1.0 U
Trichloroethylene	5	µg/L	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds													
2-Methylnaphthalene	*	µg/L	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	**0.35 J**	10 U	10 U
Acenaphthylene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	10 U	0.2 U	0.2 U	**0.28**	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 UJ	10 U	10 U	10 U	10 U
Inorganic Compounds													
Aluminum (fume or dust)	*	mg/L	--	**0.817**	**0.978**	**0.25**	0.2 U	0.2 U	**2.7**	0.2 U	**0.2 B**	**2.1**	**30 N**
Antimony	0.01	mg/L	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.021**
Barium	2	mg/L	**0.134**	0.2 U	**0.102**	**0.09**	**0.097**	**0.091**	**0.12**	**0.042**	**0.072**	**0.12**	**0.38**
Beryllium	0.004	mg/L	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	**0.0042**
Cadmium	0.005	mg/L	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	**0.002 B**
Calcium metal	*	mg/L	--	**18.5**	**25.2**	**16**	**20**	**16**	**24**	**3.2**	**21**	**27**	**65**
Chromium	0.1	mg/L	0.01 U	0.005 UJ	0.01 U	0.01 U	0.01 U	0.01 U	**0.03**	0.01 U	**0.0061 B**	**0.17**	**0.23**
Cobalt	*	mg/L	--	0.007 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	**0.0036 B**	**0.058**
Copper	1.3	mg/L	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0018 B**	**0.0015 B**	**0.0073 B**	**0.059**
Cyanide	0.2	mg/L	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron	*	mg/L	--	**1.13**	**0.54**	**0.54**	**0.28**	**0.45**	**4.8**	**0.035 B**	**0.17**	**3.6**	**41**
Lead	0.015	mg/L	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.01**	0.005 U	0.005 U	**0.0039 B**	**0.063**
Magnesium	*	mg/L	--	**7.93**	**7.87**	**6.7**	**7**	**7.4**	**9.7**	**0.65**	**3.3**	**8.7**	**30**
Manganese	*	mg/L	--	**0.258**	**0.28**	**0.24**	**0.26**	**0.28**	**0.35**	**0.0016 B**	**0.057**	**0.25**	**0.97**
Mercury	0.002	mg/L	0.0002 U	0.0002 UJ	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	0.1	mg/L	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 UJ	0.04 U	**0.0049 B**	**0.11**	**0.18**
Potassium	*	mg/L	--	5 U	**3.16**	**4**	**3.5**	**2.9**	**4.2**	**8.4**	**8**	**6.2**	**15**
Selenium	0.05	mg/L	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0061 B**	0.01 U
Sodium	*	mg/L	--	**11.8**	**12.9**	**12**	**12**	**12**	**13**	**13**	**13**	**12**	**12**
Thallium	0.002	mg/L	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 UW	0.002 UWN	0.002 UW	0.002 UWN
Vanadium (fume or dust)	0.2	mg/L	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	**0.0025 B**	**0.0052 B**	**0.062**
Zinc	2	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.07**	**0.023**	0.02 U	**0.039**	**0.62**

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Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-500BR	MW-500BR	MW-500BR	MW-500BR	MW-500BR	MW-500BR	MW-500BR	MW-500BR	MW-500BR	MW-500BR	MW-500BR	MW-500BR	MW-500BR	MW-500BR	MW-500BR	MW-500BR	MW-500BR	MW-500BR	MW-500BR	MW-500BR	MW-500BR	MW-500BR	MW-500BR
		Sample Date	1/25/2018	7/27/2017	1/27/2017	7/28/2016	1/21/2016	7/29/2015	1/14/2015	7/16/2014	1/8/2014	7/9/2013	1/10/2013	7/26/2012	1/18/2012	7/6/2011	1/19/2011	7/13/2010	1/12/2010	7/23/2009	1/09 DUP	1/13/2009	7/17/2008	1/9/2008	7/10/2007
		Unit	Post-Extraction						During Extraction																
Volatile Organic Compounds																									
Acetone	4,000	µg/L	< 2500	< 2500	< 1000	< 50	< 50	< 5000	< 5000	< 5000	< 5,000	< 50	< 10,000	< 5,000	< 250	**330 J**	< 250	< 5000	< 5000	< 10000	< 5000	< 5000	< 500	< 50	< 50
Benzene	5	µg/L	**17000**	**6500**	**5600**	**3100**	**9300**	**6200**	**13,000**	**9,300**	**10,000**	**9,200**	**9,700**	**14,000**	**11,000**	**9,800**	**8,200**	**7,000**	**5,200**	**5,600**	**6,400**	**5,600**	**4,300**	**12,000**	**7,700**
Carbon Disulfide	4,000	µg/L	< 250	< 250	< 100	< 5.0	< 5.0	< 500	< 500	< 500	< 500	< 5.0	< 500	< 250	< 30	< 30	< 30	< 250	< 250	< 500	< 250	< 250	< 25	< 5.0	< 5.0
Ethylbenzene	700	µg/L	**1800**	**680**	**680**	**290**	**660**	< 500	**1,200**	**620**	**1,000**	**420**	**820**	**1,600**	**1,000**	**730**	**820**	**620**	**470**	< 500	**570**	**390**	**530**	**1,300**	**620**
Methylene Chloride	5	µg/L	< 250	**270**	< 100	< 5.0	< 5.0	< 500	< 500	< 500	< 500	< 5.0	< 500	< 250	< 50	< 50	< 50	< 250	<250	< 500	< 250	< 250	< 25	< 5.0	< 5.0
Toluene	1,000	µg/L	< 250	< 250	< 100	< 5.0	**7.9**	< 500	< 500	< 500	< 500	**11**	< 500	< 250	**24 J**	**57 J**	**68 J**	**29 J**	< 250	< 500	**38 J**	**36 J**	**38**	**140**	**15**
Trichloroethylene	5	µg/L	< 250	< 250	< 100	< 5.0	< 5.0	< 500	< 500	< 500	< 500	< 5.0	< 500	< 250	< 6.5	< 6.5	< 6.5	< 250	< 250	< 500	< 250	< 250	< 25	< 5.0	< 5.0
Xylenes, total	2,000	µg/L	**320**	< 250	**240**	**160**	**426**	< 500	**610**	< 500	**670**	**450**	**560**	**1100**	**790**	**780**	**760**	**640**	**420**	< 500	**470**	**310**	**350**	**850**	**280**
Semivolatile Organic Compounds																									
Acenaphthene	2,000	µg/L	**110**	**31**	**51**	**27**	**39**	< 50	**86**	**48**	**71**	**30**	**42**	< 210	**110**	**60**	**67**	**42**	**38**	**39**	**15**	**15**	**32**	**91 J**	**23**
Acenaphthylene	10	µg/L	**1.5**	< 1.0	< 1.0	< 1.0	**1.3**	< 1.0	**1.2**	< 1.0	**2.2**	**1.7**	< 19	< 210	**2.3**	**1.4**	**1.6 J**	**1.0 J**	**1.9**	< 2.0	< 9.4	< 9.4	**1.1 J**	< 10	< 10
Anthracene	10	µg/L	**3.2**	**0.51**	**0.99**	**0.44**	**0.55**	**0.72**	**1.6**	**0.69**	**1.1**	**0.082**	< 19	< 210	**1.0**	**0.68**	< 0.99	< 1.9	**0.30**	< 2.0	< 9.4	< 9.4	**0.34 J**	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	**0.057**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 19	< 210	< 0.10	< 0.095	< 0.99	< 1.9	<0.19	< 2.0	< 9.4	< 9.4	**0.50 J**	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 19	< 210	< 0.10	< 0.095	< 0.99	< 1.9	<0.19	< 2.0	< 9.4	< 9.4	**0.32 J**	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 19	< 210	< 0.10	< 0.095	< 0.99	< 1.9 *	<0.19	< 2.0	< 9.4	< 9.4	**0.43 J**	< 0.10	< 0.10
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 19	< 210	< 0.10	< 0.095	< 0.99	< 1.9	<0.19	< 2.0	< 9.4	< 9.4	< 1.9	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 19	< 210	< 0.10	< 0.095	< 0.99	< 1.9	<0.19	< 2.0	< 9.4	< 9.4	**0.40 J**	< 10	< 10
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 19	< 210	< 0.046	< 0.043	< 0.44	< 1.9	<0.19	< 2.0	< 9.4	< 9.4	**0.41 J**	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 19	< 210	< 0.10	< 0.095	< 0.99	< 1.9	<0.19	< 2.0	< 9.4	< 9.4	**0.30 J**	< 0.10	< 0.10
Fluoranthene	1,000	µg/L	**1.2**	**0.14**	**0.32**	**0.16**	**0.19**	**0.23**	**0.51**	**0.2**	**0.31**	< 0.10	< 19	< 210	**0.31**	**0.17 J**	< 0.99	< 1.9	<0.19	< 2.0	< 9.4	< 9.4	< 1.9	< 10	< 10
Fluorene	1,000	µg/L	**16**	**6.1**	**9.4**	**5.1**	**7.3**	**5.1**	**14**	**5.3**	**9.4**	**1.6**	< 19	< 210	**2.6**	**11**	**9.3**	**5.5**	**2.9**	**4.8**	**1.6 J**	**1.5 J**	**3.0**	**16 J**	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 19	< 210	< 0.10	< 0.095	< 0.99	< 1.9	<0.19	< 2.0	< 9.4	< 9.4	**0.27 J**	< 0.05	< 0.05
Naphthalene	20	µg/L	**3900**	**700**	**1800**	**550**	**920**	**1200**	**2,800**	**770**	**2,500**	**460**	**770**	**1600**	**3,100**	**1,300**	**11 J**	**630**	**550**	**560**	**310**	**310**	**380**	**3,900 J**	**330**
Phenanthrene	10	µg/L	**17**	**4.1**	**6.9**	**3.0**	**4.2**	**4.3**	**12**	**4.4**	**6.6**	**0.067**	< 19	< 210	**9.2**	**5.1**	**4.4**	**4.0**	**2.3**	< 2.0	< 9.4	< 9.4	**1.5 J**	**13 J**	< 10
Pyrene	1,000	µg/L	**1.7**	**0.17**	**0.38**	**0.17**	**0.22**	**0.29**	**0.59**	**0.18**	**0.31**	**0.093**	< 19	< 210	**0.32**	**0.20**	< 0.99	< 1.9	<0.19	< 2.0	< 9.4	< 9.4	**0.27 J**	< 10	< 10
Inorganic Compounds																									
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.01	< 0.05	< 0.05
Barium	2	mg/L	**0.64**	**0.35**	**0.284**	**0.281**	**0.422**	**0.357**	**0.364**	**0.347**	**0.441**	**0.475**	**0.45**	**0.50**	**0.57**	**0.42**	**0.45**	**0.41**	**0.38**	**0.35**	**0.32**	**0.32**	**0.29**	**0.437**	**0.236**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00027 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.004	< 0.01	< 0.01
Cadmium	0.005	mg/L	< 0.005	**0.0213**	**0.0124**	**0.0177**	**0.0144**	**0.0237**	< 0.005	< 0.005	**0.0096**	**0.0108**	**0.0081**	< 0.0050	**0.0029 J**	< 0.0020	**0.0027 J**	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0012	< 0.0012	< 0.0012	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.0019	< 0.0019	**0.0034 JB**	**0.0025 J**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.01	< 0.01
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.005	< 0.01	< 0.01
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04	< 0.04	**0.0027 J**	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.04	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.01	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 1.00	< 1.00
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01
Zinc	2	mg/L	< 0.02	**0.0959**	**0.0881**	**0.212**	**0.17**	**0.375**	**0.0686**	**0.0890**	**0.161**	**0.111**	**0.056**	**0.063**	**0.063**	**0.063**	**0.15**	**0.16**	**0.24**	**0.04**	**0.26**	**0.27**	**0.20**	**0.311**	**1.78**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
Detection Limit exceeds the Type I RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-503BR	MW-503BR	MW-503BR	MW-503BR	MW-503BR	MW-503BR	MW-503BR	MW-503BR	MW-503BR	MW-503BR	MW-503BR	MW-503BR	MW-503BR	MW-503BR	MW-503BR	MW-503BR	MW-504BR	MW-504BR	MW-504BR	MW-504BR	MW-504BR	MW-504BR	MW-504BR	MW-504BR	MW-504BR	MW-504BR	MW-504BR	MW-504BR	MW-504BR	MW-504BR
		Sample Date	7/25/2017	1/24/2017	7/26/2016	1/19/2016	7/29/2015	1/15/2015	7/16/2014	1/13/2014	7/11/2013	1/10/2013	7/26/2012	1/19/2012	7/6/2011	1/19/2011	7/19/2010	1/12/2010	7/29/2009	1/19/2009	7/25/2017	1/24/2017	7/26/2016	1/19/2016	7/29/2015	1/14/2015	7/16/2014	1/8/2014	7/10/2013	1/10/2013	7/26/2012	1/19/2012	7/7/2011	1/20/2011	7/19/2010	1/12/2010	7/23/2009	1/15/2009
		Unit	Post-Extraction					During Extraction													Post-Extraction					During Extraction												
Volatile Organic Compounds																																						
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 200	< 100	**13 J**	< 50	< 5.0	< 5000	<2000	< 20000	< 20000	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	< 1000	< 1000	< 1000	< 2000
Benzene	5	µg/L	**690**	< 5.0	**750**	< 5.0	**790**	**35**	**910**	< 5.0	**180**	**300**	**770 D**	**20**	**1,200**	< 0.25	**5,200**	**1,700**	**13,000**	**26,000**	**160**	< 5.0	**16**	< 5.0	**210**	< 5	**570**	< 5.0	< 5.0	**160**	**51**	**300**	**43**	**120**	**610**	**650**	**950**	**2600**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 0.60	< 6.0	< 0.60	< 250	<100	< 1000	< 1000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 50	< 50	< 50	**14 J**
Ethylbenzene	700	µg/L	**34**	< 5.0	**53**	< 5.0	**65**	< 5	**86**	< 5.0	**18**	**44**	**36**	**2.2 J**	**70**	**1.7 J**	**370**	**120**	< 1000	**1,100**	**28**	< 5.0	< 5.0	< 5.0	**22**	< 5	**130**	< 5.0	< 5.0	**22**	**8.0**	**41**	**8.4**	**4.1 J**	**110**	**110**	**180**	< 100
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 1.0	< 10	< 1.0	< 250	<100	< 1000	< 1000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 50	< 50	< 50	**230**
Toluene	1,000	µg/L	**120**	< 5.0	**79**	< 5.0	**240**	**12**	**270**	< 5.0	**77**	< 10	**230**	**8.7**	**410**	**1.1 J**	**2,100**	**620**	**4,600**	**8,500**	**64**	< 5.0	**6.6**	< 5.0	**80**	< 5	**220**	< 5.0	< 5.0	**49**	**16**	**86**	**16**	**2.8 J**	**260**	**150**	**210**	**150 B**
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	**0.22 J**	< 1.3	< 0.13	< 250	<100	< 1000	< 1000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 50	< 50	< 50	< 100
Xylenes, total	2,000	µg/L	**62**	< 5.0	**61**	< 5.0	**76**	< 5	**100**	< 5.0	**26**	**22**	**88**	**3.4 J**	**130**	**0.29 J**	**740**	**180**	< 1000	**2,200**	**46**	< 5.0	**5.2**	< 5.0	**25**	< 5.0	**110**	< 5.0	< 5.0	**23**	**8.4**	**45**	**8.6**	**4.6 J**	**140**	**83**	**110**	**120**
Semivolatile Organic Compounds																																						
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	**2.8**	< 20	**0.22**	**2.1**	< 0.099	**9.8**	**2.8**	< 3.8 *	**21 J***	< 0.5	< 0.5	**6.5**	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	**0.38**	**0.24**	**1.6 J**	**0.35**	**14**	**1.6 J**	< 1.9	**6.4**	**6.0 J**
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.39**	< 20	**0.20**	**1.9**	< 0.099	**7.3 J**	**2.4**	**8.7**	**66 ***	**1.2**	< 1.0	< 1.0	< 1.0	**2.1**	< 1	< 1.0	< 1.0	< 1.0	**0.31**	< 0.22	**1.2 J**	**0.23**	**0.47**	**2.8**	< 1.9	**9.9**	**3.0 J**
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.05**	< 0.05	**0.053**	< 0.20	< 20	< 0.096	**0.24**	< 0.099	< 9.4	< 1.9	< 3.8	< 38 *	**0.074**	< 0.05	< 0.05	< 0.05	**0.067**	< 0.05	**0.25**	< 0.05	< 0.05	< 0.20	< 0.22	< 0.96	**0.098 J**	**0.17 J**	< 1.9	< 1.9	< 3.9	< 19
Benz(a)anthracene	0.1	µg/L	< 0.05	**0.053**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 20	**0.098 J**	**0.16 J**	< 0.099	< 9.4	< 1.9	< 3.8	< 38	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.22	< 0.96	< 0.096	< 0.099	< 1.9	< 1.9	< 3.9	< 19
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 20	**0.11 J**	**0.16 J**	< 0.099	< 9.4	< 1.9	< 3.8	< 38	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.22	< 0.96	< 0.096	< 0.099	< 1.9	< 1.9	< 3.9	< 19
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 20	**0.15 J**	**0.10 J**	< 0.099	< 9.4	< 1.9	< 3.8	< 38	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.22	< 0.96	< 0.096	< 0.099	< 1.9	< 1.9	< 3.9	< 19
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 20	**0.097 J**	**0.21**	< 0.099	< 9.4	< 1.9	< 3.8	< 38	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.22	< 0.96	< 0.096	< 0.099	< 1.9	< 1.9	< 3.9	< 19
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 20	< 0.096	**0.19**	< 0.099	< 9.4	< 1.9	< 3.8	< 38 *	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.22	< 0.96	< 0.096	< 0.099	< 1.9	< 1.9	< 3.9	< 19
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 20	**0.075 J**	**0.20**	< 0.045	< 9.4	< 1.9	< 3.8	< 38	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.22	< 0.46	< 0.045	< 0.045	< 1.9	< 1.9	< 3.9	< 19
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 20	< 0.096	**0.25**	< 0.099	< 9.4	< 1.9	< 3.8	< 38	< 0.1	< 0.1	< 0.1	**0.24**	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.22	< 0.96	< 0.096	< 0.099	< 1.9	< 1.9	< 3.9	< 19
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 20	**0.14 J**	**0.19**	< 0.099	< 9.4	< 1.9	< 3.8	< 38 *	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.11**	< 0.10	< 0.10	< 0.20	< 0.22	< 0.96	< 0.096	< 0.099	< 1.9	< 1.9	< 3.9	< 19
Fluorene	1,000	µg/L	< 0.1	< 0.1	**0.28**	< 0.1	**0.27**	< 0.10	**0.36**	< 0.10	**0.28**	**0.98**	< 20	**0.17 J**	**2.3**	< 0.099	**6.6 J**	**2.5**	**5**	**22 J***	**0.54**	< 0.1	**0.39**	< 0.1	**0.58**	< 0.1	**1.2**	< 0.10	< 0.10	**0.27**	**0.22**	**1.2 J**	**0.57**	**2.1**	**1.7 J**	**2.7**	**8.6**	< 19
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 20	< 0.096	**0.20**	< 0.099	< 9.4	< 1.9	< 3.8	< 38	< 0.05	< 0.05	< 0.05	**0.052**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.22	< 0.96	< 0.096	< 0.099	< 1.9	< 1.9	< 3.9	< 19
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	<0.50	**5.1**	**1.1**	**290 D**	**1.6**	**1.2**	**11 J**	**910**	**64**	**1,300 B**	**3,700**	**4.3**	< 0.5	**7.4**	< 0.5	**36**	**0.65**	< 0.50	< 0.50	< 0.50	**12**	< 0.22	**91**	**0.42**	**11**	**120**	< 1.9	**410**	**370 B**
Phenanthrene	10	µg/L	< 0.05	**0.055**	**0.21**	< 0.05	**0.19**	< 0.05	**0.23**	< 0.05	**0.18**	**0.99**	< 20	**0.13 J**	**1.3**	< 0.099	**6.1 J**	**2.4**	**4.9**	**21 J***	**0.52**	**0.087**	**0.079**	< 0.05	**0.57**	**0.088**	**1.3**	**0.056**	< 0.05	**0.24**	< 0.22	**1.0 J**	**0.40**	**0.18 J***	**1.7 J**	**2.1**	**8**	< 19
Pyrene	1,000	µg/L	**0.082**	**0.079**	**0.064**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 20	**0.21**	**0.26**	< 0.099	< 9.4	< 1.9	< 3.8	< 38	**0.066**	< 0.05	**0.094**	< 0.05	**0.084**	< 0.05	**0.12**	< 0.05	< 0.05	< 0.20	< 0.22	< 0.96	< 0.096	< 0.099	< 1.9	< 1.9	< 3.9	< 19
Inorganic Compounds																																						
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010
Barium	2	mg/L	**0.0343**	**0.00652**	**0.0265**	< 0.02	**0.0221**	< 0.02	**0.0202**	<0.0200	**0.0214**	**0.071**	**0.046**	**0.034**	**0.058**	**0.031**	**0.19**	**0.14**	**0.32**	**0.35**	**0.233**	**0.18**	**0.916**	**0.0961**	**0.186**	**0.184**	**0.155**	**0.105**	**0.126**	**0.18**	**0.19**	**0.26**	**0.25**	**1.0**	**0.36**	**0.36**	**0.41**	**0.26**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00024 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00029 JB**	< 0.0040	< 0.0040	< 0.0040	< 0.0040
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.0103**	< 0.0050	< 0.0050	< 0.0020	< 0.0020	**0.0043 J**	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0012	< 0.0012	**0.0014 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0012	< 0.0012	< 0.0012	< 0.010	< 0.010	< 0.010	< 0.010
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	**0.0030 J**	**0.0030 J**	**0.011 JB**	**0.0028 J**	< 0.020	< 0.020	< 0.020	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.0110**	< 0.020	< 0.020	< 0.0019	< 0.0019	**0.0031 JB**	**0.0027 J**	< 0.020	< 0.020	< 0.020
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0050	**0.012**	**0.011**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.021**	**0.013**	< 0.01	< 0.01	< 0.010	< 0.010	**0.013**	**0.0099 J**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	**0.00078**	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04	< 0.04	< 0.0023	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.040	< 0.040	**0.0026 J**	**0.0024 J**	< 0.0023	< 0.040	< 0.040	< 0.040	**0.0025 J**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	**0.0020 J**
Zinc	2	mg/L	< 0.02	**0.0472**	**0.0227**	< 0.02	**0.0757**	**0.0378**	< 0.02	**0.0365**	**0.0641**	**0.069**	< 0.020	**0.024**	**0.051**	**0.066**	**0.036**	**0.089**	< 0.020	< 0.020	**0.0632**	**0.0595**	**0.03**	**0.022**	**0.0987**	**0.121**	**0.0429**	**0.248**	**0.327**	**0.029**	**0.027**	**0.0097 J**	**0.015 J**	< 0.0087	**0.024**	< 0.020	< 0.020	< 0.020

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Definitions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-506BR	MW-506BR	MW-506BR	MW-506BR	MW-506BR	MW-506BR	MW-506BR	MW-506BR	MW-507BR	MW-507BR	MW-507BR	MW-507BR	MW-507BR	MW-507BR	MW-507BR	MW-507BR	MW-507BR	MW-507BR	MW-507BR	MW-507BR	MW-507BR	MW-507BR	MW-507BR	MW-507BR	MW-507BR
		Sample Date	7/26/2012	1/25/2012	7/5/2011	1/19/2011	7/13/2010	1/7/2010	7/28/2009	1/15/2009	1/25/2018	7/27/2017	1/27/2017	7/28/2016	1/21/2016	7/30/2015	1/15/2015	7/17/2014	1/13/2014	7/11/2013	1/10/2013	7/26/2012	1/19/2012	7/6/2011	1/19/2011	7/13/2010	1/7/2010	7/28/2009	1/15/2009
		Unit	During Extraction								Post-Extraction						During Extraction											
Volatile Organic Compounds																												
Acetone	4,000	µg/L	< 100	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100
Benzene	5	µg/L	< 5.0	**0.29 J**	< 0.25	**0.97 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.25	< 0.25	**0.80 J**	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	4,000	µg/L	< 5.0	< 0.60	< 0.60 *	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 5.0	**26**	**27**	**13**
Ethylbenzene	700	µg/L	< 5.0	< 0.11	< 0.11	**1.6 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0
Methylene Chloride	5	µg/L	< 5.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	**2.9 J B**	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	1,000	µg/L	< 5.0	< 0.33	< 0.33	**1.3 J**	< 5.0	< 5.0	< 5.0	**0.49 JB**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	**1.0 J**	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethylene	5	µg/L	**22**	**25**	**8.3**	**7.2**	**4.3 J**	**7.9**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0
Xylenes, total	2,000	µg/L	< 5.0	**0.24 J**	< 0.20	**0.23 J**	**0.21 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0
Semivolatile Organic Compounds																													
Acenaphthene	2,000	µg/L	**1.5**	**5.6**	**2.3**	**2.1**	**2.7**	**3.4**	**1.7**	**1.5**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19
Acenaphthylene	10	µg/L	< 0.19	< 0.097	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	**0.037 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19
Anthracene	10	µg/L	< 0.19	< 0.097	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19
Benz(a)anthracene	0.1	µg/L	< 0.19	**0.52**	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19
Benzo(a)pyrene	0.2	µg/L	< 0.19	**0.51**	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19
Benzo(b)fluoranthene	0.2	µg/L	< 0.19	**0.71 ***	< 0.11	< 0.11	< 0.19 *	< 0.19	< 0.19	< 0.19	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	< 0.19 *	< 0.19	< 0.19	< 0.19
Benzo(g,h,i)perylene	10	µg/L	< 0.19	**0.50**	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19
Benzo(k)fluoranthene	10	µg/L	< 0.19	**0.71**	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19
Chrysene	0.2	µg/L	< 0.19	**0.61**	< 0.048	< 0.049	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	< 0.049	< 0.049	< 0.046	< 0.19	< 0.19	< 0.19	< 0.19
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.19	**0.66**	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19
Fluoranthene	1,000	µg/L	< 0.19	**0.12 J**	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19
Fluorene	1,000	µg/L	< 0.19	< 0.097	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.19	**0.56**	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.05	0.072	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19
Naphthalene	20	µg/L	< 0.19	**0.47**	**0.21**	**0.54**	< 0.19	< 0.19	< 0.19	**0.11 JB**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	11 J	< 0.50	**1.4**	< 0.50	< 0.19	< 0.19	< 0.11	**0.20 J**	**0.22**	< 0.19	< 0.19	< 0.19	< 0.19
Phenanthrene	10	µg/L	< 0.19	< 0.097	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19
Pyrene	1,000	µg/L	< 0.19	**0.15 J**	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 0.19	< 0.11	< 0.11	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19
Inorganic Compounds																													
Antimony	0.01	mg/L	< 0.02	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020
Arsenic	0.05	mg/L	< 0.02	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010
Barium	2	mg/L	**0.45**	**0.40**	**0.29**	**0.37**	**0.32**	**0.45**	**0.38**	**0.075**	**0.0763**	**0.0736**	**0.0728**	**0.0847**	**0.082**	**0.911**	**0.0698**	**0.0618**	**0.0697**	**0.0798**	**0.22**	**0.20**	**0.078**	**0.073**	**0.19**	**0.087**	**0.30**	**0.31**	**0.29**
Beryllium	0.004	mg/L	< 0.0040	< 0.00020	< 0.00020	**0.00026 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00036 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040
Cadmium	0.005	mg/L	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Chromium	0.1	mg/L	< 0.010	< 0.0012	**0.011**	**0.019**	**0.025**	**0.025**	**0.035**	**0.051**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0012	< 0.0012	**0.0012 J**	< 0.010	< 0.010	< 0.010	**0.0015 J**
Copper	1.3	mg/L	< 0.02	< 0.0019	< 0.0019	**0.0051 JB**	**0.0059 J**	< 0.020	< 0.020	**0.012 J**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.0019	< 0.0019	**0.0044 JB**	**0.0032 J**	< 0.020	< 0.020	**0.0028 J**
Cyanide	0.2	mg/L	< 0.010	< 0.0050	**0.012**	< 0.0050	< 0.010	< 0.010	< 0.010	**0.0051 J**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0050	**0.0076 J**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010
Lead	0.015	mg/L	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050
Mercury	0.002	mg/L	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Nickel	0.1	mg/L	< 0.04	< 0.0023	**0.0025 J**	< 0.0023	< 0.040	< 0.040	< 0.040	**0.0035 J**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	**0.0211**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04	< 0.04	< 0.0023	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040
Selenium	0.05	mg/L	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.0064	**0.010 J**	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010
Thallium	0.002	mg/L	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Vanadium (fume or dust)	0.2	mg/L	< 0.010	**0.0041 J**	**0.0048 J**	**0.0064 J**	**0.0066 J**	< 0.010	< 0.010	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	**0.0028 J**	**0.0033 J**	**0.0037 J**	**0.0030 J**	< 0.010	< 0.010	**0.0025 J**
Zinc	2	mg/L	< 0.020	< 0.0087	< 0.0087	**0.0097 J**	< 0.020	< 0.020	< 0.020	**0.011 J**	**0.0276**	< 0.02	< 0.02	< 0.02	**0.0375**	**0.0574**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.0087	< 0.0087	**0.0090 J**	**0.019 J**	**0.03**	< 0.020	**0.017 J**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only
MW-506BR was destroyed

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-508BR	MW-508BR	MW-508BR	MW-508BR	MW-508BR	MW-508BR	MW-508BR	MW-508BR	MW-508BR	MW-508BR	MW-508BR	MW-508BR	MW-508BR	MW-508BR	MW-508BR	MW-508BR	MW-508BR	MW-508BR	MW-508BR	MW-508BR	MW-509BR	MW-509BR	MW-509BR	MW-509BR	MW-509BR	MW-509BR	MW-509BR	MW-509BR	MW-509BR	MW-509BR	MW-509BR	MW-509BR	MW-509BR	MW-509BR	MW-509BR	MW-509BR
		Sample Date	1/23/2018	7/25/2017	1/24/2017	7/26/2016	1/19/2016	7/30/2015	7/30 DUP	1/15/2015	7/17/2014	1/14/2014	7/10/2013	1/8/2013	7/25/2012	1/19/2012	7/6/2011	1/19/2011	7/13/2010	1/7/2010	7/28/2009	1/15/2009	7/25/2017	1/24/2017	7/26/2016	1/19/2016	7/29/2015	1/15/2015	7/17/2014	1/13/2014	7/11/2013	1/10/2013	7/26/2012	1/19/2012	7/7/2011	1/19/2011	7/15/2010	1/11/2010	7/29/2009	1/15/2009
		Unit	Post-Extraction							During Extraction													Post-Extraction					During Extraction											
Volatile Organic Compounds																																						
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	**11 J**	< 5.0	< 100	< 100	< 100	**50 J**	< 50	< 50	< 50	< 50	< 50	< 50	< 2500	< 50	< 50	< 2,000	< 2,000	< 50	< 50	< 100	< 2000	< 5000	< 5000	< 10000
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**0.34 J**	**0.38 J**	**0.68 J**	**0.43 J**	< 5.0	< 5.0	**0.37 J**	**63**	< 5.0	**180**	**72**	**140**	**2500**	**7400**	< 5.0	**2,800**	**2,600**	**1,100**	**3,500**	**880**	**2,800**	**1,500**	**5,400**	**4,900**	**7,600**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 5.0	< 5.0	< 5.0	**7.5**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 5.0	< 5.0	< 100	< 100	< 6.0	< 6.0	< 12	< 100	< 250	< 250	< 500
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	**9.8**	< 5.0	**30**	**9.5**	**12**	**260**	**910**	< 5.0	**440**	**310**	**120**	**360**	**59**	**240**	**76 J**	**460**	**370**	< 500
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	**2.9 J**	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 5.0	< 5.0	< 100	< 100	< 10	< 10	< 20	< 100	< 250	< 250	**710**
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	**1.0 J**	< 5.0	< 5.0	< 5.0	**0.37 JB**	< 5.0	< 5.0	**23**	**9.5**	**16**	**460**	< 250	< 5.0	**78**	**600**	**210**	**830**	**360**	**950**	**490**	**2,300**	**1,900**	**1,900 B**
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 5.0	< 5.0	< 100	< 100	< 1.3	< 1.3	< 2.6	< 100	< 250	< 250	< 500
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	**6.4**	< 5.0	**19**	< 5.0	**6.7**	**160**	< 250	< 5.0	**150**	**230**	< 100	**300**	**84**	**360**	**170**	**970**	**710**	**1,000**
Semivolatile Organic Compounds																																						
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20	< 0.19	< 0.10	< 0.11	< 0.096	< 0.19	< 0.19	< 0.19	**0.025 J**	**1.2**	< 0.5	**1.9**	< 0.5	**1.0**	**16**	**12**	< 0.50	< 50	< 20	< 20	**42 D**	**1.1**	**13**	< 19	**21**	**15 ***	**30 J**
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.31**	< 0.19	**0.34**	< 0.11	< 0.096	< 0.19	< 0.19	< 0.19	**0.022 J**	< 1.0	< 1.0	**1.0**	< 1.0	< 1.0	**8**	**2.2**	< 1.0	**2.8**	< 20	< 20	**49 D**	**0.36**	**16**	< 19	**41**	**29**	**30 J**
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.19	< 0.10	< 0.11	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	**0.12**	< 0.05	**0.22**	**0.073**	**0.15**	**0.91**	**0.7**	< 0.05	**0.86**	< 20	< 20	**4.0 J D**	**0.54**	**1.2 J**	< 19	< 19	< 1.9	< 38
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.19	< 0.10	< 0.11	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 20	< 20	< 2.1	< 0.095	< 1.1	< 19	< 19	< 1.9	< 38
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.19	< 0.10	< 0.11	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 20	< 20	< 2.1	< 0.095	< 1.1	< 19	< 19	< 1.9	< 38
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.10	< 0.11	< 0.096	< 0.19 *	< 0.19	< 0.19	< 0.19	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 20	< 20	< 2.1	< 0.095	< 1.1	< 19	< 19	< 1.9	< 38
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.10	< 0.11	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 20	< 20	< 2.1	< 0.095	< 1.1	< 19	< 19	< 1.9	< 38
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.19	< 0.10	< 0.11	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 20	< 20	< 2.1	< 0.095	< 1.1	< 19	< 19	< 1.9	< 38
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.19	< 0.046	< 0.048	< 0.043	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 20	< 20	< 0.96	< 0.043	< 0.48	< 19	< 19	< 1.9	< 38
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.10	< 0.11	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 20	< 20	< 2.1	< 0.095	< 1.1	< 19	< 19	< 1.9	< 38
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.10	< 0.11	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.45**	**0.32**	< 0.10	**0.52**	< 20	< 20	< 2.1	**0.28**	< 1.1	< 19	< 19	< 1.9	< 38
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.19	< 0.10	< 0.11	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	**0.8**	< 0.1	**1.3**	< 0.1	**0.82**	**6.5**	**4.4**	< 0.10	**5.1**	< 20	< 20	**31 D**	**2.6**	**12**	< 19	**21**	**14**	**16 J**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.067**	< 0.05	< 0.05	< 0.05	< 0.20	< 0.19	< 0.10	< 0.11	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 20	< 20	< 2.1	< 0.095	< 1.1	< 19	< 19	< 1.9	< 38
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	<0.50	**1.6**	< 0.20	**0.59**	**0.24**	**11 J**	**0.099 J**	**0.44**	< 0.19	< 0.19	**0.096 J**	**32**	< 0.5	**65**	< 0.5	**3.8**	**810**	**290**	**1.1**	**830**	**610**	**300**	**2,700 D**	< 0.095	**750**	**320**	**2,900**	**1,100 B**	**2,400 B**
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.19	< 0.10	< 0.11	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	**1.2**	< 0.05	**1.9**	**0.2**	**1.2**	**7.9**	**5.2**	< 0.05	**6.3**	< 20	< 20	**34 D**	**3.5**	**11**	< 19	**21**	**14**	**17 J**
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.20	< 0.19	< 0.10	< 0.11	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19	**0.11**	< 0.05	**0.14**	**0.12**	**0.13**	**0.52**	**0.35**	< 0.05	**0.49**	< 20	< 20	< 2.1	**0.30**	< 1.1	< 19	< 19	< 1.9	< 38
Inorganic Compounds																																						
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010
Barium	2	mg/L	**0.242**	**0.297**	**0.308**	**0.41**	**0.511**	**0.526**	**0.518**	**0.614**	**0.566**	**0.708**	**0.650**	**0.68**	**0.72**	**0.68**	**0.77**	**0.66**	**0.66**	**0.27**	**0.64**	**1.3**	**0.127**	**0.0261**	**0.0965**	**0.117**	**0.108**	**0.128**	**0.419**	**0.0262**	**0.157**	**0.26**	**0.30**	**0.25**	**0.082**	**0.38**	**0.27**	**0.75**	**0.6**	**0.95**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00025 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00027 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	**0.00542**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.0058**	**0.0091**	**0.0053**	**0.0062**	**0.0033 J**	**0.0081**	**0.0029 J**	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	**0.0116**	< 0.01	**0.0161**	**0.0163**	**0.0137**	**0.0216**	**0.0179**	**0.0101**	< 0.010	< 0.010	**0.0017J**	**0.0031 J**	**0.0021 J**	**0.0013 J**	< 0.010	< 0.010	**0.0064 J**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.010	< 0.010	< 0.0012	**0.0012 J**	< 0.0012	< 0.010	< 0.010	< 0.010	< 0.010
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	**0.0021 J**	**0.0024 J**	**0.0044 JB**	< 0.020	< 0.020	< 0.020	**0.0038 J**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.020	< 0.020	< 0.0019	**0.0030 J**	**0.0043 JB**	< 0.020	< 0.020	< 0.020	< 0.020
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0050	**0.0056 J**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	**0.0054 J**	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04	< 0.04	**0.0055 J**	**0.0055 J**	**0.0065 J**	**0.0066 J**	< 0.040	< 0.040	**0.0035 J**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.040	< 0.040	**0.0038 J**	**0.0048 J**	**0.0046 J**	**0.0052 J**	< 0.040	< 0.040	**0.0038 J**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Vanadium (fume or dust)	0.2	mg/L	**0.0149**	**0.0122**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	**0.0086 J**	**0.0067 J**	**0.0068 J**	**0.0045 J**	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	**0.0029 J**
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.0087	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	< 0.020	**0.248**	**0.249**	**0.172**	**0.342**	**0.182**	**0.109**	**0.0395**	**0.258**	**0.183**	**0.12**	**0.11**	**0.072**	**0.17**	**0.087**	**0.019 J**	**0.023**	**0.021**	**0.017 J**

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-510BR	MW-510BR	MW-510BR	MW-510BR	MW-510BR	MW-510BR	MW-510BR	MW-510BR	MW-510BR	MW-510BR	MW-510BR	MW-510BR	MW-510BR	MW-510BR	MW-510BR	MW-510BR	MW-510BR	MW-511BR	MW-511BR	MW-511BR	MW-511BR	MW-511BR	MW-511BR	MW-511BR	MW-511BR	MW-511BR	MW-511BR	MW-511BR	MW-511BR	MW-511BR	MW-511BR	MW-511BR	MW-511BR
		Sample Date	7/25/2017	1/24/2017	7/26/2016	1/19/2016	7/29/2015	1/14/2015	7/16/2014	1/9/2014	7/11/2013	7/11/2013 DUP	1/10/2013	7/24/2012	1/23/2012	7/6/2011	1/19/2011	7/20/2010	1/11/2010	7/29/2009	1/19/2009	7/26/2017	1/25/2017	7/27/2016	1/20/2016	7/29/2015	1/14/2015	7/15/2014	7/15/2014 DUP	1/9/2014	7/11/2013	1/10/2013	7/26/2012	1/25/2012	7/6/2011	1/20/2011	7/20/2010	1/12/2010	7/29/2009	1/19/2009	1/19/2009 DUP
		Unit	Post-Extraction					During Extraction														Post-Extraction					During Extraction												
Volatile Organic Compounds																																							
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	<50	< 2,500	< 2,500	< 500	< 10,000	< 100	< 100	< 100	**19 J**	< 200	< 10000	< 20000	< 50	< 50	< 50	< 50	< 50	< 50	< 50	<50	**85**	< 2,000	< 2,000	< 250	560 J	< 250	**350**	< 10000	< 10000	< 10000	< 10000
Benzene	5	µg/L	**110**	**13**	**1100**	**4600**	**250**	**1,100**	**25**	**32**	**22,000**	**6,300**	**370**	**7,800**	**5,400**	**1,500**	**2,100**	**2300**	**96**	**4400**	**35000**	**70**	**40**	**16**	**440**	**200**	**450**	**670**	**590**	**2,500**	**1,200**	**3,400**	**1,900**	**4,000**	**3,600**	**6,100**	**3600**	**8,800**	**10,000**	**8,700**	**10,000**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	< 250	< 250	< 25	< 500	< 12	< 12	< 12	< 10	<10	< 500	< 1000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 100	< 30	< 30	< 30	< 5.0	< 500	< 500	160 J	99 J
Ethylbenzene	700	µg/L	**56**	**23**	**430**	**790**	**64**	**180**	**20**	**47**	**1,200**	**310**	**160**	**1200**	**590**	**230**	**630**	**660**	<10	< 500	**760 J**	< 5.0	< 5.0	< 5.0	**21**	**10**	**17**	**55**	**59**	**180**	**150**	**200**	**120**	**220 J**	**190 J**	**420**	**200**	**710**	**830**	**870**	**1,000**
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	< 250	< 250	< 25	< 500	< 20	< 20	< 20	< 10	**50**	< 500	< 1000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 100	< 50	< 50	< 50	< 5.0	< 500	< 500	< 500	< 500
Toluene	1,000	µg/L	**29**	**6.4**	**280**	**740**	**220**	**190**	**30**	**52**	**10,000**	**2,900**	**350**	**4,700**	**2,600**	**1,100**	**1,200**	**1500**	**160**	**5500**	**19000**	< 5.0	< 5.0	< 5.0	**9.7**	**5.1**	**35**	**75**	**88**	**850**	**410**	**1,100**	**630**	**1,200**	**1,000**	**1,800**	**1200**	**2,300**	**2,500**	**1,200**	**1,400**
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	< 250	< 250	< 25	< 500	< 2.6	< 2.6	< 2.6	< 10	< 10	< 500	< 1000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 100	< 6.5	< 6.5	< 6.5	< 5.0	< 500	< 500	< 500	< 500
Xylenes, total	2,000	µg/L	**66**	**27**	**370**	**730**	**120**	**200**	**24**	**66**	**690**	**690**	**230**	**1,500**	**930**	**520**	**1,100**	**940**	**360**	**3500**	**5200**	< 5.0	< 5.0	< 5.0	**5.8**	< 5.0	**12**	**35**	**40**	**250**	**190**	**280**	**160**	**350**	**310**	**650**	**400**	**940**	**1000**	**810**	**900**
Semivolatile Organic Compounds																																							
Acenaphthene	2,000	µg/L	**4.0**	**3.1**	**4.2**	**27**	**6.5**	**7.8**	< 0.50	**4.8**	**53**	**15**	**21**	< 190	**39**	**120**	**37**	**16**	**9.3**	**11 ***	**12 J**	**1.1**	**0.5**	< 0.5	**4.1**	**1.9**	**3.3**	**1.8**	**1.8**	**3.5**	**5.2**	**5.0**	**4.6**	**8.4**	**4.2**	**16**	**6.1**	**9.1**	**21 ***	**31 J***	**23 J***
Acenaphthylene	10	µg/L	< 1.0	< 1.0	**4.5**	**6.3**	**2.8**	**2.7**	< 1.0	<1.0	< 100	**5.1**	< 19	< 190	**110**	**670**	**32**	**170**	**120**	**170**	**150**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	**1.1**	**1.3**	< 2.1	< 4.3	**2.6**	**0.98 J**	**8.7**	**4.0**	**5.9**	**11**	**5.5 J***	**5.0 J***
Anthracene	10	µg/L	**1.0**	**0.44**	**1.9**	**8.1**	**2.3**	**0.86**	**0.31**	**0.78**	**5.8**	**3.0**	< 19	< 190	< 11	**220**	< 9.6	**24**	**8.5**	< 9.7	< 94	**0.051**	< 0.05	**0.068**	**0.1**	**0.063**	**0.081**	**0.081**	**0.097**	**0.42**	**0.35**	< 2.1	< 4.3	< 1.0	< 0.94	**1.3 J**	< 1.9	< 1.9	< 3.9	< 38 *	< 38 *
Benz(a)anthracene	0.1	µg/L	**0.52**	**0.57**	**6.0**	**8.4**	**1.4**	**0.17**	**0.11**	**0.12**	**0.76**	**1.2**	< 19	< 190	< 11	**190**	< 9.6	**13**	**5.1**	< 9.7	< 94	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 2.1	< 4.3	< 1.0	< 0.94	< 1.0	< 1.9	< 1.9	< 3.9	< 38	< 38
Benzo(a)pyrene	0.2	µg/L	**0.36**	**0.38**	**5.6**	**4.9**	**1.2**	**0.13**	**0.096**	**0.07**	**0.52**	**1.1**	< 19	< 190	< 11	**160**	< 9.6	**11**	**4**	< 9.7	< 94	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 2.1	< 4.3	< 1.0	< 0.94	< 1.0	< 1.9	< 1.9	< 3.9	< 38	< 38
Benzo(b)fluoranthene	0.2	µg/L	**0.38**	**0.34**	**5.2**	**5.1**	**0.92**	**0.13**	< 0.10	<0.010	**0.42**	**0.89**	< 19	< 190	< 11	< 5.1	< 9.6	**4.4**	**1.7**	< 9.7	< 94	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.1	< 4.3	< 1.0 *	< 0.94	< 1.0	< 1.9	< 1.9	< 3.9	< 38	< 38
Benzo(g,h,i)perylene	10	µg/L	**0.19**	**0.2**	**2.6**	**2.3**	**0.51**	< 0.1	< 0.10	<0.10	**0.18**	**0.58**	< 19	< 190	< 11	**54**	< 9.6	**3.8**	**1.5**	< 9.7	< 94	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.1	< 4.3	< 1.0	< 0.94	< 1.0	< 1.9	< 1.9	< 3.9	< 38	< 38
Benzo(k)fluoranthene	10	µg/L	**0.18**	**0.16**	**1.8**	**1.4**	**0.4**	< 0.05	< 0.05	<0.050	**0.16**	**0.36**	< 19	< 190	< 11	**110**	< 9.6	**7.1**	**2.2**	< 9.7	< 94	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 2.1	< 4.3	< 1.0	< 0.94	< 1.0	< 1.9	< 1.9	< 3.9	< 38 *	< 38 *
Chrysene	0.2	µg/L	**0.49**	**0.43**	**5.0**	**5.1**	**1.1**	**0.14**	**0.095**	**0.081**	**0.68**	**1.0**	< 19	< 190	< 5.1	**140**	< 4.3	**11**	**3.6**	< 9.7	< 94	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 2.1	< 4.3	< 0.47	< 0.42	< 0.45	< 1.9	< 1.9	< 3.9	< 38	< 38
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	**0.49**	**0.59**	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	**0.10**	< 19	< 190	< 11	**16**	< 9.6	< 1.9	**0.46**	< 9.7	< 94	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.1	< 4.3	< 1.0	< 0.94	< 1.0	< 1.9	< 1.9	< 3.9	< 38	< 38
Fluoranthene	1,000	µg/L	**1.6**	**1.2**	**5.2**	**13**	**3.5**	**0.78**	**0.44**	**0.81**	**4.0**	**3.1**	< 19	< 190	< 11	**330**	< 9.6	**26**	**10**	< 9.7	< 94	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	**0.15**	**0.17**	< 2.1	< 4.3	< 1.0	< 0.94	< 1.0	< 1.9	< 1.9	< 3.9	< 38 *	< 38 *
Fluorene	1,000	µg/L	**3.9**	**1.2**	**1.3**	**19**	**8.4**	**4.7**	**0.61**	**4.7**	**42**	**14**	< 19	< 190	**39**	**590**	**30**	**67**	**43**	**44**	**31 J**	**0.23**	**0.13**	**0.12**	**1.1**	**0.54**	**0.89**	**0.84**	**0.83**	**2.3**	**3.5**	**3.9**	**4.4**	**7.0**	**3.7**	**13**	**5.0**	**4.2**	**7.8**	**6.8 J***	< 38 *
Indeno(1,2,3-cd)pyrene	0.4	µg/L	**0.14**	**0.15**	**2.2**	**1.9**	**0.39**	**0.058**	< 0.05	<0.050	**0.15**	**0.45**	< 19	< 190	< 11	**50**	< 9.6	**4.1**	**1.8**	< 9.7	< 94	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 2.1	< 4.3	< 1.0	< 0.94	< 1.0	< 1.9	< 1.9	< 3.9	< 38 *	< 38 *
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**300**	**0.64**	<0.50	**2,400**	**0.65**	**680**	**3,600**	**4,700 D**	**11 J**	**3,700**	**1400**	**2100**	**6600 B**	**6900**	< 50	**11**	**0.64**	**93**	< 0.5	**150**	**75**	**85**	**390**	**260**	**180**	**120**	**310 D**	**26**	**12,000**	**490**	**1,700**	**2,600 B**	**1,800**	**1,300**
Phenanthrene	10	µg/L	**1.1**	**0.6**	**4.4**	**8.9**	**9.6**	**5.6**	**0.66**	**0.96**	**47**	**17**	< 19	< 190	**37**	**1,000**	**27**	**120**	**56**	**41**	**32 J**	**0.26**	**0.13**	**0.061**	**0.87**	**0.53**	**0.76**	**0.7**	**0.73**	**2.5**	**2.3**	**3.4**	< 4.3	**7.6**	**5.0**	**12 ***	**6.4**	**3.8**	**5.9**	< 38 *	< 38 *
Pyrene	1,000	µg/L	**2.2**	**1.8**	**9.9**	**18**	**4.8**	**0.97**	**0.45**	**0.89**	**4.4**	**3.9**	< 19	< 190	< 11	**530**	< 9.6	**44**	**12**	**11**	< 94	< 0.05	< 0.05	< 0.05	**0.071**	**0.084**	**0.055**	**0.051**	**0.054**	**0.15**	**0.19**	< 2.1	< 4.3	< 1.0	< 0.94	< 1.0	< 1.9	< 1.9	< 3.9	< 38	< 38
Inorganic Compounds																																							
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.006	< 0.006	< 0.006	< 0.006	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Arsenic	0.05	mg/L	< 0.005	< 0.005	< 0.005	< 0.05	< 0.005	< 0.05	< 0.005	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010
Barium	2	mg/L	**0.0348**	**0.019**	**0.212**	**0.285**	**0.0545**	**0.109**	**0.0515**	<0.0200	**0.326**	**0.130**	**0.049**	**0.29**	**0.28**	**0.23**	**0.22**	**0.22**	**0.067**	**0.14**	**0.17**	**0.0381**	**0.0312**	**0.0424**	**0.0844**	**0.0712**	**0.0678**	**0.0609**	**0.0598**	**0.256**	**0.268**	**0.30**	**0.33**	**0.41**	**0.40**	**0.47**	**0.52**	**0.56**	**0.26**	**0.15**	**0.14**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00027 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.00020	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040
Cadmium	0.005	mg/L	**0.0056**	**0.00591**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.0089**	**0.0063**	**0.0298**	**0.0062**	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0012	< 0.0012	**0.0019 J**	**0.0012 J**	< 0.010	< 0.010	**0.0047 J**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0012 J**	**0.0016 J**	< 0.0012	**0.0014 J**	< 0.010	< 0.010	< 0.010	< 0.010
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	**0.0026 J**	< 0.0019	**0.0044 JB**	**0.0020 J**	< 0.020	< 0.020	< 0.020	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	**0.0037 JB**	**0.0030 J**	< 0.020	< 0.020	< 0.020	< 0.020
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.012**	< 0.01	< 0.01	**0.014**	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	**0.0052 J**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00091	< 0.00091	< 0.00091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00091	< 0.00091	< 0.00091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04	< 0.04	< 0.0023	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.040	< 0.040	**0.013 J**	**0.0012 J**	**0.0094 J**	**0.011 J**	< 0.040	< 0.040	**0.0046 J**	**0.0055 J**
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	**0.0030 J**	< 0.0024	**0.0030 J**	< 0.010	< 0.010	< 0.010	**0.0046 J**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Zinc	2	mg/L	**0.0736**	**0.0886**	**0.0702**	**0.0285**	**0.13**	**0.0939**	**0.0623**	**0.165**	**0.124**	**0.573**	**0.14**	**0.028**	**0.015 J**	**0.016 J**	**0.11**	**0.13**	<0.020	**0.12**	**0.012 J**	< 0.02	< 0.02	< 0.02	< 0.02	**0.0567**	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0087	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	0.028	< 0.020

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Definitions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
Detection Limit exceeds the Type I RRS
RRS - Risk Reduction Standard

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through January 2018
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-512BR	MW-512BR	MW-512BR	MW-512BR	MW-512BR	MW-512BR	MW-512BR	MW-512BR	MW-512BR	MW-512BR	MW-512BR	MW-512BR	MW-512BR	MW-512BR	MW-512BR	MW-512BR	MW-512BR	MW-512BR	MW-513BR	MW-513BR	MW-513BR	MW-513BR	MW-513BR	MW-513BR	MW-513BR	MW-513BR	MW-513BR	MW-513BR	MW-513BR	MW-513BR	MW-513BR
		Sample Date	7/26/2017	1/25/2017	7/27/2016	1/20/2016	7/30/2015	1/14/2015	7/17/2014	1/14/2014	7/11/2013	1/10/2013	7/26/2012	1/25/2012	7/7/2011	1/20/2011	7/20/2010	7/20/2010 DUP	1/12/2010	7/29/2009	1/19/2009	1/24/2018	7/26/2017	1/26/2017	7/28/2016	1/21/2016	7/29/2015	1/14/2015	7/16/2014	1/8/2014	7/11/2013	1/9/2013	7/24/2012	2/6/2012	7/7/2011	1/18/2011
		Unit	Post-Extraction					During Extraction														Post-Extraction						During Extraction							
Volatile Organic Compounds																																			
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 500	< 500	< 5.0	< 5.0	< 5.0	**52 J**	**44 J**	< 2000	< 2000	< 2000	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0
Benzene	5	µg/L	< 5.0	< 5.0	**6.4**	**20**	< 5.0	< 5.0	**12**	**5.2**	**85**	**150**	**1,300 D**	**40**	**1,500**	**63**	**200**	**200**	**3,500**	**1,900**	**2,300**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**2.1 J**	**0.49 J**	**30**
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 0.60	< 0.60	< 0.60	< 10	< 10	< 100	< 100	18 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**8.4**	< 25	**8.4**	**20**	**1.8 J**	**24**	**560**	**250**	**250**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**0.25 J**	< 0.11	**3.0 J**
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 1.0	< 1.0	< 1.0	< 10	< 10	< 100	< 100	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 0.33	**3.4 J**	< 0.33	**0.91 J**	**1.0 J**	< 100	< 100	**130**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.33	< 0.33	< 0.33
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 0.13	< 0.13	< 0.13	< 10	< 10	< 100	< 100	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**0.31 J**	< 0.13	**0.35 J**
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	**1.4 J**	**34**	**3.3 J**	**7.3 J**	**7.5 J**	**200**	**110**	**160**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**0.33 J**	< 0.20	**1.4 J**
Semivolatile Organic Compounds																																			
Acenaphthene	2,000	µg/L	**2.2**	< 0.5	< 0.5	**2.1**	< 0.5	**2.5**	**3**	**0.95**	**1.7**	**1.2**	< 19	**2.4**	**12**	**2.4**	**1.7**	**0.77**	**26**	**10 ***	**6.8 J***	**6.6**	**4.6**	**3.7**	**3.6**	**3.0**	< 0.5	**1.3**	**1.8**	< 0.50	**2.4**	**2.5**	**2.9**	**6.9**	**0.16 J**	**4.1**
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.19	< 19	**0.16 J**	< 0.99	**0.39**	**0.55**	**0.13 J**	**2.7**	**3.5**	**4.0 J***	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 0.20	< 0.20	**0.16 J**	< 0.097	< 0.095
Anthracene	10	µg/L	**0.072**	< 0.05	**0.06**	**0.054**	< 0.05	**0.051**	**0.088**	**0.072**	**0.066**	< 0.19	< 19	**0.11 J**	< 0.99	< 0.096	**0.11 J**	< 0.19	< 1.9	< 0.94	< 19 *	< 0.05	**0.068**	**0.057**	**0.075**	< 0.05	< 0.05	**0.082**	**0.068**	< 0.05	< 0.050	< 0.20	< 0.20	< 0.11	< 0.097	< 0.095
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 19	< 0.11	< 0.99	< 0.096	< 0.19	< 0.19	< 1.9	< 0.94	< 19	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.20	< 0.20	< 0.11	< 0.097	< 0.095
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 19	< 0.11	< 0.99	< 0.096	< 0.19	< 0.19	< 1.9	< 0.94	< 19	< 0.05	< 0.05	< 0.05 UJ	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.20	< 0.20	< 0.11	< 0.097	< 0.095
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 19	< 0.11 *	< 0.99	< 0.096	< 0.19	< 0.19	< 1.9	< 0.94	< 19	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.11	< 0.097	< 0.095
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 19	< 0.11	< 0.99	< 0.096	< 0.19	< 0.19	< 1.9	< 0.94	< 19	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.11	< 0.097	< 0.095
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 19	< 0.11	< 0.99	< 0.096	< 0.19	< 0.19	< 1.9	< 0.94	< 19 *	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.20	< 0.20	< 0.11	< 0.097	< 0.095
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.19	< 19	< 0.049	< 0.44	< 0.043	< 0.19	< 0.19	< 1.9	< 0.94	< 19	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.20	< 0.20	< 0.049	< 0.043	< 0.043
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 19	< 0.11	< 0.99	< 0.096	< 0.19	< 0.19	< 1.9	< 0.94	< 19	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.11	< 0.097	< 0.095
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 19	**0.14 J**	< 0.99	< 0.096	< 0.19	< 0.19	< 1.9	< 0.94	< 19 *	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.11	< 0.097	< 0.095
Fluorene	1,000	µg/L	**0.24**	< 0.1	< 0.1	**0.2**	< 0.1	**0.28**	**0.37**	**0.22**	**0.30**	< 0.19	< 19	**0.57**	**2.7**	**0.41**	**0.79**	**0.41**	**5.2**	**3.1**	< 19 *	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	**0.19**	< 0.20	< 0.20	**0.40**	< 0.097	**0.28**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.081**	< 0.05	< 0.05	< 0.05	< 0.19	< 19	< 0.11	< 0.99	< 0.096	< 0.19	< 0.19	< 1.9	< 0.94	< 19	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.054**	< 0.05	< 0.05	< 0.05	< 0.050	< 0.20	< 0.20	< 0.11	< 0.097	< 0.095
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	**1.4**	**0.69**	< 0.50	**3.7**	<0.50	**7.4**	**15**	**320**	**0.84**	**320**	**11 J**	< 0.19	< 0.19	**810**	**370 B**	**350**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	**1.9**	**2.6**	< 0.20	**2.2**	**0.30**	**4.4**
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	**0.086**	< 0.05	< 0.05	**0.27**	**0.44**	**0.41**	< 0.19	< 19	**0.71**	**1.6 J**	**0.23 ***	**0.82**	**0.56**	**4.9**	**3.0**	< 19 *	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.20	< 0.20	< 0.11	< 0.097	< 0.095
Pyrene	1,000	µg/L	**0.061**	< 0.05	< 0.05	**0.053**	< 0.05	< 0.05	< 0.05	**0.11**	**0.075**	< 0.19	< 19	**0.18 J**	< 0.99	< 0.096	**0.11 J**	< 0.19	< 1.9	< 0.94	< 19	**0.11**	**0.1**	**0.068**	**0.076**	**0.055**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.050	< 0.20	< 0.20	**0.11 J**	< 0.097	< 0.095
Inorganic Compounds																																			
Antimony	0.01	mg/L	< 0.006	< 0.006	< 0.006	< 0.006	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046
Barium	2	mg/L	**0.332**	**0.198**	**0.334**	**0.299**	**0.19**	**0.154**	**0.192**	**0.256**	**0.171**	**0.13**	**0.23**	**0.13**	**0.24**	**0.11**	**0.064**	**0.062**	**0.15**	**0.079**	**0.22**	**0.712**	**0.656**	**0.637**	**0.614**	**0.68**	**0.114**	**0.711**	**0.635**	**0.115**	**0.749**	**0.72**	**0.79**	**0.74**	**0.15**	**0.61**
Beryllium	0.004	mg/L	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00027 JB**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.00020
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0012	< 0.0012	< 0.0012	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.010	< 0.010	< 0.0012	**0.0025 J**	**0.0013 J**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.02	< 0.02	< 0.0019	< 0.0019	**0.0027 JB**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	< 0.0019
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	**0.0068 J**	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0000991	< 0.0000991	< 0.0000991	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0000991	< 0.0000991	< 0.0000991
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04	< 0.04	< 0.0023	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.040	< 0.040	< 0.0023	**0.0028 J**	< 0.0023
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064
Thallium	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.010	< 0.010	< 0.0024	**0.012**	< 0.0024
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	**0.0781**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.020	< 0.020	< 0.0087	< 0.0087	**0.0095 J**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	< 0.02	< 0.02	< 0.02	**0.0238**	< 0.02	**0.0224**	< 0.02	< 0.02	< 0.0200	< 0.020	< 0.020	< 0.0087	**0.030**	< 0.0087

Notes:
* - Not a HSRA regulated compound
ISCO - *in-situ* chemical oxidation
** - Resampled in August 2007 for VOCs only

Data Qualifier Defintions:
-- - Not analyzed
B (Inorganics) - Estimated analyte concentration
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded for sample
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
< - Analyte not detected at referenced detection limit
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits
Bold - Exceeds the laboratory detection limit
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
RRS - Risk Reduction Standard

APPENDIX E-3

SUMMARY OF HISTORICAL GROUNDWATER DATA – DECOMMISSIONED MONITORING WELLS

Appendix E-3
Summary of Historical Ground Water Sampling Data - Decommissioned Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Ga

Chemical Name	Type 1 Risk Reduction Standard	Location ID	CP-01				MW-04																
		Sample Date	1/18/2002	1/18/2002	7/12/2001	1/17/2001	01/13/2009	7/15/2008	1/10/2008	8/21/2007**	7/11/2007	2/13/2007	7/11/2006	1/15/2006	7/21/2005	7/16/2004	1/22/2004	7/20/2003	7/03 DUP	1/20/2003	7/9/2002	1/17/2002	7/11/2001	1/18/2001
		Unit	Pre-ISCO				Post-ISCO								Pre-ISCO									
Volatile Organic Compounds																								
Acetone	4	mg/L	0.025 U	0.025 U	0.025 U	0.025 UJ	< 100 U	< 100	< 50	< 50	--	< 50	50 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	**17 J**	25 U
Benzene	0.005	mg/L	**0.0014**	**0.0013**	**0.0087**	**0.0037**	< 5.0 U	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.21 J**	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	4	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	< 5.0 U	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichloromethane	0.005	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	< 5.0 U	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.29 J**	5.0 U
Ethylbenzene	0.7	mg/L	**0.00024 J**	**0.00024 J**	**0.00036 J**	0.00041 U	< 5.0 U	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.14 J**	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1	mg/L	**0.00028 J**	**0.00029 J**	**0.00033 J**	**0.00032 J**	< 5.0 U	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	0.005	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	< 5.0 U	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.48 J**	1.0 U	1.0 U	1.0 U
Xylenes, total	2	mg/L	**0.0026**	**0.003**	**0.0038**	**0.0042**	< 5.0 U	< 5.0	< 5.0	< 5.0	--	< 5	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds																								
2-Methylnaphthalene	*	mg/L	**0.078 J**	**0.072 J**	**0.066**	**0.11**	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2	mg/L	**0.056**	**0.055**	**0.064**	**0.086**	< 0.19 U	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	< 0.19 U	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	0.0002	mg/L	**0.0021 J**	**0.0022 J**	**0.0018 J**	0.01 U	< 0.19 U	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.0001	mg/L	0.01 U	**0.00037 J**	0.01 U	0.01 U	< 0.19 U	< 0.19	<0.050	--	<0.050	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	< 0.19 U	< 0.19	<0.050	--	<0.050	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	< 0.19 U	< 0.19	<0.10	--	<0.10	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	DL	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	< 0.19 U	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	DL	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	< 0.19 U	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	< 0.19 U	< 0.19	<0.050	--	<0.050	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.003	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	< 0.19 U	< 0.19	<0.10	--	<0.10	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	0.001	mg/L	**0.0069 J**	**0.0072 J**	**0.0073 J**	**0.012**	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1	mg/L	**0.0016 J**	**0.0019 J**	**0.002 J**	**0.005 J**	< 0.19 U	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1	mg/L	**0.019**	**0.018**	**0.02**	**0.032**	< 0.19 U	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.0004	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	< 0.19 U	< 0.19	<0.050	--	<0.050	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	0.02	mg/L	0.01 U	0.01 U	**0.0013 J**	0.01 U	0.027 J	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	mg/L	**0.018**	**0.017**	**0.02**	**0.028**	< 0.19 U	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1	mg/L	**0.0013 J**	**0.0017 J**	**0.0027 J**	**0.0038 J**	0.022 J	0.095 J	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds																								
Aluminum (fume or dust)	*	mg/L	0.041 U	0.035 U	0.2 U	**0.13 J**	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.37**	0.2 U	**0.034 B**	**0.059 B**	**0.093 B**
Antimony	0.01	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	< 0.020 U	< 0.020	< 0.0200	--	< 0.020	< 0.02	0.02 U	0.01 U	0.006 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0057 B**
Arsenic	0.05	mg/L	0.01 U	0.01 U	0.01 U	**0.0069 J**	< 0.010 U	< 0.010	<0.0500	--	<0.050	< 0.05	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0045 B**	**0.0053 B**	0.01 U
Barium	2	mg/L	**0.32**	**0.32**	**0.27**	**0.32**	0.038	**0.14**	**0.0428**	--	**0.0727**	**0.0479**	**0.0509**	0.2 U	**0.0907**	**0.13**	**0.077**	**0.07**	**0.07**	**0.084**	**0.073**	**0.091**	**0.1**	**0.12**
Beryllium	0.004	mg/L	0.004 U	0.004 U	0.004 U	0.00072 U	< 0.0040 U	< 0.0040	< 0.0100	--	< 0.010	< 0.01	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	**0.00073 B**	0.004 U	0.004 U
Cadmium	0.005	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	< 0.0050 U	< 0.0050	< 0.0050	--	< 0.0050	< 0.005	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	**170**	**170**	**140**	**160**	--	--	--	--	--	--	--	**9.98**	**8.04**	**34**	**17**	**17**	**18**	**16**	**17**	**19**	**18**	**20**
Chromium	0.1	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	< 0.010 U	< 0.010	< 0.0100	--	< 0.010	< 0.01	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UN	0.01 U
Cobalt	*	mg/L	0.01 U	0.01 U	0.01 U	**0.0014 J**	--	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Copper	1.3	mg/L	0.0015 U	0.0017 U	0.02 U	**0.0068 J**	0.0026 J	0.0022 J	< 0.0100	--	< 0.010	< 0.01	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0021 B**	0.02 U	0.02 UN	**0.00096 B**	
Cyanide	0.2	mg/L	**0.27**	**0.32**	**0.16**	**0.33**	< 0.010 U	0.0067 J	< 0.010	--	< 0.010	< 0.01	0.01 U	0.01 U	0.01 U	**0.019**	0.01 U	0.015 U	0.015 U	0.01 U	**0.0055 J**	**0.0076 B**	**0.0082 B**	**0.0057 B**
Iron	*	mg/L	**12**	**12**	**11**	**15**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	0.015	mg/L	0.005 U	0.0024 U	0.005 U	0.0045 U	< 0.0050 U	< 0.0050	< 0.0100	--	< 0.010	< 0.01	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.0016 B**	0.005 U	0.005 U	**0.0018 B**	0.005 U
Magnesium	*	mg/L	**19**	**19**	**15**	**18**	--	--	--	--	--	--	--	5 U	**2.54**	**6.1**	**2.1**	**2.4**	**2.5**	**1.9**	**1.6**	**2**	**1.8**	**2.1**
Manganese	*	mg/L	**0.86**	**0.86**	**0.74**	**0.88**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	0.002	mg/L	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.00012 J	< 0.00020	< 0.00020	--	< 0.00020	< 0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	**0.000098 B**	0.0002 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	< 0.040 U	< 0.040	< 0.0200	--	< 0.020	< 0.02	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	**7.4**	**7.5**	**7.1**	**7.9**	--	--	--	--	--	--	--	5 U	**1.75**	**5.8**	**4.3**	**4.1**	**4.4**	**3.9**	**4.2**	**4.5 N**	**5.9**	**4.0**
Selenium	0.05	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	< 0.010 U	< 0.010	< 0.0200	--	< 0.020	< 0.02	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	**8.7**	**9.1**	**7.9**	**9.4**	--	--	--	--	--	--	--	**12.6**	**12.9**	**5**	**2.5**	**4.9**	**5**	**3.6**	**2.5**	**2.9**	**3.4**	**3.8**
Thallium	0.002	mg/L	0.002 UW	0.002 UJ	0.002 UW	0.002 U	< 0.0010 U	< 0.0010	< 1.00	--	< 1.00	< 0.01	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.002 UWN	0.002 UJ	0.002 U	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	< 0.010 U	< 0.010	< 0.0100	--	< 0.010	< 0.01	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	0.02 U	0.02 U	0.02 U	0.008 U	0.013 J	**0.061**	< 0.0200	--	< 0.020	< 0.02	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.03**	**0.03**	**0.0091 B**	**0.0065 J**	**0.011 B**	**0.014 B**	**0.021**

Notes:

-- - Not analyzed
* - Not a HSRA regulated compound
B (Inorganics) - Estimated analyte concentration
Bold - analyte detected
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
RRS - Risk Reduction Standard
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-3
Summary of Historical Ground Water Sampling Data - Decommissioned Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Ga

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-06			MW-07							MW-08				MW-09			MW-10		
		Sample Date	1/21/2002	7/12/2001	1/23/2001	4/4/2002	3/8/2002	3/8/2002	1/21/2002	7/12/2001	7/12/2001	1/16/2001	4/4/2002	1/22/2002	7/16/2001	1/16/2001	1/22/2002	7/16/2001	1/23/2001	1/21/2002	7/12/2001	1/17/2001
		Unit	Pre-ISCO			Pre-ISCO							Pre-ISCO				Pre-ISCO			Pre-ISCO		
Volatile Organic Compounds																						
Acetone	4	mg/L	2.5 U	5 U	0.25 U	--	--	0.025 U	0.12 U	**0.016 J**	**0.019 J**	0.025 UJ	--	2.5 U	2.5 U	0.62 U	5 U	**0.085 J**	0.025 U	**0.024 J**	0.025 U	0.025 U
Benzene	0.005	mg/L	**21 D**	**15**	**18 D**	**0.012**	--	**0.00042 J**	**1.8 D**	**0.75 D**	**0.62 D**	**0.15**	**11**	**25 D**	**15**	**17 D**	**23**	**23 D**	**2.4 D**	**0.68 D**	**1.1 D**	**0.0024**
Carbon Disulfide	4	mg/L	0.1 U	0.2 U	0.01 U	--	--	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	--	0.1 U	0.1 U	0.025 U	0.2 U	0.005 U	0.001 U	0.001 U	0.001 U	**0.0028**
Dichloromethane	0.005	mg/L	0.5 U	1 U	0.05 U	0.005 U	--	0.005 U	0.025 U	0.005 U	0.005 U	0.005 U	0.5 U	0.5 U	0.5 U	0.12 U	1 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethylbenzene	0.7	mg/L	**4.8**	**4.5**	**5.5 D**	**0.00065 J**	--	0.001 U	**0.56**	**0.3 D**	**0.24 D**	**0.07**	**2.3**	**4.5**	**3.8**	**4.7**	**3.9**	**3.5 D**	**1.2 D**	**0.0019**	**0.017**	**0.00012 J**
Toluene	1	mg/L	**3.7**	**3.3**	**6.4 D**	**0.0024**	--	0.001 U	**0.17**	**0.062**	**0.066**	**0.017**	**0.58**	**2.8**	**0.56**	**2.3**	**11**	**16 D**	**0.54 D**	0.001 U	**0.00054 J**	0.001 U
Trichloroethylene	0.005	mg/L	0.1 U	0.2 U	0.01 U	0.001 U	--	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	**0.085 J**	0.1 U	0.1 U	0.025 U	0.2 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes, total	2	mg/L	**3.7**	**3.7**	**4.5**	--	--	0.002 U	**0.39**	**0.15**	**0.16**	**0.062**	--	**3.6**	**3.2**	**4.4**	**3.7**	**5.8 D**	**0.73 D**	**0.0083**	**0.015**	**0.0033**
Semivolatile Organic Compounds																						
2-Methylnaphthalene	*	mg/L	**0.67 D**	**0.77**	**1**	--	--	**0.0011 J**	**0.11**	**0.035**	**0.038**	**0.019**	--	**0.66**	**0.53**	**0.61**	**0.77**	**0.86**	**0.58**	**0.056**	**0.062**	**0.03**
Acenaphthene	2	mg/L	**0.072**	**0.11 J**	**0.1**	**0.0088 J**	--	**0.0012 J**	**0.029 J**	**0.021**	**0.022**	**0.016**	**0.12**	**0.12**	**0.1**	**0.11**	**0.039 J**	**0.075**	**0.063**	**0.052**	**0.068**	**0.048**
Acenaphthylene	0.0002	mg/L	**0.057**	**0.085 J**	**0.18**	**0.007 J**	--	**0.0015 J**	**0.046 J**	**0.031**	**0.032**	**0.018**	**0.0067 J**	**0.0087 J**	**0.0032 J**	**0.011 J**	**0.14**	**0.14**	**0.057**	0.01 U	0.01 U	0.01 U
Anthracene	0.0002	mg/L	**0.0045 J**	0.5 U	**0.0069 J**	**0.00062 J**	--	**0.00055 J**	0.1 U	**0.0022 J**	**0.0027 J**	**0.0014 J**	**0.0044 J**	**0.0036 J**	**0.0047 J**	**0.0043 J**	**0.0054 J**	**0.0082 J**	**0.0043 J**	**0.00041 J**	**0.00052 J**	0.01 U
Benz(a)anthracene	0.0001	mg/L	0.01 U	0.5 U	0.05 U	0.01 U	--	0.01 U	0.1 U	0.01 U	0.01 U	0.01 U	0.05 U	0.1 U	0.05 U	0.05 U	0.1 U	0.05 U	**0.022 J**	0.01 U	0.01 U	0.01 U
Benzo(a)pyrene	0.0002	mg/L	0.01 U	0.5 U	0.05 U	0.01 U	--	0.01 U	0.1 U	0.01 U	0.01 U	0.01 U	0.05 U	0.1 U	0.05 U	0.05 U	0.1 U	0.05 U	**0.023 J**	0.01 U	0.01 U	0.01 U
Benzo(b)fluoranthene	0.0002	mg/L	0.01 U	0.5 U	0.05 U	0.01 U	--	0.01 U	0.1 U	0.01 U	0.01 U	0.01 U	0.05 U	0.1 U	0.05 U	0.05 U	0.1 U	0.05 U	**0.032 J**	0.01 U	0.01 U	0.01 U
Benzo(g,h,i)perylene	0.0002	mg/L	0.01 U	0.5 U	0.05 U	0.01 U	--	0.01 U	0.1 U	0.01 U	0.01 U	0.01 U	0.05 U	0.1 U	0.05 U	0.05 U	0.1 U	0.05 U	**0.0086 J**	0.01 U	0.01 U	0.01 U
Benzo(k)fluoranthene	0.0002	mg/L	0.01 U	0.5 U	0.05 U	0.01 U	--	0.01 U	0.1 U	0.01 U	0.01 U	0.01 U	0.05 U	0.1 U	0.05 U	0.05 U	0.1 U	0.05 U	**0.026 J**	0.01 U	0.01 U	0.01 U
Chrysene	0.0002	mg/L	0.01 U	0.5 U	0.05 U	0.01 U	--	0.01 U	0.1 U	0.01 U	0.01 U	0.01 U	0.05 U	0.1 U	0.05 U	**0.0045 J**	0.1 U	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U
Dibenzo(a,h)anthracene	0.003	mg/L	0.01 U	0.5 U	0.05 U	0.01 U	--	0.01 U	0.1 U	0.01 U	0.01 U	0.01 U	0.05 U	0.1 U	0.05 U	**0.0048 J**	0.1 U	0.05 U	**0.009 J**	0.01 U	0.01 U	0.01 U
Dibenzofuran	0.001	mg/L	**0.0049 J**	0.5 U	**0.011 J**	--	--	0.01 U	**0.0033 J**	**0.0023 J**	**0.0025 J**	**0.0017 J**	--	**0.0066 J**	0.05 U	**0.0055 J**	**0.0088 J**	**0.0098 J**	**0.0086 J**	**0.00078 J**	**0.00086 J**	0.01 U
Fluoranthene	1	mg/L	**0.0016 J**	0.5 U	**0.0024 J**	0.01 U	--	0.01 U	0.1 U	**0.00094 J**	**0.001 J**	**0.00076 J**	**0.0019 J**	0.1 U	**0.002 J**	**0.0019 J**	**0.0039 J**	**0.0047 J**	**0.0017 J**	0.01 U	0.01 U	0.01 U
Fluorene	1	mg/L	**0.02**	**0.029 J**	**0.048 J**	**0.0047 J**	--	**0.00052 J**	**0.013 J**	**0.011**	**0.012**	**0.0077 J**	**0.026 J**	**0.028 J**	**0.027 J**	**0.027 J**	**0.031 J**	**0.043 J**	**0.039 J**	**0.006 J**	**0.0076 J**	**0.0046 J**
Indeno(1,2,3-cd)pyrene	0.0004	mg/L	0.01 U	0.5 U	0.05 U	0.01 U	--	0.01 U	0.1 U	0.01 U	0.01 U	0.01 U	0.05 U	0.1 U	0.05 U	0.05 U	0.1 U	0.05 U	**0.0083 J**	0.01 U	0.01 U	0.01 U
Naphthalene	0.02	mg/L	**7.4 D**	**12**	**9.5 D**	**0.11**	--	**0.0059 J**	**1.7**	**0.66 D**	**0.72 D**	**0.19**	**4 D**	**7 D**	**4.1 D**	**7 D**	**7 D**	**6.8 D**	**3.4 D**	**0.039**	**0.11**	**0.068**
Phenanthrene	*	mg/L	**0.026**	**0.026 J**	**0.04 J**	**0.0027 J**	--	**0.00071 J**	**0.0093 J**	**0.009 J**	**0.0091 J**	**0.0044 J**	**0.026 J**	**0.026 J**	**0.024 J**	**0.027 J**	**0.032 J**	**0.033 J**	**0.027 J**	**0.0022 J**	**0.0026 J**	**0.0012 J**
Pyrene	1	mg/L	**0.0019 J**	0.5 U	0.05 U	0.01 U	--	0.01 U	0.1 U	**0.0019 J**	**0.0022 J**	**0.001 J**	**0.0028 J**	0.1 U	**0.0033 J**	**0.003 J**	**0.0055 J**	**0.0082 J**	0.05 U	0.01 U	0.01 U	0.01 U
Inorganic Compounds																						
Aluminum (fume or dust)	*	mg/L	0.2 U	**0.04 B**	**0.04 B**	--	--	--	0.2 U	0.2 U	0.2 U	**0.086 B**	--	0.2 U	**0.057 B**	0.2 U	0.2 U	**1.0**	**0.57**	0.2 U	0.2 U	**0.12 B**
Antimony	0.01	mg/L	0.02 U	0.02 U	0.02 U	--	--	--	0.02 U	0.02 U	0.02 U	**0.0060 B**	--	0.02 U	0.02 U	**0.0065 B**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	0.01 U	0.01 U	0.01 U	--	--	--	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0034 B**	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.48**	**0.39**	**0.38**	--	--	--	**0.18**	**0.09**	**0.085**	**0.059**	--	**1**	**0.87**	**0.92**	**0.45**	**0.48**	**0.31**	**0.45**	**0.45**	**0.46**
Beryllium	0.004	mg/L	0.004 U	0.004 U	0.004 U	--	--	--	0.004 U	0.004 U	0.004 U	**0.0023 B**	--	0.004 U	0.004 U	**0.0023 B**	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	**0.0022 B**
Cadmium	0.005	mg/L	0.005 U	0.005 U	0.005 U	--	--	--	0.005 U	0.005 U	0.005 U	0.005 U	--	0.005 U	**0.00075 B**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	**79**	**77**	**72**	--	--	--	**120**	**95**	**90**	**87**	--	**33**	**27**	**28**	**73**	**74**	**57**	**21**	**20**	**20**
Chromium	0.1	mg/L	0.01 U	0.01 U	0.01 U	--	--	--	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	0.01 U	0.01 U	0.01 U	--	--	--	**0.0066 B**	**0.0053 B**	**0.0042 B**	**0.0073 B**	--	**0.018**	**0.016**	**0.015**	**0.0021 B**	**0.0017 B**	0.01 U	**0.0069 B**	**0.0084 B**	**0.0085 B**
Copper	1.3	mg/L	**0.00096 B**	0.02 U	0.02 U	--	--	--	**0.003 B**	**0.0034 B**	**0.0032 B**	**0.0051 B**	--	**0.0011 B**	0.02 U	0.02 U	0.02 U	**0.0029 B**	**0.0035 B**	**0.0014 B**	0.02 U	0.02 U
Cyanide	0.2	mg/L	**0.048**	**0.034**	**0.029**	--	**4.1**	**10**	**1.9**	**1.5**	**1.7**	**2.9**	--	**0.036**	**0.043**	**0.046**	**0.037**	**0.038**	**0.036**	**0.011**	**0.0096 B**	**0.017**
Iron	*	mg/L	**9.8**	**9.8**	**9.3**	--	--	--	**6.4**	**5.0**	**4.5**	**3.8**	--	**110**	**93**	**98**	**21**	**23**	**12**	**75**	**83**	**84**
Lead	0.015	mg/L	0.005 U	0.005 U	0.005 U	--	--	--	0.005 U	0.005 U	0.005 U	**0.0021 B**	--	0.005 U	0.005 U	**0.002 B**	0.005 U	0.005 U	**0.0019 B**	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	**69**	**71**	**64**	--	--	--	**9.7**	**6.7**	**6.4**	**5.7**	--	**36**	**29**	**31**	**36**	**35**	**18**	**20**	**19**	**19**
Manganese	*	mg/L	**2.6**	**2.7**	**2.6**	--	--	--	**1.2**	**0.63**	**0.59**	**0.3**	--	**5.4**	**4.6**	**4.9**	**1.2**	**1.5**	**0.56**	**1.6**	**1.7**	**1.8**
Mercury	0.002	mg/L	0.0002 U	0.0002 U	0.00020 U	--	--	--	0.0002 U	0.0002 U	0.0002 U	0.00020 U	--	0.0002 U	0.0002 U	0.00020 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	0.04 U	0.04 U	0.04 U	--	--	--	0.04 U	0.04 U	0.04 U	0.04 U	--	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	**1.8**	**1.7**	**1.7**	--	--	--	**6.8**	**5.7**	**5.4**	**4.3**	--	**3.2**	**2.7**	**3.2**	**9.1**	**8.6**	**5.1**	**2.8**	**2.6**	**3.2**
Selenium	0.05	mg/L	0.01 U	0.01 U	0.01 U	--	--	--	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	**59**	**58**	**58**	--	--	--	**14**	**7.9**	**7.5**	**6.2**	--	**30**	**32**	**31**	**19**	**20**	**10**	**59**	**57**	**51**
Thallium	0.002	mg/L	0.002 U	0.002 U	0.002 U	--	--	--	0.002 U	0.002 U	0.002 U	0.002 U	--	0.002 U	0.002 U	0.002 UW	0.002 U	0.002 U	0.002 UW	0.002 U	0.002 U	0.002 UW
Vanadium (fume or dust)	0.2	mg/L	0.01 U	0.01 U	0.01 U	--	--	--	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	**0.0034 B**	0.01 U	**0.0025 B**	0.01 U	0.01 U	0.01 U	**0.0027 B**
Zinc	2	mg/L	0.02 U	0.02 U	0.02 U	--	--	--	**0.0066 B**	0.02 U	0.02 U	0.02 U	--	**0.012 B**	0.02 U	0.02 U	**0.0064 B**	**0.073**	**0.039**	**0.008 B**	0.02 U	0.02 U

Notes:

-- - Not analyzed
* - Not a HSRA regulated compounds
B (Inorganics) - Estimated analyte concentration
Bold - analyte detected
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
RRS - Risk Reduction Standard
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-3
Summary of Historical Ground Water Sampling Data - Decommissioned Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Ga

Chemical Name	Type 1 Risk Reduction Standard	Location ID / Sample Date / Unit	MW-11																								
			1/16/2012	7/5/2011	1/17/2011	7/13/2010	1/5/2010	7/21/2009	1/13/2009	7/15/2008	1/10/2008	8/21/2007**	7/11/2007	2/14/2007	7/11/2006	1/10/2006	7/21/2005	1/18/2005	7/16/2004	1/22/2004	7/18/2003	1/20/2003	7/9/2002	7/9/2002	4/3/2002	1/17/2002	7/11/2001	1/24/2001
			Post ISCO														Pre-ISCO										
Volatile Organic Compounds																											
Acetone	4	µg/L	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	< 100	< 100	< 50	< 50	--	< 50	50 U	10 U	25 U	25 U	25 U	25 U	25 U	**140**	25 U	25 U	--	25 U	**20 J**	25 U
Benzene	0.005	µg/L	< 0.25	< 0.25	**0.29 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.39 J**	1.0 U	1.0 U	1.0 U	1.0 U	**0.17 J**	1.0 U
Carbon Disulfide	4	µg/L	< 0.60	< 0.60	< 0.60	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**10**	1.0 U	1.0 U	1.0 U	--	1.0 U	**0.79 J**	1.0 U
Ethylbenzene	0.7	µg/L	< 0.11	< 0.11	**0.12 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.13 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	0.005	µg/L	< 1.0	**3.5 J B**	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.38 J**	5.0 U	5.0 U	5.0 U	**1.1 JB**
Toluene	1	µg/L	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.32 J**	**0.47 J**	**0.36 J**	1.0 U	**0.39 J**	**0.44 J**	1.0 U
Trichloroethylene	0.005	µg/L	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.83 J**	1.0 U
Xylenes, total	2	µg/L	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	--	< 5	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.14 JB**	2.0 U	2.0 U	--	2.0 U	2.0 U	2.0 U
Semivolatile Organic Compounds																											
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	**--**	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	< 0.099	< 0.12	< 0.099	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10	µg/L	< 0.099	< 0.12	< 0.099	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 0.099	< 0.12	< 0.099	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.099	< 0.12	< 0.099	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	--	< 0.05	**0.23**	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.099	< 0.12	< 0.099	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	--	< 0.05	**0.06**	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.099	< 0.12	< 0.099	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	--	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.099	< 0.12	< 0.099	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.099	< 0.12	< 0.099	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.045	< 0.056	< 0.044	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	--	< 0.05	**0.18**	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.099	< 0.12	< 0.099	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.10	--	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 0.099	< 0.12	< 0.099	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	< 0.099	< 0.12	< 0.099	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.099	< 0.12	< 0.099	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	--	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 0.099	< 0.12	**0.41**	< 0.19	0.21	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	< 0.099	< 0.12	< 0.099	< 0.19	< 0.19	< 0.19	< 0.19	**0.018 J**	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	< 0.099	< 0.12	< 0.099	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds																											
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	**--**	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.16 J**	**0.079 B**	--	0.2 U	0.2 U	**0.49**
Antimony	0.01	mg/L	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	--	< 0.02	< 0.02	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	--	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.0046	< 0.0046	**0.0090 J**	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	<0.0500	--	< 0.05	< 0.05	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0053 B**	--	**0.0086 B**	0.01 U	**0.0067 B**
Barium	2	mg/L	**0.83**	**0.81**	**1.5**	0.82	1	1	**0.68**	**0.81**	**0.648**	--	**0.779**	**0.754**	**0.933**	**0.779**	**1.05**	**0.92**	**1.1**	**0.62**	**0.73**	**0.47**	**0.68**	**0.65**	--	**0.58**	**0.64**	**1.7**
Beryllium	0.004	mg/L	< 0.00020	**0.00020 J**	**0.00027 J**	**0.00020 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	--	< 0.010	< 0.01	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	--	**0.00085 B**	**0.00057 B**	0.004 U
Cadmium	0.005	mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	--	< 0.005	< 0.005	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.02**	0.005 U	0.005 U	0.005 U	--	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	**24.1**	**26.5**	**26**	**30**	**20**	**21**	**15**	**20**	**20**	--	**19**	**18**	**42**
Chromium	0.1	mg/L	**0.0015 J**	**0.0016 J**	**0.0072 J**	< 0.010	< 0.010	< 0.010	**0.0013 J**	< 0.010	< 0.0100	--	< 0.010	< 0.01	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 UN	0.01 U
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.0261**	**0.0271**	**0.032**	**0.036**	**0.019**	**0.02**	**0.016**	**0.025**	**0.024**	--	**0.023**	**0.02**	**0.053**
Copper	1.3	mg/L	< 0.0019	< 0.0019	**0.0058 J**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	--	< 0.010	< 0.01	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0011 B**	0.02 U	0.02 U	--	0.02 U	**0.0011 BN**	0.02 U
Cyanide	0.2	mg/L	< 0.0050	**0.021**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	--	< 0.010	< 0.01	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0100	--	< 0.010	< 0.01	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.01**	0.005 U	0.005 U	0.005 U	--	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	**17.6**	**17.2**	**18**	**20**	**17**	**18**	**15**	**17**	**17**	--	**17**	**16**	**25**
Mercury	0.002	mg/L	< 0.000091	< 0.000091	< 0.000091	<0.00020	<0.00020	0.00022	**0.000081 J**	< 0.00020	< 0.00020	--	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	**0.00012 B**	0.0002 U	0.0002 U	--	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	**0.013 J**	**0.011 J**	**0.014 J**	**0.013 J**	< 0.040	< 0.040	**0.0087 J**	**0.011 J**	< 0.0200	--	< 0.02	< 0.02	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	**0.0048 B**	**0.0097 J**	**0.0095 B**	--	**0.012 B**	**0.019 B**	**0.0095 B**
Potassium	*	mg/L	--	**--**	--	--	--	--	--	--	--	--	--	--	--	5 U	**2.45**	**2.8**	**3.1**	**2.1**	**2.1**	**1.6**	**2.1**	**2**	--	**2 N**	**2.0**	**3.6**
Selenium	0.05	mg/L	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	**0.0045 J**	< 0.010	< 0.0200	--	< 0.02	< 0.02	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	**36.4**	**37.2**	**37**	**41**	**22**	**38**	**42**	**41**	**41**	--	**37**	**43**	**44**
Thallium	0.002	mg/L	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	--	< 1.00	< 0.001	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 UWN	0.002 UJ	0.002 UWN	--	0.002 U	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	< 0.0024	< 0.0024	**0.0063 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	--	< 0.010	< 0.01	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.01**	0.01 U	0.0031 U	**0.0023 B**	--	**0.0039 B**	**0.0025 B**	0.01 U
Zinc	2	mg/L	< 0.0087	< 0.0087	**0.013 J**	< 0.020	< 0.020	< 0.020	**0.0098 J**	< 0.020	< 0.0200	--	< 0.02	< 0.02	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.04**	0.02 U	0.02 U	0.02 U	--	0.02 U	0.02 U	0.02 U

Notes:

-- - Not analyzed
* - Not a HSRA regulated compounds
B (Inorganics) - Estimated analyte concentration
Bold - analyte detected
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
RRS - Risk Reduction Standard
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-3
Summary of Historical Ground Water Sampling Data - Decommissioned Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Ga

Chemical Name	Type 1 Risk Reduction Standard	Location ID / Sample Date / Unit	MW-13						MW-14		MW-15		MW-18																
			3/8/2002	3/8/2002	1/22/2002	7/17/2001	1/23/2001	1/23/2001	3/8/2002	3/8/2002	7/18/2001	1/24/2001	7/22/2009	01/13/2009	07/17/2008	1/9/2008	8/21/07***	7/12/2007	2/13/2007	7/12/2006	1/10/2006	7/20/2005	7/12/2004	2/10/2004	7/15/2003	1/17/2003	7/11/2002	1/18/2002	7/12/2001	1/17/2001
			Pre-ISCO						Pre-ISCO		Pre-ISCO		Post-ISCO									Pre-ISCO								
Volatile Organic Compounds																													
Acetone	4	mg/L	--	0.5 U	5 U	0.62 U	0.25 U	2.5 U	10 U	--	**0.025 R**	**0.013 J**	< 100 U	< 100 U	< 100	< 50	--	< 50	< 50	50 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	0.005	mg/L	--	**1.9**	**30**	**19 D**	**9.3 D**	**9.6**	**34**	--	**0.00048 J**	0.001 U	< 5.0 U	< 5.0 U	< 5.0	< 5.0	--	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.22 J**	**0.33 J**
Carbon Disulfide	4	mg/L	--	0.02 U	0.2 U	0.025 U	0.01 U	0.1 U	0.4 U	--	0.00039 U	0.001 U	< 5.0 U	< 5.0 U	< 5.0	< 5.0	--	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichloromethane	0.005	mg/L	--	0.1 U	1 U	0.12 U	0.05 U	0.5 U	2 U	--	0.005 U	**0.00045 J**	< 5.0 U	< 5.0 U	< 5.0	< 5.0	--	< 5	< 5	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.55 JB**
Ethylbenzene	0.7	mg/L	--	**0.65**	**4.9**	**4.4**	**2.8 D**	**2.4**	**19**	--	0.001 U	0.001 U	< 5.0 U	< 5.0 U	< 5.0	< 5.0	--	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.24 J**	1.0 U
Toluene	1	mg/L	--	**0.64**	**11**	**2.2**	**2.5 D**	**2.1**	**0.31 J**	--	**0.00037 J**	0.001 U	< 5.0 U	< 5.0 U	< 5.0	< 5.0	--	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	0.005	mg/L	--	0.02 U	0.2 U	0.025 U	0.01 U	0.1 U	0.4 U	--	**0.00031 J**	0.001 U	**6.7**	**5.3**	5.0 J	**11**	--	**11**	**6.9**	5 U	**1.6**	**1.5**	1.0 U	1.0 U	1.0 U	1.0 U	**0.67 J**	1.0 U	1.0 U
Xylenes, total	2	mg/L	--	**0.83**	**3.7**	**2.8**	**2.6**	**2.1**	**49**	--	**0.0014 J**	**0.00023 J**	< 5.0 U	< 5.0 U	< 5.0	< 5.0	--	< 5	< 5	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.6 J**	2.0 U
Semivolatile Organic Compounds																													
2-Methylnaphthalene	*	mg/L	--	**0.24 D**	**0.58**	**0.57**	**0.7**	**0.75**	**36 D**	--	**0.00054 J**	**0.003 J**	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U
Acenaphthene	2	mg/L	--	**0.038**	**0.11**	**0.12**	**0.097**	**0.1**	**4.6**	--	**0.015**	**0.018**	< 0.19 U	< 0.19 U	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	0.0002	mg/L	--	**0.026**	**0.023 J**	**0.015 J**	**0.073**	**0.08**	**1.2**	--	0.01 U	0.01 U	< 0.19 U	< 0.19 U	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Anthracene	0.0002	mg/L	--	**0.0042 J**	0.1 U	**0.002 J**	0.05 U	0.05 U	**2.6**	--	**0.0046 J**	**0.013**	< 0.19 U	< 0.19 U	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.0001	mg/L	--	**0.00093 J**	0.1 U	0.05 U	0.05 U	0.05 U	**1.3**	--	**0.0017 J**	**0.01**	< 0.19 U	< 0.19 U	< 0.19	< 0.050	--	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.0002	mg/L	--	**0.00049 J**	0.1 U	0.05 U	0.05 U	0.05 U	**0.43 J**	--	**0.00092 J**	**0.0066 J**	< 0.19 U	< 0.19 U	< 0.19	< 0.050	--	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.0002	mg/L	--	**0.0005 J**	0.1 U	0.05 U	0.05 U	0.05 U	**0.49 J**	--	**0.00066 J**	**0.0035 J**	< 0.19 U	< 0.19 U	< 0.19	< 0.10	--	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	0.0002	mg/L	--	**0.001 J**	0.1 U	0.05 U	0.05 U	0.05 U	**0.57**	--	0.01 UJ	**0.003 J**	< 0.19 U	< 0.19 U	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	0.0002	mg/L	--	0.01 U	0.1 U	0.05 U	0.05 U	0.05 U	**0.57**	--	**0.00092 J**	**0.0054 J**	< 0.19 U	< 0.19 U	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.0002	mg/L	--	**0.00095 J**	0.1 U	0.05 U	0.05 U	0.05 U	**0.97**	--	**0.0018 J**	**0.014**	< 0.19 U	< 0.19 U	< 0.19	< 0.050	--	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.003	mg/L	--	0.01 U	0.1 U	0.05 U	0.05 U	0.05 U	**0.13 J**	--	0.01 UJ	0.01 U	< 0.19 U	< 0.19 U	< 0.19	< 0.10	--	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	0.001	mg/L	--	**0.0025 J**	**0.0048 J**	**0.0046 J**	**0.0057 J**	**0.0059 J**	**2**	--	**0.00078 J**	**0.0011 J**	--	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1	mg/L	--	**0.0013 J**	0.1 U	0.05 U	0.05 U	0.05 U	**3**	--	**0.0026 J**	**0.017**	< 0.19 U	< 0.19 U	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1	mg/L	--	**0.016**	**0.013 J**	**0.014 J**	**0.02 J**	**0.019 J**	**3.9**	--	**0.0058 J**	**0.01**	< 0.19 U	< 0.19 U	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.0004	mg/L	--	**0.0012 J**	0.1 U	0.05 U	0.05 U	0.05 U	**0.74**	--	0.01 UJ	**0.0034 J**	< 0.19 U	< 0.19 U	< 0.19	< 0.050	--	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	0.02	mg/L	--	**3.1 D**	**12 D**	**9 D**	**7.4 D**	**9.3 D**	**100 D**	--	0.01 U	**0.0042 J**	< 0.19 U	0.026 J	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	**0.56 J**	10 U
Phenanthrene	*	mg/L	--	**0.007 J**	**0.0099 J**	**0.013 J**	**0.014 J**	**0.015 J**	**10 D**	--	**0.016**	**0.064**	< 0.19 U	< 0.19 U	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1	mg/L	--	**0.0012 J**	0.1 U	0.05 U	0.05 U	0.05 U	**2.7**	--	**0.0062 J**	**0.027**	< 0.19 U	< 0.19 U	< 0.19	< 10	--	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	10 UJ	10 U	10 U	10 U	10 U
Inorganic Compounds																													
Aluminum (fume or dust)	*	mg/L	--	--	**0.041 B**	**0.12 BN**	**2.1**	**0.48**	--	--	**24**	**65**	--	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Antimony	0.01	mg/L	--	--	0.02 U	0.02 U	0.02 U	0.02 U	--	--	0.02 U	0.02 U	< 0.020 U	< 0.020 U	< 0.020	< 0.0200	--	< 0.02	< 0.02	0.02 U	0.01 U	0.006 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0088 B**
Arsenic	0.05	mg/L	--	--	**0.0052 B**	0.01 U	**0.0077 B**	**0.0048 B**	--	--	0.01 U	**0.014**	< 0.020 U	< 0.010 U	< 0.010	<0.0500	--	< 0.05	< 0.05	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	--	--	**0.15**	**0.16**	**0.17**	**0.16**	--	--	**0.35**	**0.5**	**0.048**	**0.048**	**0.044**	**0.0461**	--	**0.0327**	**0.0451**	**0.0523**	0.2 U	**0.049**	**0.058**	**0.065**	**0.07**	**0.06**	**0.064**	**0.072**	**0.067**	**0.097**
Beryllium	0.004	mg/L	--	--	0.004 U	0.004 U	0.004 U	0.004 U	--	--	**0.00056 J**	**0.0021 B**	< 0.0040 U	< 0.0040 U	< 0.0040	< 0.0100	--	< 0.010	< 0.01	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	**0.0019 B**
Cadmium	0.005	mg/L	--	--	0.005 U	0.005 U	0.005 U	0.005 U	--	--	**0.001 J**	**0.0034 B**	< 0.0050 U	< 0.0050 U	< 0.0050	< 0.0050	--	< 0.005	< 0.005	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	**32**	**54**	**61**	**63**	--	--	**140**	**130**	--	--	--	--	--	--	--	--	**21**	**24.4**	**29**	**29**	**36**	**30**	**29**	**33**	**29**
Chromium	0.1	mg/L	--	--	0.01 U	0.01 U	**0.0025 B**	0.01 U	--	--	**0.038**	**0.1**	**0.017**	0.0087 J	0.0066 J	< 0.0100	--	< 0.010	< 0.01	0.01 U	**0.0064**	0.01 U	**0.036**	**0.032**	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	--	--	0.01 U	0.01 U	**0.002 B**	**0.0023 B**	--	--	**0.006 J**	**0.017**	--	--	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 UJ	**0.0035 B**	**0.0033 B**	**0.0036 B**	**0.0033 B**	**0.0029 B**
Copper	1.3	mg/L	--	--	**0.0013 B**	**0.0017 B**	**0.0052 B**	**0.008 B**	--	--	**0.017 J**	**0.05**	< 0.020 U	< 0.020 U	< 0.020	< 0.0100	--	< 0.010	< 0.01	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0027 B**	**0.0012 B**	**0.0018 B**	0.02 U	0.02 U
Cyanide	0.2	mg/L	**0.2**	**0.26**	**0.04**	**0.14**	**0.14**	**0.12**	**1.8**	**1.7**	**0.027**	--	< 0.010 U	< 0.010 U	0.0051 J	< 0.010	--	< 0.010	< 0.01	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron	*	mg/L	--	--	**11**	**9.6**	**15**	**15**	--	--	**39**	**66**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	0.015	mg/L	--	--	0.005 U	0.005 U	**0.004 B**	**0.0028 B**	--	--	0.027 U	**0.061**	< 0.010 U	< 0.0050 U	< 0.0050	< 0.0100	--	< 0.010	< 0.01	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	**0.0051**
Magnesium	*	mg/L	--	--	**28**	**19**	**24**	**22**	--	--	**31**	**34**	--	--	--	--	--	--	--	--	**14.1**	**15.9**	**18**	**18**	**17**	**17**	**17**	**20**	**20**	**19**
Manganese	*	mg/L	--	--	**1**	**3.1**	**3.6**	**4.1**	--	--	**0.88**	**1.2**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	0.002	mg/L	--	--	0.0002 U	0.0002 U	0.00020 U	0.00020 U	--	--	0.0002 U	**0.00014 B**	< 0.00020 U	0.000083 J	< 0.00020	< 0.00020	--	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	**0.00022**	**0.0011**	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	--	--	0.04 U	0.04 U	0.04 U	0.04 U	--	--	**0.02 J**	**0.053**	< 0.040 U	0.021 J	0.0043 J	< 0.0200	--	< 0.02	< 0.02	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 UJ	0.04 U	0.04 U	0.04 U	0.04 U	**0.0093 B**
Potassium	*	mg/L	--	--	**7.2**	**9.3**	**8.7**	**7.9**	--	--	**18**	**20**	--	--	--	--	--	--	--	--	5 U	**4.85**	**7.4**	**9.7**	**8.8**	**10**	**10**	**11**	**10**	**9.9**
Selenium	0.05	mg/L	--	--	0.01 U	0.01 U	0.01 U	0.01 U	--	--	0.01 U	**0.0051 B**	< 0.020 U	< 0.010 U	< 0.010	< 0.0200	--	< 0.02	< 0.02	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	**11**	**10**	**12**	**11**	--	--	**31**	**26**	--	--	--	--	--	--	--	--	**57.8**	**63.1**	**68**	**64**	**59**	**56**	**57**	**62**	**60**	**55**
Thallium	0.002	mg/L	--	--	0.002 U	0.002 UN	0.002 U	0.002 UW	--	--	0.002 U	0.002 UW	< 0.0010 U	< 0.0010 U	< 0.0010	< 1.00	--	< 1.00	< 0.001	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.002 UWN	0.002 UW	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	--	--	0.01 U	0.01 U	0.01 U	0.01 U	--	--	**0.047**	**0.12**	< 0.010 U	< 0.010 U	< 0.010	< 0.0100	--	< 0.010	< 0.01	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	--	--	0.02 U	0.02 U	**0.0076 B**	0.02 U	--	--	**0.046**	**0.12**	< 0.020 U	< 0.020 U	< 0.020	< 0.0200	--	< 0.02	< 0.02	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.03**	**0.014 B**	**0.0064 B**	**0.0066 B**	**0.0064 B**	**0.0086 B**

Notes:
-- - Not analyzed
* - Not a HSRA regulated compounds
B (Inorganics) - Estimated analyte concentration
Bold - analyte detected
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
RRS - Risk Reduction Standard
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-3
Summary of Historical Ground Water Sampling Data - Decommissioned Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Ga

Chemical Name	Type 1 Risk Reduction Standard	Location ID / Sample Date / Unit	MW-23																
			7/22/2009	01/13/2009	07/15/2008	1/9/2008	7/11/2007	2/13/2007	7/12/2006	1/10/2006	7/21/2005	1/19/2005	7/14/2004	1/24/2004	7/20/2003	1/16/2003	7/17/2002	1/18/2002	7/10/2001
			Post-ISCO								Pre-ISCO								
Volatile Organic Compounds																			
Acetone	4,000	µg/L	< 100	< 100	< 100	< 50	< 50	< 50	50 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	**21 J**	25 U
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**27**	1.0 U	1.0 U
Carbon Disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**130**	1.0 U	1.0 U
Methylene Chloride	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.8**	1.0 U	1.0 U
Trichloroethylene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**66**	2.0 U	2.0 U
Semivolatile Organic Compounds																			
2-Methylnaphthalene	*	µg/L	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	**0.78 J**	10 U	10 U
Acenaphthene	2,000	µg/L	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	**0.63 J**	10 U	10 U
Acenaphthylene	10	µg/L	< 0.19	**0.021 J**	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 0.19	**0.056 J**	**0.093 J**	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.1	µg/L	< 0.19	< 0.20	**0.026 J**	<0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.19	< 0.20	< 0.19	<0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 0.19	< 0.20	< 0.19	<0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.19	< 0.20	**0.037 J**	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.2	µg/L	< 0.19	< 0.20	< 0.19	<0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.19	< 0.20	**0.028 J**	<0.10	< 0.1	< 0.1	0.1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1,000	µg/L	< 0.19	**0.027 J**	**0.053 J**	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1,000	µg/L	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.19	< 0.20	**0.024 J**	<0.050	< 0.05	< 0.05	0.05 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 0.19	**16**	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	**5.9 J**	10 U	10 U
Phenanthrene	10	µg/L	< 0.19	< 0.20	< 0.19	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Pyrene	1,000	µg/L	< 0.19	< 0.20	**0.032 J**	< 10	< 10	< 10	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds																			
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.060 B**	**0.038 B**	0.2 U	0.2 U	
Antimony	0.01	mg/L	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	< 0.020	< 0.010	< 0.010	<0.0500	< 0.05	< 0.05	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	0.052	0.075	**0.044**	**0.0515**	**0.0280**	**0.0307**	**0.0312**	0.2 U	**0.0332**	**0.036**	**0.034**	**0.043**	0.01 U	**0.049**	**0.092**	**0.19**	**0.14**
Beryllium	0.004	mg/L	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.01	0.01 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.004 U	**0.00066 B**	0.004 U
Cadmium	0.005	mg/L	< 0.0050	**0.0038 J**	< 0.0050	< 0.0050	< 0.005	< 0.005	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	**10.1**	**10.1**	**13**	**13**	**16**	**14**	**21**	**32**	**50**	**44**
Chromium	0.1	mg/L	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.01	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	--	--	--	--	--	--	--	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	**0.0016 B**	0.01 U
Copper	1.3	mg/L	< 0.020	**0.0033 J**	< 0.020	< 0.0100	< 0.010	< 0.01	0.01 U	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0010 B**	**0.0022 B**	**0.0011 B**	**0.00094 B**
Cyanide	0.2	mg/L	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.010 U	0.01 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.010	**0.0033 J**	< 0.0050	< 0.0100	< 0.010	< 0.01	0.01 U	0.003 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	**9.43**	**9.04**	**12**	**12**	**14**	**12**	**20**	**29**	**47**	**42**
Mercury	0.002	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.0002	< 0.0002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	< 0.040	< 0.040	< 0.040	< 0.0200	< 0.02	< 0.02	0.02 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.040 U	0.04 U	0.04 U	**0.0083 B**
Potassium	*	mg/L	--	--	--	--	--	--	--	5 U	1 U	1 U	1 U	1 U	**0.7**	**0.71 B**	**0.87 B**	**1.3 N**	**0.93 B**
Selenium	0.05	mg/L	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02	0.02 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	**72.4**	**73.7**	**95**	**95**	**110**	**110**	**160**	**270**	**380**	**330**
Thallium	0.002	mg/L	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 0.001	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.0020 UWN	0.002 UWN	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.01	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	0.022	0.049	< 0.020	< 0.0200	< 0.02	< 0.02	0.02 U	0.02 U	**0.0314**	0.02 U	0.02 U	0.02 U	0.02 U	0.020 U	0.02 U	**0.0087 B**	0.02 U

Notes:

-- - Not analyzed
* - Not a HSRA regulated compound
B (Inorganics) - Estimated analyte concentration
Bold - analyte detected
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
H - Holding time exceeded
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
R - Sample data results rejected due to deficiencies in the ability to meet quality control standards
RRS - Risk Reduction Standard
<, U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-3
Summary of Historical Ground Water Sampling Data - Decommissioned Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Ga

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-201	MW-202					MW-208		MW-209	MW-210
		Sample Date	7/9/2002	1/16/2003	7/12/2002	1/17/2002	7/11/2001	1/17/2001	7/11/2001	1/16/2001	4/3/2002	10/5/2006
		Unit	Pre-ISCO	Pre-ISCO					Pre-ISCO		Pre-ISCO	Post-ISCO
Volatile Organic Compounds												
Acetone	4	mg/L	0.025 U	0.025 U	0.025 U	0.025 U	**0.023 J**	0.025 U	0.025 U	0.025 UJ	--	50 U
Benzene	0.005	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	**0.00025 J**	0.001 U	**0.0017**	**0.0012**	0.001 U	5 U
Carbon Disulfide	4	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	**0.00094 J**	0.001 U	**0.00046 J**	**0.00045 J**	--	5 U
Dichloromethane	0.005	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.00035 J**	0.005 U	0.005 U	5 U
Ethylbenzene	0.7	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	**0.00011 J**	0.001 U	0.001 U	5 U
Toluene	1	mg/L	0.001 U	0.001 U	**0.00051 J**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	5 U
Trichloroethylene	0.005	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	**0.00032 J**	0.001 U	0.001 U	5 U
Xylenes, total	2	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	--	5 U
Semivolatile Organic Compounds												
2-Methylnaphthalene	*	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	--
Acenaphthene	2	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	10 U
Acenaphthylene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	10 U
Anthracene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	10 U
Benz(a)anthracene	0.0001	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
Benzo(a)pyrene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
Benzo(b)fluoranthene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U
Benzo(g,h,i)perylene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	10 U
Benzo(k)fluoranthene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	10 U
Chrysene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
Dibenzo(a,h)anthracene	0.003	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U
Dibenzofuran	0.001	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	--
Fluoranthene	1	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	10 U
Fluorene	1	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	10 U
Indeno(1,2,3-cd)pyrene	0.0004	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
Naphthalene	0.02	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	10 U
Phenanthrene	*	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	10 U
Pyrene	1	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	10 U
Inorganic Compounds												
Aluminum (fume or dust)	*	mg/L	**0.042 J**	**0.050 B**	**0.037 B**	**0.12 B**	0.2 U	0.2 U	**0.17 B**	**19**	--	--
Antimony	0.01	mg/L	0.02 U	0.020 U	0.02 U	0.02 U	0.02 U	**0.005 B**	0.02 U	**0.013 J**	--	0.02 U
Arsenic	0.05	mg/L	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.024**	**0.033**	--	0.05 U
Barium	2	mg/L	**0.084**	**0.064**	**0.11**	**0.13**	**0.13**	**0.12**	**0.21**	**0.3**	--	**0.0474**
Beryllium	0.004	mg/L	0.004 U	0.0040 U	0.004 U	**0.00077 B**	**0.00058 B**	**0.002 B**	0.004 U	0.0018 U	--	0.01 U
Cadmium	0.005	mg/L	0.0011 U	0.0050 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.0011 B**	0.005 U	--	0.005 U
Calcium metal	*	mg/L	**49**	**38**	**52**	**64**	**59**	**60**	**11**	**10**	--	--
Chromium	0.1	mg/L	0.01 U	0.010 U	0.01 U	0.01 U	0.01 UN	0.01 U	0.01 UN	**0.025**	--	0.01 U
Cobalt	*	mg/L	**0.0099 J**	**0.0069 B**	**0.01**	**0.015**	**0.012**	**0.014**	**0.0014 B**	**0.0038 J**	--	--
Copper	1.3	mg/L	0.0016 U	0.020 U	**0.0012 B**	0.02 U	0.02 UN	0.02 U	**0.0021 BN**	**0.064**	--	0.01 U
Cyanide	0.2	mg/L	**0.12**	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U
Iron	*	mg/L	**0.28**	**0.019 B**	**0.076**	**0.13**	0.05 U	**0.043 B**	**85**	**100**	--	--
Lead	0.015	mg/L	0.005 U	0.0050 U	0.005 U	0.005 U	0.005 U	**0.0035 B**	**0.0041 B**	**0.099**	--	0.01 U
Magnesium	*	mg/L	**39**	**32**	**44**	**56**	**52**	**53**	**17**	**17**	--	--
Manganese	*	mg/L	**1.5**	**0.45**	**1.2**	**1.9 N**	**1.6 N**	**1.7**	**0.9 N**	**0.98**	--	--
Mercury	0.002	mg/L	0.0002 U	**0.000078 B**	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U	0.00020 U	--	0.0002 U
Nickel	0.1	mg/L	**0.0049 J**	0.040 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	**0.0097 J**	--	0.02 U
Potassium	*	mg/L	**1.1**	**1.0**	**1.4**	**1.7 N**	**1.6**	**1.6**	**2.0**	**2.6**	--	--
Selenium	0.05	mg/L	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.02 U
Sodium	*	mg/L	**100**	**100**	**18**	**150**	**170**	**120**	**44**	**44**	--	--
Thallium	0.002	mg/L	0.002 UJ	0.0020 UWN	0.002 UWN	0.002 U	0.002 UW	0.002 U	0.002 U	0.002 U	--	0.001 U
Vanadium (fume or dust)	0.2	mg/L	0.01 U	**0.0028 B**	**0.0033 B**	**0.003 B**	**0.0026 B**	0.01 U	0.01 U	**0.041**	--	0.01 U
Zinc	2	mg/L	**0.018 J**	0.020 U	**0.0086 B**	**0.017 B**	**0.017 B**	**0.0095 B**	**0.023**	**0.069**	--	0.02 U

Notes:

-- - Not analyzed
* - Not a HSRA regulated compounds
B (Inorganics) - Estimated analyte concentration
Bold - analyte detected
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
RRS - Risk Reduction Standard
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-3
Summary of Historical Ground Water Sampling Data - Decommissioned Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Ga

Chemical Name	Type 1 Risk Reduction Standard	Location ID / Sample Date / Unit	MW-212						MW-213	MW-301D	MW-301S								MW-308SAP
			7/22/2005	1/16/2003	7/12/2002	1/16/2002	7/13/2001	1/18/2001	4/4/2002	7/19/2003	1/20/2003	1/20/2003	7/17/2002	7/17/2002	4/4/2002	1/17/2002	1/17/2002	7/17/2001	1/17/2001	1/19/2001
			Pre-ISCO						Pre-ISCO	Pre-ISCO	Pre-ISCO									Pre-ISCO
Volatile Organic Compounds																				
Acetone	4	mg/L	0.025 U	**0.016 J**	0.025 U	0.025 U	0.025 U	0.025 U	--	0.63 U	**0.074 J**	**0.11 J**	0.12 U	0.12 U	--	**0.12 R**	**0.12 R**	0.12 U	0.12 U	5 U
Benzene	0.005	mg/L	0.001 U	**0.00014 J**	0.001 U	0.001 U	0.001 U	**0.00012 J**	0.001 U	--	**0.071**	**0.076**	**0.074**	**0.099**	**0.05**	**0.051**	**0.056**	**0.075**	**0.057**	**33**
Carbon Disulfide	4	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	--	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.2 U
Dichloromethane	0.005	mg/L	0.005 U	**0.00033 J**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.13 U	**0.0021 J**	**0.0026 J**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	1 U
Ethylbenzene	0.7	mg/L	0.001 U	**0.00011 J**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	--	**0.54**	**0.65**	**0.88**	**0.71 D**	**0.48**	**0.41**	**0.42**	**0.53**	**0.54**	**0.68**
Toluene	1	mg/L	0.001 U	**0.00041 J**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	--	**0.0049 J**	**0.0064**	**0.0068**	**0.0069**	**0.011**	**0.0041 J**	0.005 U	**0.014**	**0.015**	**14**
Trichloroethylene	0.005	mg/L	0.001 U	**0.00017 J**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.0046 J**	0.005 U	0.005 U	0.2 U
Xylenes, total	2	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	--	--	**0.15 B**	**0.2 B**	**0.27**	**0.31**	--	**0.14**	**0.15**	**0.28**	**0.3**	**4.6**
Semivolatile Organic Compounds																				
2-Methylnaphthalene	*	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	**0.46 J M**	**0.32 D**	**0.32 D**	**0.47 D**	**0.49 D**	--	**0.44**	**0.5**	**0.38**	**0.81 D**	**0.69 D**
Acenaphthene	2	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.014**	**0.079**	**0.086**	**0.093**	**0.1**	**0.077**	**0.083 J**	**0.1**	**0.085**	**0.14**	**0.012**
Acenaphthylene	0.0002	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.00081 J**	**0.13**	**0.0035 J**	**0.0031 J**	**0.0047 J**	**0.0048 J**	0.01 U	**0.012 J**	**0.0097 J**	**0.0073 J**	**0.036**	**0.18**
Anthracene	0.0002	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0046 J**	**0.0055 J**	**0.0071 J**	**0.0074 J**	**0.0049 J**	**0.0064 J**	**0.0061 J**	**0.0036 J**	**0.0081 J**	**0.0038 J**
Benz(a)anthracene	0.0001	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.1 U	0.05 U	0.01 U	0.01 U
Benzo(a)pyrene	0.0002	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.1 U	0.05 U	0.01 U	0.01 U
Benzo(b)fluoranthene	0.0002	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.1 U	0.05 U	0.01 U	0.01 U
Benzo(g,h,i)perylene	0.0002	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.1 U	0.05 U	0.01 U	0.01 U
Benzo(k)fluoranthene	0.0002	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.1 U	0.05 U	0.01 U	0.01 U
Chrysene	0.0002	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.1 U	0.05 U	0.01 U	0.01 U
Dibenzo(a,h)anthracene	0.003	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.1 U	0.05 U	0.01 U	0.01 U
Dibenzofuran	0.001	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	**0.0043 J**	**0.0048 J**	**0.0054 J**	**0.006 J**	--	**0.0054 J**	**0.0064 J**	**0.0045 J**	**0.0092 J**	**0.0072 J**
Fluoranthene	1	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.002 J**	**0.0024 J**	**0.0026 J**	**0.0028 J**	**0.0014 J**	**0.004 J**	0.1 U	0.05 U	**0.0033 J**	**0.0017 J**
Fluorene	1	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.024**	**0.025**	**0.028**	**0.033**	**0.036**	**0.02**	**0.028 J**	**0.028 J**	**0.025 J**	**0.041**	**0.031**
Indeno(1,2,3-cd)pyrene	0.0004	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.1 U	0.1 U	0.05 U	0.01 U	0.01 U
Naphthalene	0.02	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0059 J**	**7.3 J M**	**1.3 D**	**1.3 D**	**2 D**	**1.9 D**	**1.4 D**	**1.6**	**1.6 D**	**1.6 D**	**3.3 D**	**6.4 D**
Phenanthrene	*	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0012 J**	**0.021**	**0.029**	**0.032**	**0.035**	**0.038**	**0.023**	**0.039 J**	**0.04 J**	**0.028 J**	**0.05**	**0.026**
Pyrene	1	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0025 J**	**0.003 J**	**0.0027 J**	**0.0032 J**	**0.0022 J**	**0.007 J**	0.1 U	0.05 U	**0.0043 J**	**0.0018 J**
Inorganic Compounds																				
Aluminum (fume or dust)	*	mg/L	**1.99**	**0.046 B**	**0.031 B**	**0.096 B**	**0.063 B**	**0.046 B**	--	**0.5**	0.2 U	0.2 U	**0.045 B**	**0.043 B**	--	0.2 U	0.2 U	**0.047 BN**	**0.48**	**0.1 B**
Antimony	0.01	mg/L	0.006 U	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U	--	--	0.02 U	0.02 U	0.02 U	0.02 U	--	0.02 U	0.02 U	0.02 U	**0.011 B**	0.02 U
Arsenic	0.05	mg/L	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	--	--	0.01 U	0.01 U	**0.0079 B**	**0.0062 B**	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.0685**	**0.25**	**0.26**	**0.32**	**0.3**	**0.29**	--	**0.39**	**0.32**	**0.29**	**0.36**	**0.35**	--	**0.31**	**0.32**	**0.35**	**0.38**	**0.37**
Beryllium	0.004	mg/L	0.004 U	0.0040 U	0.004 U	0.004 U	0.004 U	0.004 U	--	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	--	0.00077 U	0.00073 U	0.004 U	**0.0015 B**	0.004 U
Cadmium	0.005	mg/L	0.005 U	**0.0010 B**	**0.0012 B**	**0.00074 B**	0.005 U	0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	**40.2**	**12**	**12**	**16**	**14**	**14**	--	**37**	**78**	**75**	**74**	**73**	--	**87**	**85**	**84**	**95**	**22**
Chromium	0.1	mg/L	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	0.01 U	**0.0046 B**	**0.0054 B**	**0.0072 B**	**0.0067 B**	**0.0064 B**	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U	**0.0028 B**
Copper	1.3	mg/L	0.02 U	**0.0018 B**	**0.0011 B**	**0.0041 B**	0.02 U	**0.002 B**	--	0.02 U	**0.0014 B**	**0.0013 B**	**0.0014 B**	**0.0014 B**	--	0.02 U	0.02 U	0.02 U	**0.0025 B**	**0.0016 B**
Cyanide	0.2	mg/L	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.015 U	0.01 U	**0.0052 B**	0.01 U	0.01 U	--	**0.0062 B**	**0.0051 B**	0.01 U	0.01 U	0.01 U
Iron	*	mg/L	**1.89**	**0.91**	**0.76**	**1.3**	**0.91**	**1.1**	--	**31**	**41**	**38**	**46**	**46**	--	**37**	**38**	**36**	**34**	**10 N**
Lead	0.015	mg/L	**0.0389**	0.0050 U	0.005 U	0.005 U	0.005 U	0.005 U	--	**0.007**	0.005 U	0.005 U	0.005 U	0.005 U	--	0.005 U	0.005 U	0.005 U	**0.0027 B**	0.005 U
Magnesium	*	mg/L	**4.18**	**7.1**	**6.9**	**9**	**8.5**	**8.2**	--	**27**	**40**	**37**	**45**	**45**	--	**37**	**38 J**	**33**	**34**	**11**
Manganese	*	mg/L	**0.274**	**0.86**	**0.89**	**1.3**	**1.1**	**1.1**	--	**2.8**	**5**	**4.7**	**5.9**	**5.9**	--	4.4 U	**4.6 N**	**4.8**	**5.0**	**1.1**
Mercury	0.002	mg/L	0.0002 U	0.00020 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	--	0.0002 U	**0.00013 B**	**0.00012 B**	0.0002 U	0.0002 U	--	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.00020 U
Nickel	0.1	mg/L	0.04 U	0.040 U	0.04 U	0.04 U	0.04 U	0.04 U	--	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	--	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	**23.4**	**2.4**	**2.4**	**2.5**	**2.4**	**2.4**	--	**3.6**	**13**	**12**	**13**	**13**	--	14 U	**14 J**	**14**	**15**	**2.3**
Selenium	0.05	mg/L	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	**16.4**	**15**	**14**	**16**	**16**	**15**	--	**46**	**13**	**12**	**13**	**13**	--	**12**	**12**	**12**	**10**	**23**
Thallium	0.002	mg/L	0.001 U	0.0020 UWN	0.002 UWN	0.002 U	0.002 UW	0.002 U	--	0.002 U	0.002 UWN	0.002 UWN	0.002 UWN	0.002 UWN	--	0.002 U	0.002 U	0.002 UN	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.0028 U	0.0032 U	0.01 U	**0.0027 B**	0.01 U
Zinc	2	mg/L	**0.0564**	**0.084**	**0.093**	**0.057**	0.02 U	**0.019 B**	--	**0.04**	0.02 U	0.02 U	0.02 U	0.02 U	--	0.02 U	0.02 U	0.02 U	**0.011 B**	0.02 U

Notes:

-- - Not analyzed
* - Not a HSRA regulated compounds
B (Inorganics) - Estimated analyte concentration
Bold - analyte detected
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
RRS - Risk Reduction Standard
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-3
Summary of Historical Ground Water Sampling Data - Decommissioned Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Ga

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-405D								MW-407D											
		Sample Date	7/16/2004	1/24/2004	7/19/2003	1/17/2003	7/16/2002	1/16/2002	7/16/2001	1/23/2001	1/15/2006	7/20/2005	2/7/2005	7/13/2004	1/22/2004	7/20/2003	1/17/2003	7/16/2002	7/02 DUP	1/15/2002	7/17/2001	1/19/2001
		Unit	Pre-ISCO								Post-ISCO	Pre-ISCO										
Volatile Organic Compounds																						
Acetone	4	mg/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Benzene	0.005	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	1.0 U	1.0 U	1.0 U	**1.6**	**1.7**	1.0 U	**1.9**	**3.3**	1.0 U	**2.7**	**1.8**	**0.38 J**
Carbon Disulfide	4	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichloromethane	0.005	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	0.7	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.12 J**	**0.25 J**	1.0 U	**0.2 J**	1.0 U	1.0 U
Toluene	1	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.41 J**	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	0.005	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, total	2	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**1.6 J**	**2.2**	2.0 U	**2.4**	**1.6 J**	**0.65 J**
Semivolatile Organic Compounds																						
2-Methylnaphthalene	*	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.44**	**0.51**	**0.92**	**5.4**	**4.4**	**11**	**0.39 J**	**1.8 J**	10 U	**4.2 J**	**1.1 J**	10 U
Acenaphthene	2	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.2 U	**2.2**	**3.5**	**12**	**15**	**18**	**8.9 J**	**13**	10 U	**8.5 J**	**2.7 J**	10 U
Acenaphthylene	0.0002	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	0.0002	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benz(a)anthracene	0.0001	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	0.0002	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	0.0002	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	0.0002	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	0.0002	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.0002	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.003	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	0.001	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	1	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.2 U	0.2 U	**0.28**	**0.83**	**1.2**	10 U	**0.82 J**	**1.2 J**	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.0004	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	0.02	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.21**	**0.66**	**0.23**	**17**	**16**	**47**	10 U	**0.95 J**	10 U	**11**	**4.8 J**	**1.2 J**
Phenanthrene	*	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.2 U	0.2 U	0.2 U	**0.8**	**0.73**	10 U	**0.5 J**	**0.65 J**	10 U	10 U	10 U	10 U
Pyrene	1	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Inorganic Compounds																						
Aluminum (fume or dust)	*	mg/L	**11**	**0.33**	**7.6**	**4.5**	**1.9**	**2.1 N**	**1.2**	**1.1**	**3.46**	**1.25**	**3.9**	**1.5**	**0.32**	**0.7**	**0.21**	**0.51**	**1.3**	**0.63 N**	**0.37 N**	**0.29**
Antimony	0.01	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U	0.01 U	0.006 U	0.02 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0034 B**	0.01 U	0.010 U	**0.0052 B**	**0.0053 B**
Barium	2	mg/L	**0.21**	**0.22**	**0.25**	**0.29**	**0.27**	**0.25**	**0.23**	**0.25**	**0.544**	**0.45**	**0.76**	**0.56**	**0.36**	**0.38**	**0.54**	**0.42**	**0.27**	**0.45**	**0.5**	**0.82**
Beryllium	0.004	mg/L	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.004 U	0.004 U	0.005 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	0.005 U	0.005 U	0.005 U	**0.0031 B**	0.005 U	0.0050 U	0.005 U	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.0009 B**	0.005 U	0.005 U	0.0050 U	**0.00088 B**	**0.0032 B**
Calcium metal	*	mg/L	**16**	**21**	**21**	**22**	**20**	**21**	**19**	**16**	**48.6**	**45.1**	**58**	**45**	**35**	**36**	**51**	**38**	**20**	**42**	**53**	**82**
Chromium	0.1	mg/L	**0.011**	0.01 U	**0.01**	**0.0058 B**	**0.0021 B**	**0.0030 B**	0.01 U	0.01 U	**0.0053**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	**0.0017 B**
Cobalt	*	mg/L	**0.011**	**0.011**	**0.02**	**0.017**	**0.015**	**0.015**	**0.014**	**0.014**	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0047 B**	**0.0036 B**	**0.014**	**0.0030 B**	**0.0027 B**	**0.0047 B**
Copper	1.3	mg/L	0.02 U	0.02 U	0.02 U	**0.0074 B**	**0.0047 B**	**0.0010 B**	**0.0026 B**	**0.0023 B**	0.025 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0037 B**	**0.0022 B**	**0.0027 B**	**0.0018 B**	0.02 U	**0.0018 B**
Cyanide	0.2	mg/L	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U
Iron	*	mg/L	**11**	**0.38**	**16**	**5.6**	**2.5**	**3.1 N**	**1.8**	**2.4**	--	--	--	--	--	--	--	--	--	--	--	--
Lead	0.015	mg/L	0.005 U	0.005 U	**0.02**	**0.0031 B**	**0.0018 B**	**0.0017 B**	0.005 U	0.005 U	**0.0073**	0.005 U	**0.013**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	0.005 U
Magnesium	*	mg/L	**15**	**19**	**19**	**20**	**17**	**18**	**16**	**13**	**43.3**	**35.8**	**37**	**23**	**17**	**18**	**25**	**19**	**17**	**21**	**28**	**43**
Manganese	*	mg/L	**0.53**	**0.77**	**0.79**	**0.95**	**0.9**	**1.1**	**1.0**	**1.0**	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	0.002	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U	0.00020 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	0.04 U	0.04 U	0.04 U	**0.01 B**	**0.008 B**	**0.0080 B**	**0.0065 B**	**0.0051 B**	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	**0.0078 B**	0.040 U	0.04 U	0.04 U
Potassium	*	mg/L	**2.3**	**2.7**	**3.4**	**3**	**3.2**	**3.4**	**3.6**	**5.3**	**21.7**	**17.7**	**20**	**6.8**	**5.1**	**7**	**8.1**	**6.8**	**3**	**7.0**	**13**	**17**
Selenium	0.05	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U
Sodium	*	mg/L	**56**	**35**	**37**	**38**	**35**	**37**	**36**	**38**	**323**	**286**	**54**	**79**	**55**	**70**	**97**	**73**	**35**	**81**	**150**	**180**
Thallium	0.002	mg/L	0.002 U	0.001 U	0.002 U	0.002 U	0.002 UW	0.0020 U	0.002 U	0.002 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.002 U	0.002 UW	0.002 UW	0.0020 U	0.002 UN	0.002 U
Vanadium (fume or dust)	0.2	mg/L	**0.028**	0.01 U	**0.03**	**0.013**	**0.0057 B**	**0.0067 B**	**0.0038 B**	**0.0035 B**	**0.0082**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0037 B**	0.010 U	0.01 U	0.01 U
Zinc	2	mg/L	**0.027**	**0.03**	**0.07**	**0.19**	**0.019 B**	**0.070**	**0.021**	**0.019 B**	**0.0216**	0.02 U	**0.044**	0.02 U	0.02 U	**0.03**	**0.033**	**0.0063 B**	**0.017 B**	**0.026**	0.02 U	**0.012 B**

Notes:

-- - Not analyzed
* - Not a HSRA regulated compounds
B (Inorganics) - Estimated analyte concentration
Bold - analyte detected
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
RRS - Risk Reduction Standard
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-3
Summary of Historical Ground Water Sampling Data - Decommissioned Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Ga

Chemical Name	Type 1 Risk Reduction Standard	Location ID	TLC-01D			TLC-01S		TLC-02S					
		Sample Date	1/18/2002	7/18/2001	1/23/2001	1/18/2002	1/23/2001	4/4/2002	3/8/2002	3/8/2002	1/18/2002	7/17/2001	1/23/2001
		Sample ID	TLC01D-011802	TLC01D-071801	TLC01D 012301	TLC01S-011802	TLC01S 012301	TLC02S-040402	TLC2S-030802	TLC2S-030802 SOLUBLE	TLC02S-011802	TLC02S-071701	TLC02S 012301
		Unit											
Volatile Organic Compounds													
Acetone	4	mg/L	0.5 U	**0.5 R**	0.25 U	**0.032**	**0.035**	--	**3.8**	--	5 U	0.62 U	2.5 U
Benzene	0.005	mg/L	**1.8**	**2**	**1.8**	**0.099**	**0.00036 JB**	**20**	**9.8**	--	**21**	**25 D**	**21**
Carbon Disulfide	4	mg/L	0.02 U	0.02 U	0.01 U	0.001 U	0.001 U	--	0.05 U	--	0.2 U	0.025 U	0.1 U
Dichloromethane	0.005	mg/L	0.1 U	0.1 U	0.05 U	0.005 U	0.005 U	1 U	0.25 U	--	1 U	0.12 U	0.5 U
Ethylbenzene	0.7	mg/L	**0.46**	**0.24**	**0.24**	**0.012**	**0.00033 J**	**1.4**	**0.52**	--	**0.86**	**1.4**	**1.2**
Toluene	1	mg/L	**0.26**	**0.21**	**0.46**	**0.016**	**0.0004 J**	0.2 U	0.05 U	--	0.2 U	**0.041**	0.1 U
Trichloroethylene	0.005	mg/L	0.02 U	0.02 U	0.01 U	0.001 U	0.001 U	0.2 U	0.05 U	--	0.2 U	**0.012 J**	0.1 U
Xylenes, total	2	mg/L	**0.39**	**0.24**	**0.25**	**0.012**	**0.00061 J**	--	**0.36**	--	**0.57**	**1.3**	**0.93**
Semivolatile Organic Compounds													
2-Methylnaphthalene	*	mg/L	**0.19 DJ**	**0.081**	**0.09**	--	**0.00041 J**	--	**1.5**	--	**0.77 DJ**	**0.94**	0.01 U
Acenaphthene	2	mg/L	**0.055**	**0.021 J**	**0.015**	--	**0.00081 J**	**0.17 J**	**0.22**	--	**0.069**	**0.092**	0.01 U
Acenaphthylene	0.0002	mg/L	**0.015**	**0.0098 J**	**0.028**	--	0.01 U	0.25 U	**0.014 J**	--	0.01 U	0.05 U	0.01 U
Anthracene	0.0002	mg/L	**0.0044 J**	**0.002 J**	**0.0019 J**	--	0.01 U	**0.018 J**	**0.076 J**	--	**0.0079 J**	**0.0078 J**	0.01 U
Benz(a)anthracene	0.0001	mg/L	**0.00051 J**	0.05 U	0.01 U	--	0.01 U	0.25 U	**0.024 J**	--	**0.00062 J**	0.05 U	0.01 U
Benzo(a)pyrene	0.0002	mg/L	0.01 U	0.05 U	0.01 U	--	0.01 U	0.25 U	**0.014 J**	--	0.01 U	0.05 U	0.01 U
Benzo(b)fluoranthene	0.0002	mg/L	0.01 U	0.05 U	0.01 U	--	0.01 U	0.25 U	**0.011 J**	--	0.01 U	0.05 U	0.01 U
Benzo(g,h,i)perylene	0.0002	mg/L	0.01 U	0.05 UJ	0.01 U	--	0.01 U	0.25 U	**0.01 J**	--	0.01 U	0.05 U	0.01 U
Benzo(k)fluoranthene	0.0002	mg/L	0.01 U	0.05 U	0.01 U	--	0.01 U	0.25 U	**0.0086 J**	--	0.01 U	0.05 U	0.01 U
Chrysene	0.0002	mg/L	0.01 U	0.05 U	0.01 U	--	0.01 U	0.25 U	**0.016 J**	--	0.01 U	0.05 U	0.01 U
Dibenzo(a,h)anthracene	0.003	mg/L	0.01 U	0.05 UJ	0.01 U	--	0.01 U	0.25 U	0.1 U	--	0.01 U	0.05 U	0.01 U
Dibenzofuran	0.001	mg/L	**0.0056 J**	**0.0024 J**	**0.003 J**	--	0.01 U	--	**0.052 J**	--	**0.017**	**0.021 J**	0.01 U
Fluoranthene	1	mg/L	**0.0032 J**	0.05 U	0.01 U	--	0.01 U	0.25 U	**0.055 J**	--	**0.0024 J**	**0.0023 J**	0.01 U
Fluorene	1	mg/L	**0.026**	**0.01 J**	**0.011**	--	0.01 U	**0.074 J**	**0.11**	--	**0.029**	**0.039 J**	0.01 U
Indeno(1,2,3-cd)pyrene	0.0004	mg/L	0.01 U	0.05 UJ	0.01 U	--	0.01 U	0.25 U	**0.014 J**	--	0.01 U	0.05 U	0.01 U
Naphthalene	0.02	mg/L	**1.7 D**	**0.67**	**1.1 D**	--	**0.0056 J**	**11 D**	**13 D**	--	**9.5 D**	**12 D**	0.01 U
Phenanthrene	*	mg/L	**0.026**	**0.01 J**	**0.012**	--	0.01 U	**0.067 J**	**0.2**	--	**0.028**	**0.031 J**	0.01 U
Pyrene	1	mg/L	**0.0038 J**	0.05 U	**0.0019 J**	--	0.01 U	**0.014 J**	**0.045 J**	--	**0.0028 J**	0.05 U	0.01 U
Inorganic Compounds													
Aluminum (fume or dust)	*	mg/L	--	**1.1**	**2.5 N**	--	**1.1 N**	--	--	--	**0.039 B**	**0.06 BN**	**0.44 N**
Antimony	0.01	mg/L	--	0.02 U	0.02 U	--	0.02 U	--	--	--	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	--	0.01 U	**0.0033 B**	--	0.01 U	--	--	--	0.01 U	**0.0065 B**	**0.0035 B**
Barium	2	mg/L	--	**0.31**	**0.36**	--	**0.38**	--	--	--	**0.67**	**0.56**	**0.63**
Beryllium	0.004	mg/L	--	0.004 U	0.004 U	--	0.004 U	--	--	--	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	--	0.005 U	**0.0022 B**	--	**0.0015 B**	--	--	--	0.005 U	0.005 U	**0.00078 B**
Calcium metal	*	mg/L	--	**18**	**17**	--	**18**	--	--	--	**200**	**170**	**200**
Chromium	0.1	mg/L	--	**0.0023 J**	**0.0074 B**	--	**0.0021 B**	--	--	--	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	--	**0.004 J**	**0.0057 B**	--	**0.0078 B**	--	--	--	**0.0052 B**	**0.0042 B**	**0.0063 B**
Copper	1.3	mg/L	--	0.0012 U	**0.022**	--	**0.0060 B**	--	--	--	**0.002 B**	**0.0017 B**	**0.0038 B**
Cyanide	0.2	mg/L	--	**0.026**	**0.028**	--	**0.045**	--	**1.5**	**1.4**	**1.4**	**1.3**	**0.77**
Iron	*	mg/L	--	**55**	**71**	--	**49**	--	--	--	**20**	**20**	**23**
Lead	0.015	mg/L	--	0.005 U	**0.0024 B**	--	**0.0022 B**	--	--	--	0.005 U	0.005 U	**0.0025 B**
Magnesium	*	mg/L	--	**20**	**19**	--	**26**	--	--	--	**25**	**22**	**26**
Manganese	*	mg/L	--	**0.92**	**1.0**	--	**1.9**	--	--	--	**1.6**	**1.6**	**1.8**
Mercury	0.002	mg/L	--	0.0002 U	0.00020 U	--	0.00020 U	--	--	--	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	--	0.04 U	**0.019 B**	--	**0.013 B**	--	--	--	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	--	**3.5**	**2.8**	--	**3.5**	--	--	--	**10**	**9.7**	**9.4**
Selenium	0.05	mg/L	--	0.01 U	0.01 U	--	0.01 U	--	--	--	**0.0058 B**	0.01 U	0.01 U
Sodium	*	mg/L	--	**55**	**52**	--	**21**	--	--	--	**16**	**14**	**17**
Thallium	0.002	mg/L	--	0.002 U	0.002 U	--	0.002 UW	--	--	--	0.002 UW	0.002 UN	0.002 UW
Vanadium (fume or dust)	0.2	mg/L	--	0.01 U	**0.0051 B**	--	0.01 U	--	--	--	**0.0031 B**	0.01 U	**0.0025 B**
Zinc	2	mg/L	--	**0.0086 J**	**0.015 B**	--	**0.0095 B**	--	--	--	0.02 U	0.02 U	0.02 U

Notes:
-- - Not analyzed
* - Not a HSRA regulated compounds
B (Inorganics) - Estimated analyte concentration
Bold - analyte detected
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
RRS - Risk Reduction Standard
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-3
Summary of Historical Ground Water Sampling Data - Decommissioned Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Ga

Chemical Name	Type 1 Risk Reduction Standard	Location ID	TLC-03D				TLC-03S				
		Sample Date	1/21/2002	1/21/2002	7/13/2001	1/23/2001	3/8/2002	3/8/2002	1/21/2002	7/13/2001	1/23/2001
		Sample ID	TLC03D-012102	TLC03SDUP-012102	TLC03D-071301	TLC03D 012301	TLC03S-030802 SOLUBLE	TLC3S-030802	TLC03S-012102	TLC03S-071301	TLC03S-012301
		Unit									
Volatile Organic Compounds											
Acetone	4	mg/L	**0.021 J**	0.025 U	0.025 U	0.025 U	--	0.025 U	0.025 U	0.025 U	0.025 U
Benzene	0.005	mg/L	**0.0006 J**	**0.1**	0.001 U	0.001 U	--	**0.19 D**	**0.12**	0.001 U	**0.012**
Carbon Disulfide	4	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	--	0.001 U	0.001 U	0.001 U	0.001 U
Dichloromethane	0.005	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	--	0.005 U	0.005 U	0.005 U	**0.0012 JB**
Ethylbenzene	0.7	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	--	0.001 U	0.001 U	0.001 U	**0.00013 J**
Toluene	1	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	--	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethylene	0.005	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	--	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes, total	2	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	--	0.002 U	0.002 U	0.002 U	0.002 U
Semivolatile Organic Compounds											
2-Methylnaphthalene	*	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U
Acenaphthene	2	mg/L	0.01 U	**0.024**	0.01 U	0.01 U	--	**0.021**	**0.025**	**0.019**	**0.025**
Acenaphthylene	0.0002	mg/L	0.01 U	**0.001 J**	0.01 U	0.01 U	--	**0.00098 J**	0.01 U	0.01 U	0.01 U
Anthracene	0.0002	mg/L	0.01 U	**0.00074 J**	0.01 U	0.01 U	--	0.01 U	**0.00085 J**	0.01 U	0.01 U
Benz(a)anthracene	0.0001	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	--	**0.00047 J**	**0.00041 J**	0.01 U	0.01 U
Benzo(a)pyrene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(b)fluoranthene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(g,h,i)perylene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(k)fluoranthene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U
Chrysene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U
Dibenzo(a,h)anthracene	0.003	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U
Dibenzofuran	0.001	mg/L	0.01 U	**0.00054 J**	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U
Fluoranthene	1	mg/L	0.01 U	**0.0022 J**	**0.00037 J**	0.01 U	--	**0.0021 J**	**0.0023 J**	**0.0013 J**	**0.0029 J**
Fluorene	1	mg/L	0.01 U	**0.011**	0.01 U	0.01 U	--	**0.006 J**	**0.012**	**0.0064 J**	**0.011**
Indeno(1,2,3-cd)pyrene	0.0004	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U
Naphthalene	0.02	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U
Phenanthrene	*	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U
Pyrene	1	mg/L	0.01 U	**0.002 J**	0.01 U	0.01 U	--	**0.0017 J**	**0.0021 J**	**0.0013 J**	**0.0025 J**
Inorganic Compounds											
Aluminum (fume or dust)	*	mg/L	0.031 U	0.2 U	**0.37**	**16 N**	--	--	0.2 U	**0.053 B**	**0.3**
Antimony	0.01	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	--	--	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	--	--	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.072**	**0.8**	**0.067**	**0.092**	--	--	**0.79**	**0.077**	**0.32**
Beryllium	0.004	mg/L	0.004 U	0.004 U	0.004 U	0.004 U	--	--	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	--	--	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	**53**	**120**	**53**	**53**	--	--	**120**	**100**	**100**
Chromium	0.1	mg/L	0.01 U	0.01 U	0.01 U	**0.016**	--	--	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	**0.0045 B**	**0.0019 B**	**0.0042 B**	**0.0071 B**	--	--	**0.0017 B**	**0.0017 B**	**0.002 B**
Copper	1.3	mg/L	0.0019 U	**0.0014 B**	0.02 U	**0.016 B**	--	--	**0.0016 B**	0.02 U	**0.00099 B**
Cyanide	0.2	mg/L	0.01 U	**0.37**	0.01 U	0.01 U	**0.55**	**0.63**	**0.31**	**0.11**	**0.064**
Iron	*	mg/L	**0.19**	**8.7**	**0.31**	**4.3**	--	--	**8.5**	**0.49**	**8.8**
Lead	0.015	mg/L	0.0024 U	**0.0024 B**	0.005 U	**0.0067**	--	--	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	**33**	**20**	**32**	**32**	--	--	**20**	**18**	**17**
Manganese	*	mg/L	**0.68**	**0.26**	**0.71**	**0.75**	--	--	**0.25**	**0.12**	**0.31**
Mercury	0.002	mg/L	0.0002 U	0.0002 U	0.0002 U	0.00020 U	--	--	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	0.04 U	0.04 U	0.04 U	**0.0087 B**	--	--	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	**19**	**5.3**	**19**	**19**	--	--	**5.2**	**3.1**	**4.1**
Selenium	0.05	mg/L	0.01 U	**0.005 B**	0.01 U	0.01 U	--	--	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	**80**	**13**	**80**	**81**	--	--	**13**	**15**	**12**
Thallium	0.002	mg/L	0.002 UJ	0.002 U	0.002 UW	0.002 U	--	--	0.002 U	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	0.01 U	0.01 U	0.01 U	**0.016**	--	--	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	**0.012 B**	**0.0072 B**	0.02 U	**0.017 B**	--	--	0.02 U	0.02 U	0.02 U

Notes:
-- - Not analyzed
* - Not a HSRA regulated compounds
B (Inorganics) - Estimated analyte concentration
Bold - analyte detected
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
RRS - Risk Reduction Standard
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-3
Summary of Historical Ground Water Sampling Data - Decommissioned Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Ga

Chemical Name	Type 1 Risk Reduction Standard	Location ID	TLC-04D							TLC-04S						
		Sample Date	7/18/2003	1/15/2003	7/15/2002	1/15/2002	7/12/2001	1/22/2001	1/22/2001	1/20/2004	7/18/2003	1/15/2003	7/15/2002	1/15/2002	7/12/2001	1/22/2001
		Sample ID	TLC-4D-Q3-03	TLC04D-011503	TLC04D-071502	TLC4D-011502	TLC04D-071201	010104D 012201	TLC04D 012201	TLC-4S-Q1-04	TLC-4S-Q3-03	TLC04S-011503	TLC04S-071502	TLC4S-011502	TLC04S-071201	TLC04S 012201
		Unit														
Volatile Organic Compounds																
Acetone	4	mg/L	0.025 U	0.025 U	0.025 U	0.025 U	0.25 U	0.025 U	0.12 U	0.5 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.12 U
Benzene	0.005	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	**0.0022 J**	0.001 U	0.005 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
Carbon Disulfide	4	mg/L	**0.004**	0.001 UJ	0.001 U	0.001 U	0.01 U	0.001 U	0.005 U	0.02 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.005 U
Dichloromethane	0.005	mg/L	0.005 U	0.005 UJ	**0.00043 J**	0.005 U	0.05 U	0.005 U	0.025 U	0.1 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.025 U
Ethylbenzene	0.7	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.005 U	0.02 U	0.001 U	0.001 U	**0.00019 J**	0.001 U	0.001 U	0.005 U
Toluene	1	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.005 U	0.02 U	0.001 U	0.001 U	**0.00055 J**	0.001 U	0.001 U	0.005 U
Trichloroethylene	0.005	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.005 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
Xylenes, total	2	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.02 U	0.002 U	0.01 U	0.04 U	0.002 U	0.002 U	**0.00036 J**	0.002 U	0.002 U	0.01 U
Semivolatile Organic Compounds																
2-Methylnaphthalene	*	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Acenaphthene	2	mg/L	0.01 U	**0.00039 J**	**0.00043 J**	0.01 U	**0.00046 J**	0.01 U	**0.00055 J**	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0015 J**
Acenaphthylene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	**0.00067 J**	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Anthracene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benz(a)anthracene	0.0001	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(a)pyrene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(b)fluoranthene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(g,h,i)perylene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(k)fluoranthene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chrysene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Dibenzo(a,h)anthracene	0.003	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Dibenzofuran	0.001	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.00029**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Fluoranthene	1	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Fluorene	1	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Indeno(1,2,3-cd)pyrene	0.0004	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Naphthalene	0.02	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Phenanthrene	*	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.00079 J**
Pyrene	1	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Inorganic Compounds																
Aluminum (fume or dust)	*	mg/L	**2.6**	**2.7**	**2.9**	**0.059 BN**	**0.13 B**	**0.91**	**0.53**	0.2 U	**0.8**	**0.91**	**4.5**	**0.30 N**	**0.87**	**6.0**
Antimony	0.01	mg/L	0.02 U	0.020 U	0.02 U	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.020 U	0.02 U	0.020 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	0.01 U	0.010 U	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.010 U	0.01 U	0.01 U
Barium	2	mg/L	**0.14**	**0.15**	**0.13**	**0.13**	**0.14**	**0.14**	**0.14**	**0.19**	**0.17**	**0.16**	**0.18**	**0.18**	**0.17**	**0.19**
Beryllium	0.004	mg/L	0.004 U	0.0040 U	0.004 U	0.0040 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.004 U	0.0040 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	0.005 U	0.0050 U	0.005 U	0.0050 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	0.0050 U	0.005 U	0.005 U
Calcium metal	*	mg/L	**41**	**44**	**43**	**43**	**45**	**42**	**40**	**50**	**43**	**38**	**37**	**38**	**39**	**37**
Chromium	0.1	mg/L	0.01 U	0.0033 U	**0.0028 B**	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	**0.0043 B**	0.010 U	0.01 U	**0.0060 B**
Cobalt	*	mg/L	0.01 U	**0.0016 B**	**0.0015 B**	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0027 B**	**0.002 B**	0.010 U	0.01 U	**0.0022 B**
Copper	1.3	mg/L	0.02 U	0.0017 U	**0.002 B**	0.020 U	0.02 U	**0.0016 B**	**0.0033 B**	0.02 U	0.02 U	0.0014 U	**0.0024 B**	0.020 U	0.02 U	**0.0026 B**
Cyanide	0.2	mg/L	0.015 U	0.010 UJ	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.010 UJ	0.01 U	0.010 U	0.01 U	0.01 U
Iron	*	mg/L	**3.1**	**3.6**	**2.5 N**	**2.1 N**	**3.3**	**4.2 N**	**3.9 N**	**0.48**	**1**	**0.79**	**2.8 N**	**0.70 N**	**0.53**	**3.9 N**
Lead	0.015	mg/L	0.005 U	0.0018 U	**0.002 B**	0.0050 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	**0.002 B**	0.0050 U	0.005 U	**0.0017 B**
Magnesium	*	mg/L	**26**	**25**	**24**	**25**	**26**	**24**	**23**	**26**	**25**	**20**	**19**	**20**	**21**	**20**
Manganese	*	mg/L	**1.4**	**1.4**	**1.3**	**1.4**	**1.4**	**1.3**	**1.3**	**1.6**	**1.4**	**1.3**	**1.3**	**1.3**	**1.3**	**1.3**
Mercury	0.002	mg/L	0.0002 U	0.00020 U	0.0002 U	0.00020 U	0.0002 U	0.00020 U	0.00020 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U	0.00020 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	0.04 U	0.040 U	0.04 U	0.040 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.040 U	0.04 U	0.040 U	0.04 U	0.04 U
Potassium	*	mg/L	**9.5**	**10**	**10**	**11**	**11**	**10**	**10**	**11**	**9.6**	**9.6**	**9.9**	**9.8**	**10**	**9.9**
Selenium	0.05	mg/L	**0.02**	0.010 U	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.02**	0.010 U	**0.0044 B**	0.010 U	0.01 U	0.01 U
Sodium	*	mg/L	**80**	**86**	**80**	**83**	**83**	**81**	**78**	**87**	**79**	**76**	**77**	**78**	**78**	**77**
Thallium	0.002	mg/L	0.002 U	0.0020 UJ	0.002 UWN	0.0020 U	0.002 UW	0.002 U	0.002 U	0.001 U	0.002 U	0.0020 UJ	0.002 UWN	0.0020 U	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	0.01 U	**0.0028 B**	**0.0026 B**	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.01**	**0.0090 B**	**0.019**	**0.0064 B**	**0.0088 B**	**0.019**
Zinc	2	mg/L	**0.03**	0.020 U	0.02 U	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.02**	**0.0078 B**	**0.0069 B**	0.020 U	0.02 U	**0.0093 B**

Notes:
-- - Not analyzed
* - Not a HSRA regulated compounds
B (Inorganics) - Estimated analyte concentration
Bold - analyte detected
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
RRS - Risk Reduction Standard
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-3
Summary of Historical Ground Water Sampling Data - Decommissioned Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Ga

Chemical Name	Type 1 Risk Reduction Standard	Location ID	TLC-05D							TLC-05S							
		Sample Date	1/20/2004	7/18/2003	1/15/2003	7/15/2002	1/15/2002	7/11/2001	1/19/2001	1/20/2004	7/18/2003	1/15/2003	7/15/2002	7/15/2002	1/15/2002	7/11/2001	1/19/2001
		Sample ID	TLC-5D-Q1-04	TLC-5D-Q3-03	TLC05D-011503	TLC05D-071502	TLC05D-011502	TLC05D-071101	TLC05D-011901	TLC-5S-Q1-04	TLC-5S-Q3-03	TLC05S-011503	TLC05S-071502 DUP	TLC05S-071502	TLC05S-011502	TLC05S-071101	TLC05S011901
		Unit															
Volatile Organic Compounds																	
Acetone	4	mg/L	0.12 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.05 U	0.25 U	0.025 U	0.025 U	**0.091**	0.025 U	0.025 U	0.025 U	0.025 U
Benzene	0.005	mg/L	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	**0.0003 J**	0.01 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon Disulfide	4	mg/L	0.005 U	0.001 U	0.001 UJ	**0.00039 J**	0.001 U	0.001 U	0.002 U	0.01 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichloromethane	0.005	mg/L	0.025 U	0.005 U	0.005 UJ	**0.00074 J**	0.005 U	0.005 U	0.01 U	0.05 U	0.005 U	0.005 UJ	**0.00048 J**	0.005 U	0.005 U	0.005 U	0.005 U
Ethylbenzene	0.7	mg/L	0.005 U	0.001 U	0.001 U	**0.00036 J**	0.001 U	0.001 U	0.002 U	0.01 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	1	mg/L	0.005 U	0.001 U	0.001 U	**0.00067 J**	0.001 U	0.001 U	0.002 U	0.01 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethylene	0.005	mg/L	0.005 U	**0.004**	**0.0036**	**0.0044**	**0.0031**	**0.0028**	**0.0033**	0.01 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes, total	2	mg/L	0.01 U	0.002 U	0.002 U	**0.00072 J**	0.002 U	**0.00046 J**	0.004 U	0.02 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Semivolatile Organic Compounds																	
2-Methylnaphthalene	*	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Acenaphthene	2	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.00028 J**	0.01 U
Acenaphthylene	0.0002	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Anthracene	0.0002	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benz(a)anthracene	0.0001	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(a)pyrene	0.0002	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(b)fluoranthene	0.0002	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(g,h,i)perylene	0.0002	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(k)fluoranthene	0.0002	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chrysene	0.0002	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Dibenzo(a,h)anthracene	0.003	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Dibenzofuran	0.001	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Fluoranthene	1	mg/L	**0.00035**	0.01 U	**0.00036 J**	0.01 U	0.01 U	0.01 U	**0.00058 J**	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Fluorene	1	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Indeno(1,2,3-cd)pyrene	0.0004	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Naphthalene	0.02	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Phenanthrene	*	mg/L	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Pyrene	1	mg/L	**0.00047**	0.01 U	**0.00072 J**	0.01 U	0.01 U	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Inorganic Compounds																	
Aluminum (fume or dust)	*	mg/L	**0.29**	**10**	**0.93**	**0.99**	**37**	**5.5**	**4.0**	0.2 U	0.2 U	**0.13 B**	**0.049 B**	**0.052 B**	**0.096 BN**	0.2 U	**0.17 B**
Antimony	0.01	mg/L	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U
Barium	2	mg/L	**0.16**	**0.19**	**0.16**	**0.17**	**0.29**	**0.19**	**0.13**	**0.077**	**0.08**	**0.068**	**0.073**	**0.073**	**0.071**	**0.068**	**0.068**
Beryllium	0.004	mg/L	0.004 U	0.004 U	0.0040 U	0.004 U	**0.0018 B**	**0.00079 B**	0.004 U	0.004 U	0.004 U	0.0040 U	0.004 U	0.004 U	0.0040 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	0.005 U	0.005 U	0.0050 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	0.005 U	0.0050 U	0.005 U	0.005 U
Calcium metal	*	mg/L	**31**	**27**	**29**	**28**	**27**	**25**	**27**	**40**	**41**	**36**	**38**	**38**	**36**	**37**	**36**
Chromium	0.1	mg/L	0.01 U	0.01 U	0.0019 U	0.01 U	**0.052**	**0.0074 BN**	**0.0057 B**	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.010 U	0.01 UN	0.01 U
Cobalt	*	mg/L	0.01 U	0.01 U	**0.0054 B**	**0.0065 B**	**0.014**	**0.0067 B**	**0.0043 B**	0.01 U	0.01 U	**0.0034 B**	**0.0033 B**	**0.0034 B**	**0.0029 B**	**0.0028 B**	**0.0025 B**
Copper	1.3	mg/L	0.02 U	0.02 U	0.0011 U	**0.00097 B**	**0.015 B**	**0.0023 BN**	**0.0033 B**	0.02 U	0.02 U	0.020 U	0.02 U	0.02 U	0.020 U	**0.005 BN**	**0.0012 B**
Cyanide	0.2	mg/L	0.01 U	0.015 U	0.010 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.010 UJ	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U
Iron	*	mg/L	**3.4**	**12**	**5.6**	**4.5 N**	**20**	**8.6**	**4.7 N**	**0.076**	**0.19**	**0.30**	**0.19 N**	**0.18 N**	**0.10 N**	**0.79**	**0.76 N**
Lead	0.015	mg/L	0.005 U	**0.02**	0.0023 U	0.005 U	**0.027**	**0.0069**	**0.0091**	0.005 U	0.005 U	0.0024 U	0.005 U	0.005 U	0.0050 U	**0.0018 B**	0.005 U
Magnesium	*	mg/L	**17**	**15**	**16**	**15**	**16**	**14**	**15**	**23**	**27**	**21**	**23**	**23**	**22**	**20**	**20**
Manganese	*	mg/L	**1.4**	**1.3**	**1.3**	**1.4**	**1.5**	**1.3 N**	**1.4**	**2**	**2.1**	**1.7**	**1.9**	**1.9**	**1.8**	**1.8 N**	**1.9**
Mercury	0.002	mg/L	0.0002 U	0.0002 UJ	0.00020 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U	0.0002 UJ	**0.000080 B**	0.0002 U	0.0002 U	0.00020 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	0.04 U	0.04 U	0.040 U	0.04 U	**0.027 B**	**0.0058 B**	0.04 U	0.04 U	0.04 U	0.040 U	0.04 U	0.04 U	0.040 U	0.04 U	0.04 U
Potassium	*	mg/L	**6.8**	**5.8**	**6.1**	**6.3**	**6.6**	**5.9**	**6.4**	**7.2**	**6.9**	**6.3**	**6.9**	**6.9**	**6.5**	**6.4**	**6.2**
Selenium	0.05	mg/L	0.01 U	0.01 UJ	0.010 U	**0.0076 B**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U
Sodium	*	mg/L	**79**	**69**	**75**	**76**	**72**	**70**	**74**	**77**	**78**	**70**	**77**	**77**	**75**	**66**	**71**
Thallium	0.002	mg/L	0.001 U	0.002 U	0.0020 UJ	0.002 UWN	0.002 U	0.002 U	0.002 U	0.001 U	0.002 U	0.0020 UJ	0.002 UWN	0.002 UWN	0.0020 U	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	0.01 U	**0.02**	0.010 U	0.01 U	**0.055**	**0.0081 B**	**0.0044 B**	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U
Zinc	2	mg/L	0.02 U	**0.04**	0.020 U	0.02 U	**0.052**	**0.011 B**	**0.0098 B**	0.02 U	**0.18**	0.020 U	0.02 U	0.02 U	0.020 U	**0.0063 B**	0.02 U

Notes:
-- - Not analyzed
* - Not a HSRA regulated compounds
B (Inorganics) - Estimated analyte concentration
Bold - analyte detected
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
RRS - Risk Reduction Standard
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-3
Summary of Historical Ground Water Sampling Data - Decommissioned Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Ga

Chemical Name	Type 1 Risk Reduction Standard	Location ID	TLC-07D					TLC-07S						
		Sample Date	1/21/2003	7/16/2002	1/17/2002	7/12/2001	1/24/2001	1/21/2004	7/19/2003	1/21/2003	7/16/2002	1/16/2002	7/11/2001	1/24/2001
		Sample ID	TLC07D-012103	TLC07D-071602	TLC07D-011702	TLC07D-071201	TLC07D 012401	TLC-7S-Q1-04	TLC-7S-Q3-03	TLC07S-012103	TLC07S-071602	TLC07S-011602	TLC07S-071101	TLC07S 012401
		Unit												
Volatile Organic Compounds														
Acetone	4	mg/L	**0.038**	0.025 U	**0.018 J**	**0.062**	**0.048**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzene	0.005	mg/L	**0.00014 J**	0.001 U	0.001 U	**0.00023 J**	**0.00058 J**	0.001 U	0.001 U	**0.00014 J**	0.001 U	0.001 U	**0.00024 J**	**0.00072 J**
Carbon Disulfide	4	mg/L	**0.00037 J**	**0.00098 J**	0.001 U	**0.00036 J**	0.001 U	0.001 U	0.001 U	0.001 U	**0.0037**	0.001 U	0.001 U	0.001 U
Dichloromethane	0.005	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	**0.0003 J**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethylbenzene	0.7	mg/L	**0.00011 J**	0.001 U	0.001 U	0.001 U	**0.00056 J**	0.001 U	0.001 U	**0.00021 J**	**0.00029 J**	0.001 U	0.001 U	**0.00016 J**
Toluene	1	mg/L	**0.00078 J**	0.001 U	**0.00037 J**	**0.00091 J**	**0.00075 J**	0.001 U	0.001 U	**0.00032 J**	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethylene	0.005	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes, total	2	mg/L	0.002 U	0.002 U	0.002 U	**0.001 J**	**0.00066 J**	0.002 U	0.002 U	**0.00083 J**	0.002 U	0.002 U	**0.00061 J**	**0.0012 J**
Semivolatile Organic Compounds														
2-Methylnaphthalene	*	mg/L	0.01 U	0.01 U	--	0.01 U	**0.00087 J**	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0042 J**
Acenaphthene	2	mg/L	**0.0016 J**	**0.00093 J**	--	**0.0014 J**	**0.0033 J**	**0.0078**	**0.026**	**0.011**	**0.0042 J**	**0.0055 J**	**0.018**	**0.03**
Acenaphthylene	0.0002	mg/L	0.01 U	0.01 U	--	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Anthracene	0.0002	mg/L	0.01 U	0.01 U	--	0.01 U	**0.00064 J**	**0.0002**	0.01 U	0.01 U	0.01 U	0.01 U	**0.0022 J**	**0.0035 J**
Benz(a)anthracene	0.0001	mg/L	0.01 U	0.01 U	--	0.01 U	**0.00045 J**	**0.00022**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(a)pyrene	0.0002	mg/L	0.01 U	0.01 U	--	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(b)fluoranthene	0.0002	mg/L	0.01 U	0.01 U	--	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(g,h,i)perylene	0.0002	mg/L	0.01 U	0.01 U	--	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(k)fluoranthene	0.0002	mg/L	0.01 U	0.01 U	--	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chrysene	0.0002	mg/L	0.01 U	0.01 U	--	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Dibenzo(a,h)anthracene	0.003	mg/L	0.01 U	0.01 U	--	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Dibenzofuran	0.001	mg/L	0.01 U	0.01 U	--	0.01 U	**0.00061 J**	0.0002 U	0.01 U	**0.00088 J**	0.01 U	**0.00044 J**	**0.0039 J**	**0.0071 J**
Fluoranthene	1	mg/L	0.01 U	0.01 U	--	0.01 U	**0.0011 J**	**0.0029**	0.01 U	**0.0023 J**	**0.0016 J**	**0.0016 J**	**0.0031 J**	**0.004 J**
Fluorene	1	mg/L	0.01 U	0.01 U	--	0.01 U	**0.0014 J**	**0.0025**	0.01 U	**0.0042 J**	**0.0017 J**	**0.0015 J**	**0.0064 J**	**0.013**
Indeno(1,2,3-cd)pyrene	0.0004	mg/L	0.01 U	0.01 U	--	0.01 U	0.01 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Naphthalene	0.02	mg/L	0.01 U	0.01 U	--	0.01 U	**0.0011 J**	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0058 J**
Phenanthrene	*	mg/L	0.01 U	**0.00043 J**	--	0.01 U	**0.0018 J**	0.0002 U	0.01 U	**0.00045 J**	0.01 U	**0.00041 J**	**0.011**	**0.016**
Pyrene	1	mg/L	0.01 U	0.01 U	--	**0.00055 J**	**0.0015 J**	**0.0026**	0.01 U	**0.0021 J**	**0.0014 J**	**0.0014 J**	**0.0026 J**	**0.0035 J**
Inorganic Compounds														
Aluminum (fume or dust)	*	mg/L	**0.67**	--	--	**0.67**	--	0.2 U	**0.3**	**0.1 B**	**0.56**	0.036 U	**0.21**	**0.16 B**
Antimony	0.01	mg/L	0.02 U	--	--	0.02 U	--	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	0.01 U	--	--	0.01 U	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.37**	--	--	**0.37**	--	**0.38**	**0.43**	**0.39**	**0.34**	**0.35**	**0.4**	**0.4**
Beryllium	0.004	mg/L	0.004 U	--	--	0.004 U	--	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	0.005 U	--	--	0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	**21**	--	--	**21**	--	**84**	**83**	**86**	**75**	**77**	**84**	**90**
Chromium	0.1	mg/L	0.01 U	--	--	**0.0022 B**	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UN	0.01 U
Cobalt	*	mg/L	**0.0042 B**	--	--	**0.006 B**	--	0.01 U	0.01 U	**0.0045 B**	**0.0088 B**	**0.0089 B**	**0.0047 B**	**0.0053 B**
Copper	1.3	mg/L	**0.0045 B**	--	--	**0.0053 B**	--	0.02 U	0.02 U	**0.0024 B**	**0.00099 B**	0.02 U	0.02 UN	0.02 U
Cyanide	0.2	mg/L	--	--	--	0.01 U	--	**0.012**	**0.05**	**0.012**	0.01 U	**0.027**	0.01 U	**0.017**
Iron	*	mg/L	**13**	--	--	**17**	--	**39**	**25**	**31**	**34**	**33**	**33**	**29**
Lead	0.015	mg/L	0.005 U	--	--	0.005 U	--	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	**13**	--	--	**13**	--	**67**	**68**	**67**	**63**	**64**	**66**	**67**
Manganese	*	mg/L	**1.7**	--	--	**1.5**	--	**3.4**	**2.1**	**2.8**	**3.9**	**4**	**2.6 N**	**2.4**
Mercury	0.002	mg/L	**0.000092 B**	--	--	0.0002 U	--	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	0.04 U	--	--	0.04 U	--	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	**2.4**	--	--	**2.7**	--	**4**	**6.4**	**5.6**	**3.9**	**3.5**	**5.9**	**6.5**
Selenium	0.05	mg/L	0.01 U	--	--	0.01 U	--	0.01 U	**0.02**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	**28**	--	--	**26**	--	**53**	**46**	**53**	**51**	**51**	**54**	**51**
Thallium	0.002	mg/L	0.002 UW	--	--	0.002 UW	--	0.001 U	0.002 U	0.002 UW	0.002 UW	0.002 U	0.002 U	0.002 UW
Vanadium (fume or dust)	0.2	mg/L	0.01 U	--	--	**0.003 B**	--	0.01 U	**0.02**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	**0.028**	--	--	0.02 U	--	0.02 U	**0.03**	**0.022**	0.02 U	0.02 U	0.02 U	0.02 U

Notes:
-- - Not analyzed
* - Not a HSRA regulated compounds
B (Inorganics) - Estimated analyte concentration
Bold - analyte detected
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
RRS - Risk Reduction Standard
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-3
Summary of Historical Ground Water Sampling Data - Decommissioned Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Ga

Chemical Name	Type 1 Risk Reduction Standard	Location ID	TLC-08D					TLC-08S					
		Sample Date	1/22/2003	7/16/2002	1/16/2002	7/13/2001	1/19/2001	1/18/2001	1/17/2002	7/16/2002	1/21/2004	7/19/2003	1/21/2003
		Sample ID	TLC08D-012203	TLC08D-071602	TLC08D-011602	TLC08D-071301	TLC08D 011901	TLC08S 011801	TLC08S-011702	TLC08S-071602	TLC-8S-Q1-04	TLC-8S-Q3-03	TLC08S-012103
		Unit											
Volatile Organic Compounds													
Acetone	4	mg/L	0.025 U	0.025 U	**0.024 J**	0.025 U	0.025 U	0.025 U	0.025 U	**0.036**	1.2 U	0.63 U	0.05 U
Benzene	0.005	mg/L	**0.00064 J**	**0.00074 J**	**0.004**	**0.0015**	**0.0025**	**0.18**	**0.11**	**0.07**	**0.19**	**0.18**	**0.24**
Carbon Disulfide	4	mg/L	0.001 U	0.001 U	0.001 U	**0.00046 J**	**0.00059 J**	0.001 U	0.001 U	0.001 U	0.05 U	0.025 U	0.002 U
Dichloromethane	0.005	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.00034 J**	0.25 U	0.13 U	0.01 U
Ethylbenzene	0.7	mg/L	**0.0002 J**	**0.00048 J**	**0.0039**	**0.004**	**0.0064**	**0.16**	**0.15**	**0.054**	**0.16**	**0.15**	**0.24**
Toluene	1	mg/L	0.001 U	**0.00073 J**	**0.0003 J**	**0.00069 J**	**0.00036 J**	**0.0035**	**0.0029**	**0.0014**	0.05 U	0.025 U	**0.0044**
Trichloroethylene	0.005	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.05 U	0.025 U	0.002 U
Xylenes, total	2	mg/L	**0.001 J**	**0.0014 J**	**0.0033**	**0.0042**	**0.0055**	**0.079**	**0.073**	**0.023**	0.5 U	0.05 U	**0.092**
Semivolatile Organic Compounds													
2-Methylnaphthalene	*	mg/L	**0.0078 J**	**0.036**	--	0.01 U	0.01 U	**0.62**	**0.45 J**	**0.37 D**	**0.34**	**0.53 J M**	**0.44**
Acenaphthene	2	mg/L	**0.019**	**0.031**	--	**0.0087 J**	**0.0027 J**	**0.36**	**0.31 J**	**0.27 D**	**0.22**	**0.37**	**0.25**
Acenaphthylene	0.0002	mg/L	0.01 U	0.01 U	--	0.01 U	**0.0034 J**	**0.0035 J**	0.5 U	0.01 U	0.0002 U	0.01 U	0.05 U
Anthracene	0.0002	mg/L	**0.0015 J**	**0.0034 J**	--	**0.0022 J**	0.01 U	**0.02 J**	0.5 U	**0.016**	**0.022**	**0.025**	**0.016 J**
Benz(a)anthracene	0.0001	mg/L	0.01 U	0.01 U	--	0.01 U	0.01 U	**0.0083 J**	0.5 U	**0.0016 J**	**0.0047**	0.01 U	**0.0042 J**
Benzo(a)pyrene	0.0002	mg/L	0.01 U	**0.00044 J**	--	0.01 U	0.01 U	**0.0071 J**	0.5 U	**0.0012 J**	**0.0018**	0.01 U	0.05 U
Benzo(b)fluoranthene	0.0002	mg/L	0.01 U	0.01 U	--	0.01 U	0.01 U	**0.0062 J**	0.5 U	0.01 U	0.0002 U	0.01 U	0.05 U
Benzo(g,h,i)perylene	0.0002	mg/L	0.01 U	**0.0012 J**	--	0.01 U	0.01 U	**0.0075 J**	0.5 U	0.01 U	**0.0011**	0.01 U	0.05 U
Benzo(k)fluoranthene	0.0002	mg/L	0.01 U	0.01 U	--	0.01 U	0.01 U	**0.0063 J**	0.5 U	**0.001 J**	**0.0033**	0.01 U	0.05 U
Chrysene	0.0002	mg/L	0.01 U	0.01 U	--	0.01 U	0.01 U	**0.0093 J**	0.5 U	**0.0016 J**	**0.0036**	0.01 U	**0.004 J**
Dibenzo(a,h)anthracene	0.003	mg/L	0.01 U	**0.00092 J**	--	0.01 U	0.01 U	**0.005 J**	0.5 U	0.01 U	0.0002 U	0.01 U	0.05 U
Dibenzofuran	0.001	mg/L	**0.0012 J**	**0.0023 J**	--	0.01 U	0.01 U	**0.021 J**	**0.016 J**	**0.013**	**0.02**	**0.022**	**0.014 J**
Fluoranthene	1	mg/L	**0.001 J**	**0.0016 J**	--	**0.0014 J**	0.01 U	**0.012 J**	0.5 U	**0.0074 J**	**0.016**	**0.018**	**0.012 J**
Fluorene	1	mg/L	**0.0058 J**	**0.011**	--	**0.0062 J**	0.01 U	**0.11**	**0.066 J**	**0.064**	**0.067**	**0.1**	**0.072**
Indeno(1,2,3-cd)pyrene	0.0004	mg/L	0.01 U	**0.00094 J**	--	0.01 U	0.01 U	**0.0046 J**	0.5 U	0.01 U	**0.00099**	0.01 U	0.05 U
Naphthalene	0.02	mg/L	**0.0031 J**	**0.019**	--	0.01 U	0.01 U	**3.8 D**	**4.1**	**2.6 D**	**6.7**	**8.9 J M**	**3.7 D**
Phenanthrene	*	mg/L	**0.0046 J**	**0.016**	--	**0.0078 J**	0.01 U	**0.11**	**0.083 J**	**0.078**	**0.091**	**0.12**	**0.085**
Pyrene	1	mg/L	**0.0012 J**	**0.0017 J**	--	**0.0016 J**	0.01 U	**0.015 J**	0.5 U	**0.011**	**0.02**	**0.023**	**0.016 J**
Inorganic Compounds													
Aluminum (fume or dust)	*	mg/L	**0.055 B**	**0.63**	--	**0.06 B**	**1.3**	**0.18 B**	**1.8**	--	**0.77**	**1.9**	**10**
Antimony	0.01	mg/L	0.02 U	0.02 U	--	0.02 U	0.02 U	0.02 U	0.02 U	--	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	**0.004 B**	0.01 U	--	0.01 U	**0.0037 B**	0.01 U	**0.0034 B**	--	0.01 U	0.01 U	**0.0088 B**
Barium	2	mg/L	**0.26**	**0.26**	--	**0.19**	**0.17**	**0.49**	**0.51**	--	**0.48**	**0.53**	**0.6**
Beryllium	0.004	mg/L	0.004 U	0.004 U	--	0.004 U	0.004 U	0.004 U	0.004 U	--	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	0.005 U	0.005 U	--	0.005 U	**0.0035 B**	**0.0011 B**	0.005 U	--	0.005 U	**0.006**	**0.0013 B**
Calcium metal	*	mg/L	**15**	**14**	--	**13**	**14**	**130**	**140**	--	**120**	**120**	**130**
Chromium	0.1	mg/L	0.01 U	0.01 U	--	0.01 U	**0.0025 B**	0.01 U	**0.0022 B**	--	0.01 U	0.01 U	**0.012**
Cobalt	*	mg/L	**0.0021 B**	**0.0022 B**	--	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	**0.0043 B**
Copper	1.3	mg/L	**0.0031 B**	**0.0067 B**	--	0.02 U	**0.015 B**	**0.0010 B**	**0.0041 B**	--	0.02 U	0.02 U	**0.022**
Cyanide	0.2	mg/L	0.01 U	--	--	0.01 U	0.01 U	**0.011**	**0.01 B**	--	**0.012**	0.015 U	**0.015**
Iron	*	mg/L	**8.7**	**10**	--	**10**	**10 N**	**37**	**40**	--	**36**	**30**	**48**
Lead	0.015	mg/L	0.005 U	0.005 U	--	0.005 U	0.005 U	**0.0017 B**	**0.03**	--	**0.005**	**0.03**	**0.086**
Magnesium	*	mg/L	**11**	**10**	--	**9.3**	**9.8**	**36**	**39**	--	**41**	**44**	**43**
Manganese	*	mg/L	**0.45**	**0.43**	--	**0.41**	**0.43**	**2.1**	**2.6 N**	--	**2.8**	**2.6**	**2.9**
Mercury	0.002	mg/L	**0.000087 B**	0.0002 U	--	0.0002 U	0.00020 U	0.00020 U	0.0002 U	--	0.0002 U	0.0002 U	**0.00028**
Nickel	0.1	mg/L	0.04 U	0.04 U	--	0.04 U	0.04 U	0.04 U	0.04 U	--	0.04 U	0.04 U	**0.0071 B**
Potassium	*	mg/L	**2.1**	**2.1**	--	**2.0**	**2.3**	**18**	**16 N**	--	**18**	**17**	**20**
Selenium	0.05	mg/L	0.01 U	**0.0047 B**	--	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	**0.02**	0.01 U
Sodium	*	mg/L	**21**	**20**	--	**19**	**20**	**33**	**32**	--	**31**	**33**	**39**
Thallium	0.002	mg/L	0.002 U	0.002 UW	--	0.002 U	0.002 U	0.002 U	0.002 U	--	0.001 U	0.002 U	0.002 UW
Vanadium (fume or dust)	0.2	mg/L	0.01 U	**0.0022 B**	--	0.01 U	**0.0027 B**	0.01 U	**0.0048 B**	--	0.01 U	**0.02**	**0.024**
Zinc	2	mg/L	**0.056**	0.02 U	--	0.02 U	**0.011 B**	**0.0076 B**	**0.035**	--	0.02 U	**0.09**	**0.19**

Notes:
-- - Not analyzed
* - Not a HSRA regulated compounds
B (Inorganics) - Estimated analyte concentration
Bold - analyte detected
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
RRS - Risk Reduction Standard
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-3
Summary of Historical Ground Water Sampling Data - Decommissioned Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Ga

Chemical Name	Type 1 Risk Reduction Standard	Location ID	TLC-09D											
		Sample Date	7/16/2004	7/16/2004	1/21/2004	1/21/2004	7/19/2003	7/19/2003	1/21/2003	1/21/2003	7/16/2002	1/16/2002	1/18/2001	7/11/2001
		Sample ID	TLC-9D-Q3-04	TLC-9D-Q3-04 DUP	TLC-9D-Q1-04	TLC-9D-Q1-04 DUP	TLC-9D-Q3-03	TLC-9D-Q3-03 DUP	TLC09D-012103	TLC09D-012103 DUP	TLC09D-071602	TLC09D-011602	TLC09D 011801	TLC09D-071101
		Unit												
Volatile Organic Compounds														
Acetone	4	mg/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzene	0.005	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	**0.00012 J**	**0.00026 J**
Carbon Disulfide	4	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichloromethane	0.005	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethylbenzene	0.7	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	**0.00017 J**	0.001 U	0.001 U	**0.00042 J**	0.001 U
Toluene	1	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	**0.0003 J**	**0.00035 J**	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethylene	0.005	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes, total	2	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	**0.0006 J**	**0.00052 J**	**0.00039 J**	**0.0007 J**	**0.00078 J**	0.002 U
Semivolatile Organic Compounds														
2-Methylnaphthalene	*	mg/L	**0.0013**	**0.0014**	**0.0024**	**0.003**	0.01 U	0.01 U	**0.006 J**	**0.0049 J**	**0.0037 J**	**0.0097 J**	**0.025**	**0.0063 J**
Acenaphthene	2	mg/L	**0.0072**	**0.0081**	**0.0095**	**0.012**	**0.012**	**0.013**	**0.018**	**0.017**	**0.011**	**0.026**	**0.045**	**0.02**
Acenaphthylene	0.0002	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Anthracene	0.0002	mg/L	**0.0016**	**0.0019**	**0.0019**	**0.0024**	0.01 U	0.01 U	**0.0036 J**	**0.0031 J**	**0.0029 J**	**0.0048 J**	**0.0065 J**	**0.0044 J**
Benz(a)anthracene	0.0001	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(a)pyrene	0.0002	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(b)fluoranthene	0.0002	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(g,h,i)perylene	0.0002	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(k)fluoranthene	0.0002	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chrysene	0.0002	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Dibenzo(a,h)anthracene	0.003	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Dibenzofuran	0.001	mg/L	0.0002 U	0.0002 U	**0.0018**	**0.0021**	0.01 U	0.01 U	**0.0052 J**	**0.0046 J**	**0.0032 J**	**0.0072 J**	**0.014**	**0.0062 J**
Fluoranthene	1	mg/L	**0.0018**	**0.002**	**0.0018**	**0.0019**	0.01 U	0.01 U	**0.0035 J**	**0.0031 J**	**0.0025 J**	**0.0047 J**	**0.005 J**	**0.004 J**
Fluorene	1	mg/L	**0.0032**	**0.0036**	**0.0038**	**0.0046**	0.01 U	0.01 U	**0.009 J**	**0.0077 J**	**0.0056 J**	**0.011**	**0.021**	**0.01**
Indeno(1,2,3-cd)pyrene	0.0004	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Naphthalene	0.02	mg/L	0.0002 U	0.0002 U	**0.00039**	**0.00054**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0011 J**	**0.018**	**0.0031 J**
Phenanthrene	*	mg/L	**0.0066**	**0.0074**	**0.0075**	**0.0087**	0.01 U	0.01 U	**0.016**	**0.014**	**0.011**	**0.022**	**0.029**	**0.02**
Pyrene	1	mg/L	**0.0013**	**0.0016**	**0.0014**	**0.0015**	0.01 U	0.01 U	**0.0025 J**	**0.0024 J**	**0.0019 J**	**0.0033 J**	**0.0034 J**	**0.0032 J**
Inorganic Compounds														
Aluminum (fume or dust)	*	mg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.1 B**	**1.2**	**0.051 B**	**0.089 B**	**0.72**
Antimony	0.01	mg/L	0.006 U	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.33**	**0.31**	**0.32**	**0.32**	**0.31**	**0.31**	**0.33**	**0.31**	**0.32**	**0.33**	**0.31**	**0.3**
Beryllium	0.004	mg/L	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	**0.0006 B**
Cadmium	0.005	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.0008 B**	0.005 U	0.005 U	**0.00094 B**	0.005 U
Calcium metal	*	mg/L	**18**	**17**	**20**	**20**	**18**	**19**	**19**	**19**	**18**	**20**	**22**	**19**
Chromium	0.1	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0024 B**	0.01 U	0.01 U	0.01 UN
Cobalt	*	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0024 B**	**0.0021 B**	**0.0025 B**	**0.0022 B**	0.01 U	**0.003 B**
Copper	1.3	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.0015 B**	**0.0022 B**	**0.0017 B**	0.02 U	0.02 U	0.02 UN
Cyanide	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.015 U	0.015 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron	*	mg/L	**37**	**35**	**32**	**32**	**29**	**29**	**40**	**39**	**39**	**41**	**34**	**40**
Lead	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.0028 B**
Magnesium	*	mg/L	**15**	**14**	**13**	**13**	**14**	**15**	**17**	**16**	**16**	**18**	**13**	**15**
Manganese	*	mg/L	**2.1**	**1.9**	**1.7**	**1.7**	**1.6**	**1.7**	**2.1**	**2**	**2**	**2.1**	**1.8**	**2.1 N**
Mercury	0.002	mg/L	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	**0.000089 B**	**0.00012 B**	0.0002 U	0.0002 U	0.00020 U	0.0002 U
Nickel	0.1	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	**2.2**	**2**	**2.9**	**3**	**2.5**	**2.5**	**2**	**1.9**	**1.9**	**1.9**	**2.7**	**1.8**
Selenium	0.05	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	**0.01**	0.01 U	0.01 U	**0.0065 B**	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	**34**	**32**	**30**	**30**	**29**	**29**	**39**	**38**	**35**	**39**	**31**	**36**
Thallium	0.002	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.002 UW	0.002 UW	0.002 UW	0.002 U	0.002 UW	0.002 U
Vanadium (fume or dust)	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0029 B**	0.01 U	0.01 U	**0.0023 B**
Zinc	2	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	**0.02**	**0.02**	**0.019 B**	**0.022**	**0.0069 B**	0.02 U	0.02 U	0.02 U

Notes:
-- - Not analyzed
* - Not a HSRA regulated compounds
B (Inorganics) - Estimated analyte concentration
Bold - analyte detected
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
RRS - Risk Reduction Standard
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-3
Summary of Historical Ground Water Sampling Data - Decommissioned Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Ga

Chemical Name	Type 1 Risk Reduction Standard	Location ID	TLC-09S									
		Sample Date	7/16/2004	1/21/2004	7/19/2003	1/21/2003	7/16/2002	1/16/2002	1/16/2002	7/10/2001	7/10/2001	1/18/2001
		Sample ID	TLC-9S-Q3-04	TLC-9S-Q1-04	TLC-9S-Q3-03	TLC09S-012103	TLC09S-071602	TLC09S-011602	TLC09SDUP-011602	TLC09S-071001	TLC09SDUP-071001	TLC09S 011801
		Unit										
Volatile Organic Compounds												
Acetone	4	mg/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzene	0.005	mg/L	0.001 U	0.001 U	0.001 U	**0.00015 J**	**0.0028**	**0.0012**	**0.0015**	**0.0001 J**	**0.00013 J**	**0.00038 J**
Carbon Disulfide	4	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	**0.0007 J**	0.001 U
Dichloromethane	0.005	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethylbenzene	0.7	mg/L	0.001 U	0.001 U	0.001 U	**0.00041 J**	0.001 U	0.001 U	0.001 U	0.001 U	**0.00036 J**	0.001 U
Toluene	1	mg/L	0.001 U	0.001 U	0.001 U	**0.00033 J**	0.001 U	0.001 U	**0.00031 J**	0.001 U	0.001 U	0.001 U
Trichloroethylene	0.005	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes, total	2	mg/L	0.002 U	0.002 U	0.002 U	**0.00062 J**	0.002 U	**0.00069 J**	**0.00051 J**	0.002 U	**0.00052 J**	**0.00078 J**
Semivolatile Organic Compounds												
2-Methylnaphthalene	*	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	**0.0019 J**	**0.0024 J**	**0.0028 J**	**0.00093 J**	**0.00087 J**	**0.0099 J**
Acenaphthene	2	mg/L	**0.012**	**0.036**	**0.016**	**0.034**	**0.05**	**0.046**	**0.054**	**0.023**	**0.025**	**0.065**
Acenaphthylene	0.0002	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.0024 J**
Anthracene	0.0002	mg/L	**0.0027**	**0.01**	0.01 U	**0.0088 J**	**0.014**	**0.01**	**0.011**	**0.0086 J**	**0.0086 J**	**0.018**
Benz(a)anthracene	0.0001	mg/L	0.0002 U	**0.00054**	0.01 U	**0.0012 J**	0.01 U	**0.00059 J**	**0.00053 J**	**0.0007 J**	**0.00064 J**	0.01 U
Benzo(a)pyrene	0.0002	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(b)fluoranthene	0.0002	mg/L	0.0002 U	0.0002 U	0.01 U	**0.00094 J**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(g,h,i)perylene	0.0002	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Benzo(k)fluoranthene	0.0002	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chrysene	0.0002	mg/L	0.0002 U	**0.00038**	0.01 U	**0.0014 J**	0.01 U	**0.00049 J**	0.01 U	**0.0007 J**	**0.00057 J**	**0.0034 J**
Dibenzo(a,h)anthracene	0.003	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Dibenzofuran	0.001	mg/L	**0.00038**	**0.01**	0.01 U	**0.014**	**0.022**	**0.018**	**0.021**	**0.01**	**0.01**	**0.027**
Fluoranthene	1	mg/L	**0.0022**	**0.0087**	0.01 U	**0.0084 J**	**0.01**	**0.0099 J**	**0.0093 J**	**0.0078 J**	**0.0077 J**	**0.016**
Fluorene	1	mg/L	**0.0072**	**0.027**	**0.012**	**0.023**	**0.034**	**0.028**	**0.033**	**0.022**	**0.022**	**0.048**
Indeno(1,2,3-cd)pyrene	0.0004	mg/L	0.0002 U	0.0002 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Naphthalene	0.02	mg/L	**0.00042**	**0.0006**	0.01 U	0.01 U	**0.001 J**	**0.00065 J**	**0.00079 J**	**0.0004 J**	0.01 U	0.01 U
Phenanthrene	*	mg/L	**0.005**	**0.039**	**0.021**	**0.041**	**0.064**	**0.054**	**0.061**	**0.042**	**0.043**	**0.075**
Pyrene	1	mg/L	**0.0016**	**0.0062**	0.01 U	**0.0066 J**	**0.0072 J**	**0.0068 J**	**0.0069 J**	**0.0058 J**	**0.0054 J**	**0.013**
Inorganic Compounds												
Aluminum (fume or dust)	*	mg/L	0.2 U	0.2 U	**1.1**	**1.3**	**0.21**	0.15 U	**0.067 B**	**0.14 B**	**0.43**	**0.23**
Antimony	0.01	mg/L	0.006 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic	0.05	mg/L	0.01 U	0.01 U	0.01 U	**0.0057 B**	0.01 U	0.01 U	0.01 U	**0.0068 B**	0.01 U	0.01 U
Barium	2	mg/L	**0.41**	**0.32**	**0.36**	**0.44**	**0.35**	**0.35**	**0.34**	**0.38**	**0.37**	**0.35**
Beryllium	0.004	mg/L	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	0.005 U	0.005 U	0.005 U	**0.00083 B**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.00078 B**
Calcium metal	*	mg/L	**180**	**99**	**140**	**190**	**86**	**120**	**110**	**160**	**150**	**160**
Chromium	0.1	mg/L	0.01 U	0.01 U	0.01 U	**0.0022 B**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt	*	mg/L	0.01 U	0.01 U	0.01 U	**0.0016 B**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Copper	1.3	mg/L	0.02 U	0.02 U	0.02 U	**0.0044 B**	**0.001 B**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Cyanide	0.2	mg/L	0.01 U	0.01 U	0.015 U	0.01 U	**0.0096 B**	**0.0056 B**	**0.0089 B**	0.01 U	0.01 U	0.01 U
Iron	*	mg/L	**17**	**30**	**14**	**34**	**30**	**28**	**28**	**23**	**23**	**23**
Lead	0.015	mg/L	0.005 U	0.005 U	**0.009**	**0.0097**	0.005 U	0.005 U	**0.0015 B**	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	**36**	**35**	**32**	**37**	**31**	**33**	**32**	**33**	**32**	**35**
Manganese	*	mg/L	**1.4**	**1.6**	**1.3**	**2.8**	**1.1**	**1.2**	**1.2**	**1.2**	**1.2**	**1.1**
Mercury	0.002	mg/L	0.0002 U	0.0002 U	0.0002 U	**0.00012 B**	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.00020 U	0.00020 U
Nickel	0.1	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	**13**	**9.6**	**10**	**9**	**9.8**	**9.4**	**9.2**	**12**	**11**	**10**
Selenium	0.05	mg/L	0.01 U	0.01 U	**0.02**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	**31**	**47**	**40**	**30**	**47**	**41**	**41**	**31**	**31**	**24**
Thallium	0.002	mg/L	0.001 U	0.001 U	0.002 U	0.002 UW	**0.0012 BW**	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	0.01 U	0.01 U	**0.01**	**0.003 B**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	0.02 U	0.02 U	**0.03**	**0.028**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

Notes:
-- - Not analyzed
* - Not a HSRA regulated compounds
B (Inorganics) - Estimated analyte concentration
Bold - analyte detected
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
RRS - Risk Reduction Standard
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-3
Summary of Historical Ground Water Sampling Data - Decommissioned Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Ga

Chemical Name	Type 1 Risk Reduction Standard	Location ID	TLC-10D			TLC-10S					TLC-11S							TLC-12D
		Sample Date	1/17/2002	7/18/2001	1/24/2001	1/24/2001	1/24/2001	1/17/2002	7/18/2001	7/13/2001	7/18/2003	1/15/2003	7/17/2002	4/3/2002	1/17/2002	7/12/2001	1/19/2001	1/17/2001
		Sample ID	TLC10D-011702	TLC10D-071801	TLC10D 012401	010110S 012401	TLC10S 012401	TLC10S-011702	TLC10S-071801	TLC01S-071301	TLC-11S-Q3-03	TLC11S-011503	TLC115-071702	TLC11S-040302	TLC11S-011702	TLC11S-071201	TLC11S 011901	TLC12D 011701
		Unit																
Volatile Organic Compounds																		
Acetone	4	mg/L	0.5 U	**1.2 R**	1.2 U	0.025 U	0.025 U	0.025 U	**0.025 R**	**0.031**	0.025 U	0.025 U	0.025 U	--	0.025 U	0.025 U	0.025 U	0.025 UJ
Benzene	0.005	mg/L	**2.5**	**4.9**	**6.6**	**0.019**	**0.02**	**0.014**	**0.025**	**0.00011 J**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	**0.00023 J**	0.001 U	**0.00024 J**
Carbon Disulfide	4	mg/L	0.02 U	0.05 U	**0.025 J**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	--	0.001 U	0.001 U	0.001 U	**0.00049 J**
Dichloromethane	0.005	mg/L	0.1 U	0.25 U	0.25 U	0.005 U	0.005 U	**0.00046 J**	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethylbenzene	0.7	mg/L	**0.46**	**0.87**	**1.6**	**0.0057**	**0.0057**	**0.0031**	**0.0061**	**0.00017 J**	0.001 U	0.001 U	0.001 U	**0.00022 J**	0.001 U	**0.00022 J**	**0.00042 J**	**0.036**
Toluene	1	mg/L	**0.01 J**	**0.024 J**	**0.032 J**	0.001 U	0.001 U	0.001 U	**0.0011**	**0.00058 J**	0.001 U	0.001 U	**0.00044 J**	0.001 U	**0.00071 J**	**0.0012**	**0.0046**	**0.00039 J**
Trichloroethylene	0.005	mg/L	**0.0058 J**	0.05 U	0.05 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	**0.00064 J**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes, total	2	mg/L	**0.21**	**0.4**	**0.72**	**0.0028**	**0.0029**	**0.0017 J**	**0.0049**	**0.0014 J**	0.002 U	0.002 U	0.002 U	--	0.002 U	0.002 U	0.002 U	**0.022**
Semivolatile Organic Compounds																		
2-Methylnaphthalene	*	mg/L	**0.15 J**	**0.29**	**0.46 D**	**0.0083 J**	**0.0036 J**	**0.0024 J**	**0.0022 J**	0.01 U	0.01 U	0.01 U	--	--	--	0.01 U	0.01 U	**0.29**
Acenaphthene	2	mg/L	**0.12 J**	**0.18**	**0.16**	**0.0058 J**	**0.0032 J**	**0.0058 J**	**0.0022 J**	0.01 U	0.01 U	**0.00031 J**	--	**0.00088 J**	--	0.01 U	**0.0018 J**	**0.14**
Acenaphthylene	0.0002	mg/L	**0.038 J**	0.05 U	0.01 U	**0.0012 J**	**0.00053 J**	**0.00091 J**	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	--	0.01 U	**0.00035 J**	**0.003 J**
Anthracene	0.0002	mg/L	0.2 U	**0.0027 J**	**0.0029 J**	**0.0014 J**	0.01 U	**0.0012 J**	**0.00036 J**	0.01 U	0.01 U	0.01 U	--	0.01 U	--	0.01 U	**0.00097 J**	**0.009 J**
Benz(a)anthracene	0.0001	mg/L	0.2 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	--	0.01 U	**0.0013 J**	0.01 U
Benzo(a)pyrene	0.0002	mg/L	0.2 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	--	0.01 U	0.01 U	0.01 U
Benzo(b)fluoranthene	0.0002	mg/L	0.2 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	--	0.01 U	0.01 U	0.01 U
Benzo(g,h,i)perylene	0.0002	mg/L	0.2 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	--	0.01 U	--	0.01 U	**0.0014 J**	0.01 U
Benzo(k)fluoranthene	0.0002	mg/L	0.2 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	--	0.01 U	0.01 U	0.01 U
Chrysene	0.0002	mg/L	0.2 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.01 U	--	0.01 U	**0.0015 J**	0.01 U
Dibenzo(a,h)anthracene	0.003	mg/L	0.2 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	--	0.01 U	--	0.01 U	0.01 U	0.01 U
Dibenzofuran	0.001	mg/L	0.2 U	**0.0083 J**	**0.011**	**0.0013 J**	0.01 U	**0.001 J**	0.01 U	0.01 U	0.01 U	0.01 U	--	--	--	0.01 U	0.01 U	**0.012**
Fluoranthene	1	mg/L	0.2 U	0.05 U	**0.0017 J**	**0.0037 J**	**0.0012 J**	**0.0016 J**	**0.00049 J**	0.01 U	0.01 U	**0.00064 J**	--	**0.00063 J**	--	0.01 U	**0.0038 J**	**0.0057 J**
Fluorene	1	mg/L	0.2 U	**0.027 J**	**0.034**	**0.0054 J**	**0.0018 J**	**0.0046 J**	**0.0014 J**	0.01 U	0.01 U	0.01 U	--	0.01 U	--	0.01 U	**0.00051 J**	**0.048**
Indeno(1,2,3-cd)pyrene	0.0004	mg/L	0.2 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	--	0.01 U	--	0.01 U	0.01 U	0.01 U
Naphthalene	0.02	mg/L	**1.6**	**3.3 D**	**3.6 D**	**0.025**	**0.018**	**0.012**	**0.028**	0.01 U	0.01 U	0.01 U	--	0.01 U	--	0.01 U	0.01 U	**0.97 D**
Phenanthrene	*	mg/L	**0.027 J**	**0.029 J**	**0.037**	**0.012**	**0.0023 J**	**0.0089 J**	**0.002 J**	0.01 U	0.01 U	0.01 U	--	0.01 U	--	0.01 U	**0.003 J**	**0.046**
Pyrene	1	mg/L	0.2 U	0.05 U	**0.0018 J**	**0.0041 J**	**0.0017 J**	**0.0015 J**	0.01 U	0.01 U	0.01 U	**0.0011 J**	--	**0.00098 J**	--	0.01 U	**0.0052 J**	**0.0048 J**
Inorganic Compounds																		
Aluminum (fume or dust)	*	mg/L	0.2 U	**0.47**	**5.8**	**5.3**	**4.6**	**6.8**	**0.21**	--	**2**	**0.20 B**	--	--	--	**0.1 B**	**3.4**	**0.12 J**
Antimony	0.01	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	--	0.02 U	0.020 U	--	--	--	**0.013 B**	0.02 U	**0.0059 J**
Arsenic	0.05	mg/L	0.01 U	0.01 U	0.01 U	**0.0046 B**	**0.0047 B**	**0.005 B**	0.01 U	--	0.01 U	0.010 U	--	--	--	**0.0041 B**	**0.0073 B**	0.01 U
Barium	2	mg/L	**0.39**	**0.36**	**0.34**	**0.27**	**0.26**	**0.29**	**0.15**	--	**0.23**	**0.11**	--	--	--	**0.1**	**0.1**	**0.25**
Beryllium	0.004	mg/L	**0.0009 B**	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	--	0.004 U	0.0040 U	--	--	--	0.004 U	0.004 U	0.00082 U
Cadmium	0.005	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	--	0.005 U	0.0050 U	--	--	--	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	**40**	**44**	**43**	**110**	**100**	**86**	**69**	--	**59**	**44**	--	--	--	**41**	**29**	**15**
Chromium	0.1	mg/L	0.01 U	0.01 U	**0.011**	**0.0054 B**	**0.0052 B**	**0.0075 B**	0.01 U	--	0.01 U	0.010 U	--	--	--	0.01 U	**0.005 B**	0.01 U
Cobalt	*	mg/L	0.01 U	0.01 U	**0.0016 B**	**0.0027 B**	**0.0023 B**	**0.0025 B**	0.01 U	--	0.01 U	**0.0021 B**	--	--	--	**0.0024 B**	**0.0014 B**	**0.0046 J**
Copper	1.3	mg/L	0.02 U	0.02 U	**0.0032 B**	**0.0074 B**	**0.0088 B**	**0.012 B**	0.0022 U	--	0.02 U	0.0028 U	--	--	--	**0.019 B**	**0.027**	0.02 U
Cyanide	0.2	mg/L	0.01 U	0.01 U	0.01 U	**0.076**	**0.042**	**0.091**	**0.045**	--	0.015 U	0.010 UJ	--	--	--	0.01 U	0.01 U	0.01 U
Iron	*	mg/L	**25**	**27**	**30**	**55**	**56**	**50**	**27**	--	**19**	**3.1**	--	--	--	**1.5**	**6.4 N**	**44**
Lead	0.015	mg/L	0.005 U	0.005 U	**0.0019 B**	**0.013**	**0.014**	**0.021**	0.0016 U	--	**0.009**	0.0016 U	--	--	--	**0.0028 B**	**0.036**	0.0023 U
Magnesium	*	mg/L	**22**	**24**	**23**	**14**	**13**	**12**	**8.9**	--	**23**	**13**	--	--	--	**7.2**	**8.4**	**8.9**
Manganese	*	mg/L	**2.8 N**	**2.5**	**2.2**	**1.3**	**1.3**	**0.98**	**0.73**	--	**3.9**	**1.1**	--	--	--	**0.69**	**0.63**	**2.3**
Mercury	0.002	mg/L	0.0002 U	0.0002 U	0.00020 U	0.00020 U	0.00020 U	0.0002 U	0.0002 U	--	0.0002 U	0.00020 U	--	--	--	0.0002 U	0.00020 U	0.00020 U
Nickel	0.1	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	--	0.04 U	0.040 U	--	--	--	**0.0055 B**	0.04 U	0.04 U
Potassium	*	mg/L	**11 N**	**11**	**10**	**6.0**	**5.8**	**5.9**	**5.3**	--	**3.2**	**3.1**	--	--	--	**3.9**	**3.0**	**4.1**
Selenium	0.05	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	**0.02**	0.010 U	--	--	--	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	**80**	**87**	**86**	**10**	**10**	**9.5**	**9.1**	--	**9.4**	**5.6**	--	--	--	**3.9**	**4.6**	**17**
Thallium	0.002	mg/L	0.002 U	0.002 U	0.002 U	0.002 UW	0.002 UW	0.002 UW	0.002 U	--	0.002 U	0.0020 UJ	--	--	--	0.002 U	0.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	0.01 U	0.01 U	**0.01**	**0.011**	**0.0089 B**	**0.015**	0.01 U	--	**0.01**	0.010 U	--	--	--	0.01 U	**0.0059 B**	**0.0028 J**
Zinc	2	mg/L	0.02 U	0.02 U	**0.017 B**	**0.029**	**0.04**	**0.023**	0.02 U	--	**0.03**	**0.0092 B**	--	--	--	**0.049**	**0.030**	0.02 U

Notes:

-- - Not analyzed
* - Not a HSRA regulated compounds
B (Inorganics) - Estimated analyte concentration
Bold - analyte detected
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
RRS - Risk Reduction Standard
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

Appendix E-3
Summary of Historical Ground Water Sampling Data - Decommissioned Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Ga

Chemical Name	Type 1 Risk Reduction Standard	Location ID	TLC-12S	TLC-13D								TLC-13S		
		Sample Date	1/17/2001	7/13/2004	1/22/2004	7/20/2003	1/16/2003	7/15/2002	1/15/2002	7/17/2001	1/19/2001	1/15/2002	7/17/2001	1/19/2001
		Sample ID	TLC12S 011701	TLC-13D-Q3-04	TLC-13D-Q1-04	TLC-13D-Q3-03	TLC13D-011603	TLC13D-071502	TLC13D-011502	TLC13D-071701	TLC13D 011901	TLC13S-011502	TLC13S-071701	TLC13S 011901
		Unit												
Volatile Organic Compounds														
Acetone	4	mg/L	0.025 UJ	0.025 U	0.025 U	0.025 U	**0.014 J**	0.025 U	0.025 U	0.025 U	0.025 U	**0.3**	**0.016 J**	0.025 U
Benzene	0.005	mg/L	**0.015**	0.001 U	0.001 U	**0.047**	0.001 U	0.001 U	0.001 U	**0.0002 J**	0.001 U	0.001 U	**0.00024 J**	0.001 U
Carbon Disulfide	4	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichloromethane	0.005	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.00046 J**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethylbenzene	0.7	mg/L	0.0012 U	0.001 U	0.001 U	0.001 U	**0.00014 J**	0.001 U	0.001 U	**0.00057 J**	0.001 U	0.001 U	**0.0006 J**	0.001 U
Toluene	1	mg/L	**0.00055 J**	0.001 U	0.001 U	**0.046**	**0.00035 J**	**0.00054 J**	0.001 U	**0.00035 J**	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethylene	0.005	mg/L	0.001 U	0.001 U	0.001 U	**0.044**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes, total	2	mg/L	**0.0081**	0.002 U	0.002 U	0.002 U	**0.00046 J**	0.002 U	0.002 U	**0.00068 J**	0.002 U	0.002 U	**0.00064 J**	0.002 U
Semivolatile Organic Compounds														
2-Methylnaphthalene	*	mg/L	**0.0046 J**	**0.0004**	**0.0014**	0.01 U	--	0.01 U	--	0.01 U	0.01 U	--	--	--
Acenaphthene	2	mg/L	**0.11**	**0.0012**	**0.0024**	0.01 U	--	**0.0003 J**	--	**0.001 J**	**0.0012 J**	--	--	--
Acenaphthylene	0.0002	mg/L	**0.0017 J**	0.0002 U	0.0002 U	0.01 U	--	0.01 U	--	0.01 U	0.01 U	--	--	--
Anthracene	0.0002	mg/L	**0.0076 J**	0.0002 U	0.0002 U	0.01 U	--	0.01 U	--	0.01 U	0.01 U	--	--	--
Benz(a)anthracene	0.0001	mg/L	**0.0048 J**	0.0002 U	0.0002 U	0.01 U	--	0.01 U	--	0.01 U	0.01 U	--	--	--
Benzo(a)pyrene	0.0002	mg/L	**0.0049 J**	0.0002 U	0.0002 U	0.01 U	--	0.01 U	--	0.01 U	0.01 U	--	--	--
Benzo(b)fluoranthene	0.0002	mg/L	**0.0031 J**	0.0002 U	0.0002 U	0.01 U	--	0.01 U	--	0.01 U	0.01 U	--	--	--
Benzo(g,h,i)perylene	0.0002	mg/L	**0.0032 J**	0.0002 U	0.0002 U	0.01 U	--	0.01 U	--	0.01 U	0.01 U	--	--	--
Benzo(k)fluoranthene	0.0002	mg/L	**0.0036 J**	0.0002 U	0.0002 U	0.01 U	--	0.01 U	--	0.01 U	0.01 U	--	--	--
Chrysene	0.0002	mg/L	**0.0046 J**	0.0002 U	0.0002 U	0.01 U	--	0.01 U	--	0.01 U	0.01 U	--	--	--
Dibenzo(a,h)anthracene	0.003	mg/L	0.01 U	0.0002 U	0.0002 U	0.01 U	--	0.01 U	--	0.01 U	0.01 U	--	--	--
Dibenzofuran	0.001	mg/L	**0.027**	0.0002 U	0.0002 U	0.01 U	--	0.01 U	--	0.01 U	0.01 U	--	--	--
Fluoranthene	1	mg/L	**0.03**	0.0002 U	0.0002 U	0.01 U	--	0.01 U	--	0.01 U	**0.0004 J**	--	--	--
Fluorene	1	mg/L	**0.037**	0.0002 U	**0.00034**	0.01 U	--	0.01 U	--	**0.00073 J**	0.01 U	--	--	--
Indeno(1,2,3-cd)pyrene	0.0004	mg/L	**0.0021 J**	0.0002 U	0.0002 U	0.01 U	--	0.01 U	--	**0.00063 J**	0.01 U	--	--	--
Naphthalene	0.02	mg/L	**0.017**	0.0002 U	0.0002 U	0.01 U	--	0.01 U	--	**0.0033 J**	0.01 U	--	--	--
Phenanthrene	*	mg/L	**0.03**	0.0002 U	0.0002 U	0.01 U	--	0.01 U	--	0.01 U	**0.00077 J**	--	--	--
Pyrene	1	mg/L	**0.023**	0.0002 U	0.0002 U	0.01 U	--	0.01 U	--	0.01 U	0.01 U	--	--	--
Inorganic Compounds														
Aluminum (fume or dust)	*	mg/L	**0.086 J**	**5.5**	**4.6**	**1.8**	**0.33**	**4.5**	--	**3.1 N**	**20**	--	--	--
Antimony	0.01	mg/L	0.02 U	0.006 U	0.02 U	0.02 U	0.020 U	0.02 U	--	0.02 U	**0.013 B**	--	--	--
Arsenic	0.05	mg/L	0.01 U	**0.03**	**0.027**	0.01 U	**0.095**	**0.09**	--	**0.18**	**0.15**	--	--	--
Barium	2	mg/L	**0.32**	**0.49**	**0.48**	**0.29**	**0.29**	**0.52**	--	**0.4**	**0.58**	--	--	--
Beryllium	0.004	mg/L	0.00078 U	0.004 U	0.004 U	0.004 U	0.0040 U	0.004 U	--	0.004 U	**0.00079 B**	--	--	--
Cadmium	0.005	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U	--	0.005 U	**0.0019 B**	--	--	--
Calcium metal	*	mg/L	**100**	**57**	**54**	**63**	**120**	**61**	--	**73**	**55**	--	--	--
Chromium	0.1	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	**0.006 B**	--	**0.0032 B**	**0.021**	--	--	--
Cobalt	*	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	**0.0041 B**	**0.0093 B**	--	**0.0069 B**	**0.016**	--	--	--
Copper	1.3	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	**0.0013 B**	**0.0097 B**	--	**0.0039 B**	**0.025**	--	--	--
Cyanide	0.2	mg/L	0.01 U	0.01 U	0.01 U	0.015 U	--	0.01 U	--	0.01 U	0.01 U	--	--	--
Iron	*	mg/L	**35**	**63**	**65**	**36**	**27**	**65 N**	--	**52**	**71 N**	--	--	--
Lead	0.015	mg/L	0.0028 U	**0.013**	**0.013**	**0.005**	**0.0021 B**	**0.018**	--	**0.0091**	**0.062**	--	--	--
Magnesium	*	mg/L	**27**	**28**	**28**	**28**	**44**	**30**	--	**34**	**30**	--	--	--
Manganese	*	mg/L	**1.3**	**3.7**	**3.3**	**1.2**	**0.97**	**2.5**	--	**1.7**	**2.3**	--	--	--
Mercury	0.002	mg/L	0.00020 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U	--	0.0002 U	0.00020 U	--	--	--
Nickel	0.1	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.040 U	0.04 U	--	0.04 U	**0.012 B**	--	--	--
Potassium	*	mg/L	**14**	**14**	**13**	**24**	**21**	**15**	--	**19**	**14**	--	--	--
Selenium	0.05	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U	--	0.01 U	0.01 U	--	--	--
Sodium	*	mg/L	**22**	**170**	**180**	**210**	**170**	**220**	--	**200**	**270**	--	--	--
Thallium	0.002	mg/L	0.002 U	0.001 U	0.001 U	0.002 U	0.0020 UWN	0.002 UWN	--	0.002 UN	0.002 U	--	--	--
Vanadium (fume or dust)	0.2	mg/L	0.01 U	0.01 U	**0.011**	0.01 U	0.010 U	**0.0075 B**	--	**0.0047 B**	**0.031**	--	--	--
Zinc	2	mg/L	0.02 U	0.02 U	0.02 U	**0.03**	0.020 U	**0.023**	--	**0.016 B**	**0.072**	--	--	--

Notes:
-- - Not analyzed
* - Not a HSRA regulated compounds
B (Inorganics) - Estimated analyte concentration
Bold - analyte detected
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
RRS - Risk Reduction Standard
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

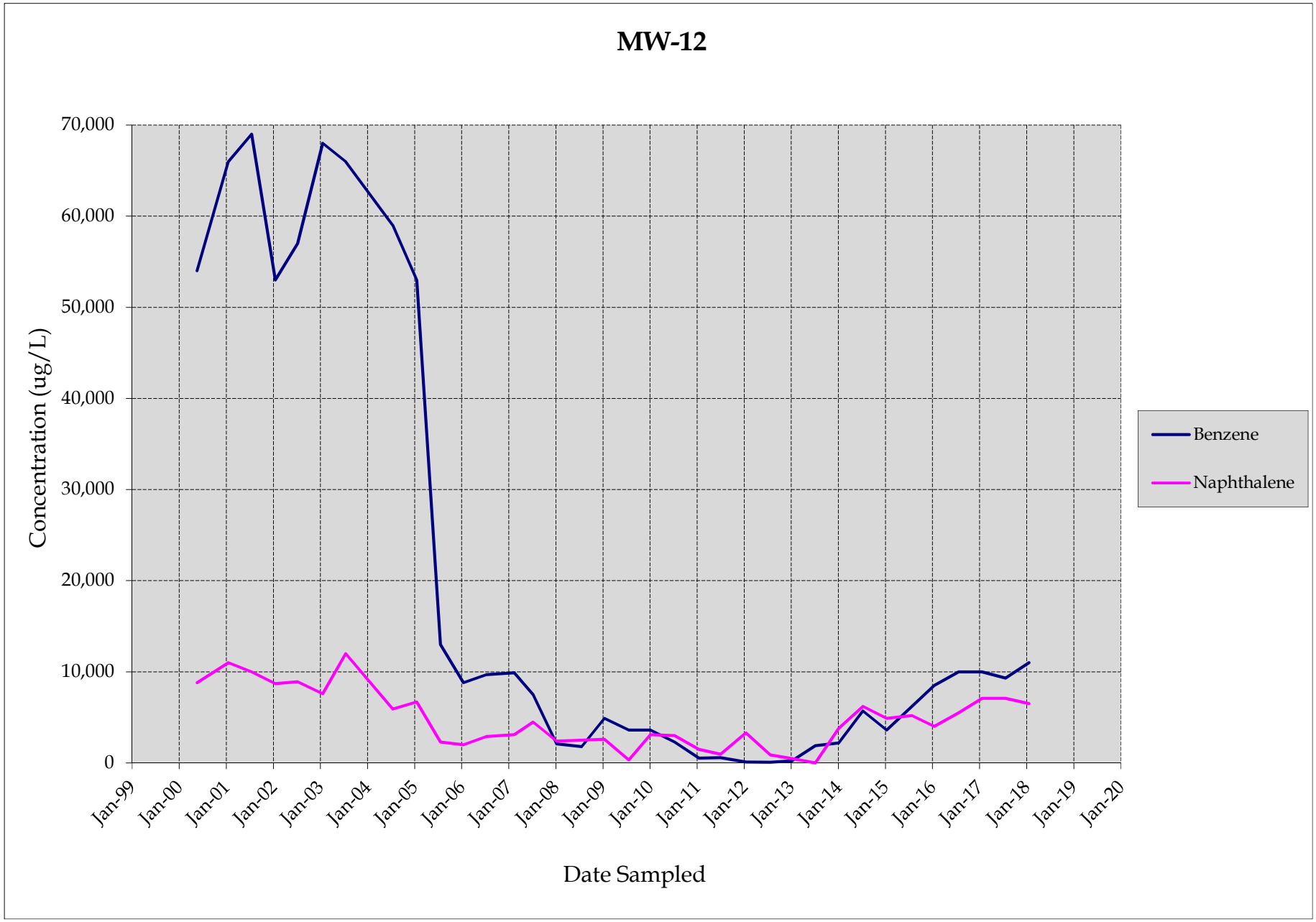
Appendix E-3
Summary of Historical Ground Water Sampling Data - Decommissioned Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Ga

Chemical Name	Type 1 Risk Reduction Standard	Location ID	TLC-14D					TLC-14S		
		Sample Date	4/3/2002	1/15/2002	7/10/2001	1/22/2001	1/22/2001	1/15/2002	7/11/2001	1/23/2001
		Sample ID	TLC14D-040302	TLC14D-011502	TLC14D-071001	010114D 012201	TLC14D	TLC14S-011502	TLC14S-071101	TLC14S 012301
		Unit								
Volatile Organic Compounds										
Acetone	4	mg/L	--	0.025 U	0.025 U	0.025 U	0.025 U	**0.018 J**	**0.022 J**	0.025 U
Benzene	0.005	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon Disulfide	4	mg/L	--	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichloromethane	0.005	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Ethylbenzene	0.7	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	1	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethylene	0.005	mg/L	0.001 U	**0.00027 J**	**0.00018 J**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylenes, total	2	mg/L	--	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Semivolatile Organic Compounds										
2-Methylnaphthalene	*	mg/L	--	0.01 U	0.01 U	0.01 U	0.01 U	--	0.017 U	0.01 U
Acenaphthene	2	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	**0.0042 J**	**0.0039 J**
Acenaphthylene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.017 U	0.01 U
Anthracene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	**0.0008 J**	0.01 U
Benz(a)anthracene	0.0001	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.017 U	0.01 U
Benzo(a)pyrene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.017 U	0.01 U
Benzo(b)fluoranthene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.017 U	0.01 U
Benzo(g,h,i)perylene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.017 U	0.01 U
Benzo(k)fluoranthene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.017 U	0.01 U
Chrysene	0.0002	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.017 U	0.01 U
Dibenzo(a,h)anthracene	0.003	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.017 U	0.01 U
Dibenzofuran	0.001	mg/L	--	0.01 U	0.01 U	0.01 U	0.01 U	--	0.017 U	0.01 U
Fluoranthene	1	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	**0.00077 J**	**0.00076 J**
Fluorene	1	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	**0.0012 J**	**0.00095 J**
Indeno(1,2,3-cd)pyrene	0.0004	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.017 U	0.01 U
Naphthalene	0.02	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	0.017 U	0.01 U
Phenanthrene	*	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	**0.005 J**	**0.0022 J**
Pyrene	1	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	**0.0012 J**	**0.00095 J**
Inorganic Compounds										
Aluminum (fume or dust)	*	mg/L	--	**0.21 N**	**0.52**	**5.8 N**	**3.1 N**	--	--	--
Antimony	0.01	mg/L	--	0.020 U	0.02 U	0.02 U	0.02 U	--	--	--
Arsenic	0.05	mg/L	--	0.010 U	0.01 U	0.01 U	0.01 U	--	--	--
Barium	2	mg/L	--	**0.26**	**0.26**	**0.3**	**0.29**	--	--	--
Beryllium	0.004	mg/L	--	0.0040 U	0.004 U	0.004 U	0.004 U	--	--	--
Cadmium	0.005	mg/L	--	0.0050 U	0.005 U	0.005 U	0.005 U	--	--	--
Calcium metal	*	mg/L	--	**27**	**29**	**29**	**30**	--	--	--
Chromium	0.1	mg/L	--	0.010 U	0.01 U	**0.0068 B**	**0.0037 B**	--	--	--
Cobalt	*	mg/L	--	0.010 U	**0.0024 B**	**0.0029 B**	**0.0022 B**	--	--	--
Copper	1.3	mg/L	--	0.020 U	0.02 U	**0.0078 B**	**0.0049 B**	--	--	--
Cyanide	0.2	mg/L	--	0.010 U	0.01 U	0.01 U	0.01 U	--	--	--
Iron	*	mg/L	--	**12 N**	**13**	**14**	**14**	--	--	--
Lead	0.015	mg/L	--	**0.0017 B**	0.005 U	**0.011**	**0.0041 B**	--	--	--
Magnesium	*	mg/L	--	**19**	**20**	**20**	**21**	--	--	--
Manganese	*	mg/L	--	**1.7**	**1.8**	**1.8**	**1.9**	--	--	--
Mercury	0.002	mg/L	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	--	--	--
Nickel	0.1	mg/L	--	0.040 U	0.04 U	0.04 U	0.04 U	--	--	--
Potassium	*	mg/L	--	**2.7**	**2.8**	**3.0**	**2.9**	--	--	--
Selenium	0.05	mg/L	--	0.010 U	**0.0048 B**	0.01 U	0.01 U	--	--	--
Sodium	*	mg/L	--	**19**	**19**	**19**	**20**	--	--	--
Thallium	0.002	mg/L	--	0.0020 U	0.002 U	0.002 U	0.002 UW	--	--	--
Vanadium (fume or dust)	0.2	mg/L	--	0.010 U	0.01 U	**0.0069 B**	**0.0035 B**	--	--	--
Zinc	2	mg/L	--	0.020 U	0.02 U	**0.016 B**	**0.022**	--	--	--

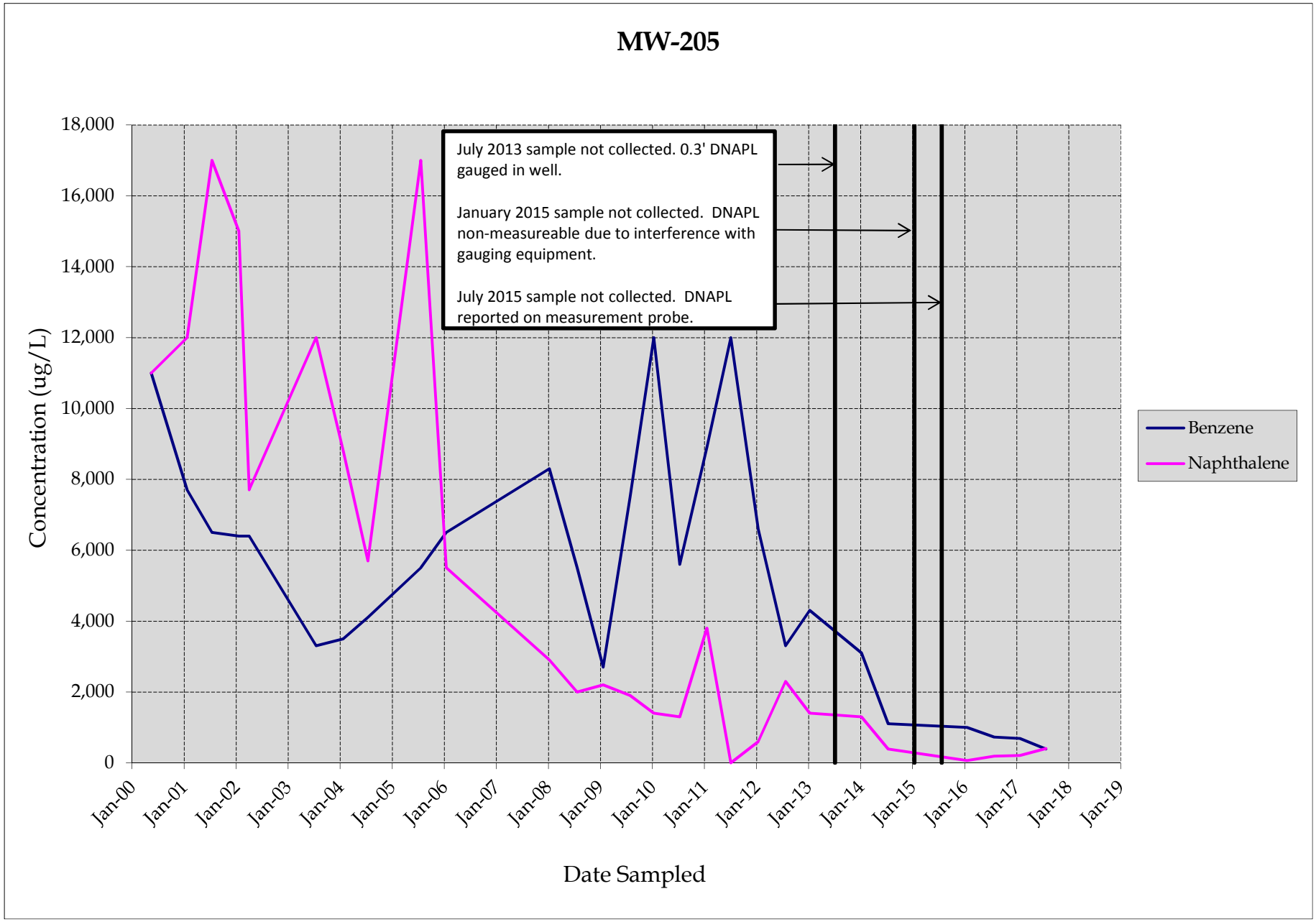
Notes:
-- - Not analyzed
* - Not a HSRA regulated compounds
B (Inorganics) - Estimated analyte concentration
Bold - analyte detected
Bold and shaded - Analyte concentration exceeds the Type 1 RRS
D - Analyte concentration reported from secondary dilution
DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
JM (Organic) - Estimated analyte concentration; spike sample recovery outside control limits
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
RRS - Risk Reduction Standard
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample recovery outside of control limits
UR - Analyte not detected; data rejected
UWN - Analyte not detected; post digestion spike and spike sample recovery outside control limits

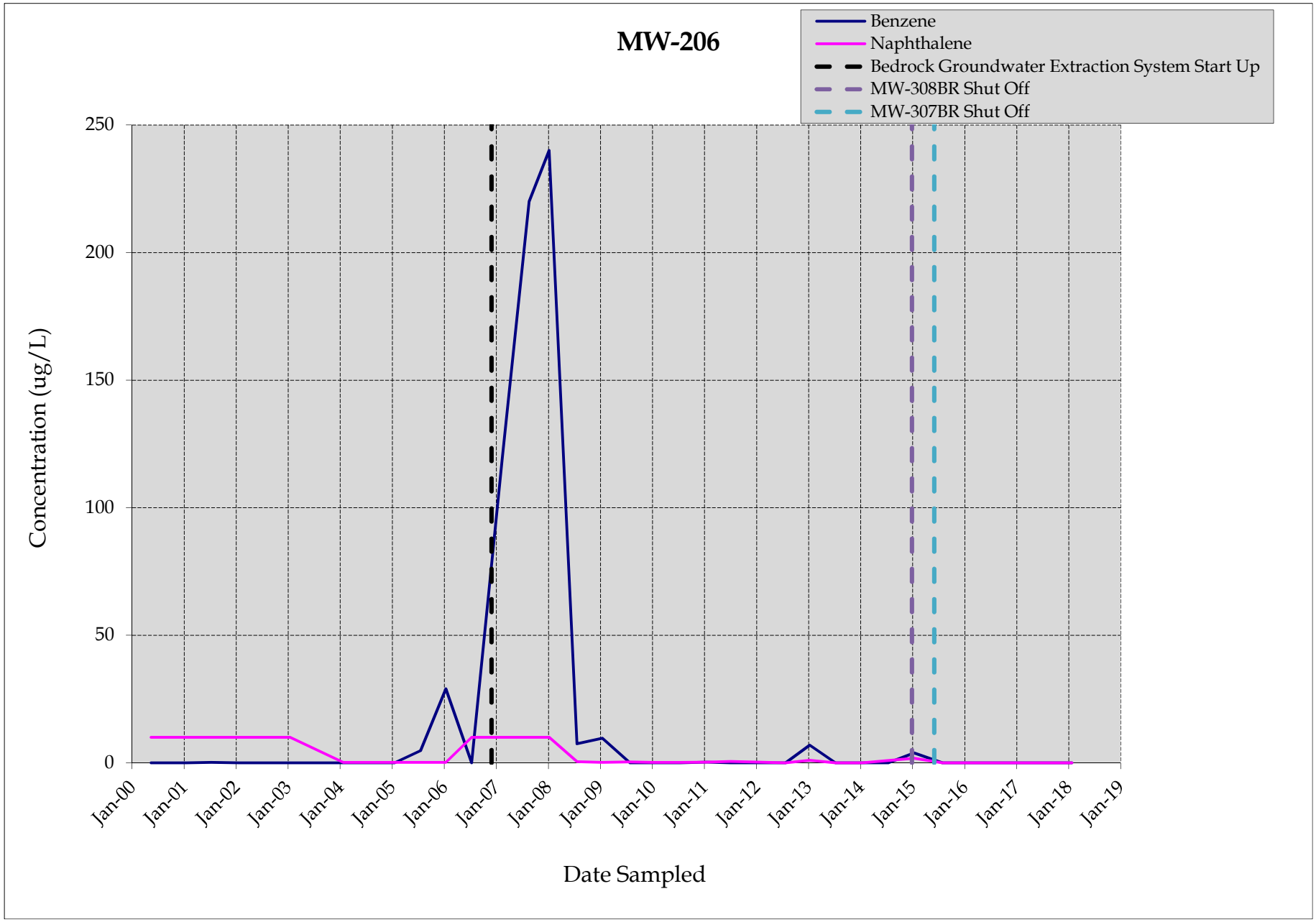
APPENDIX F

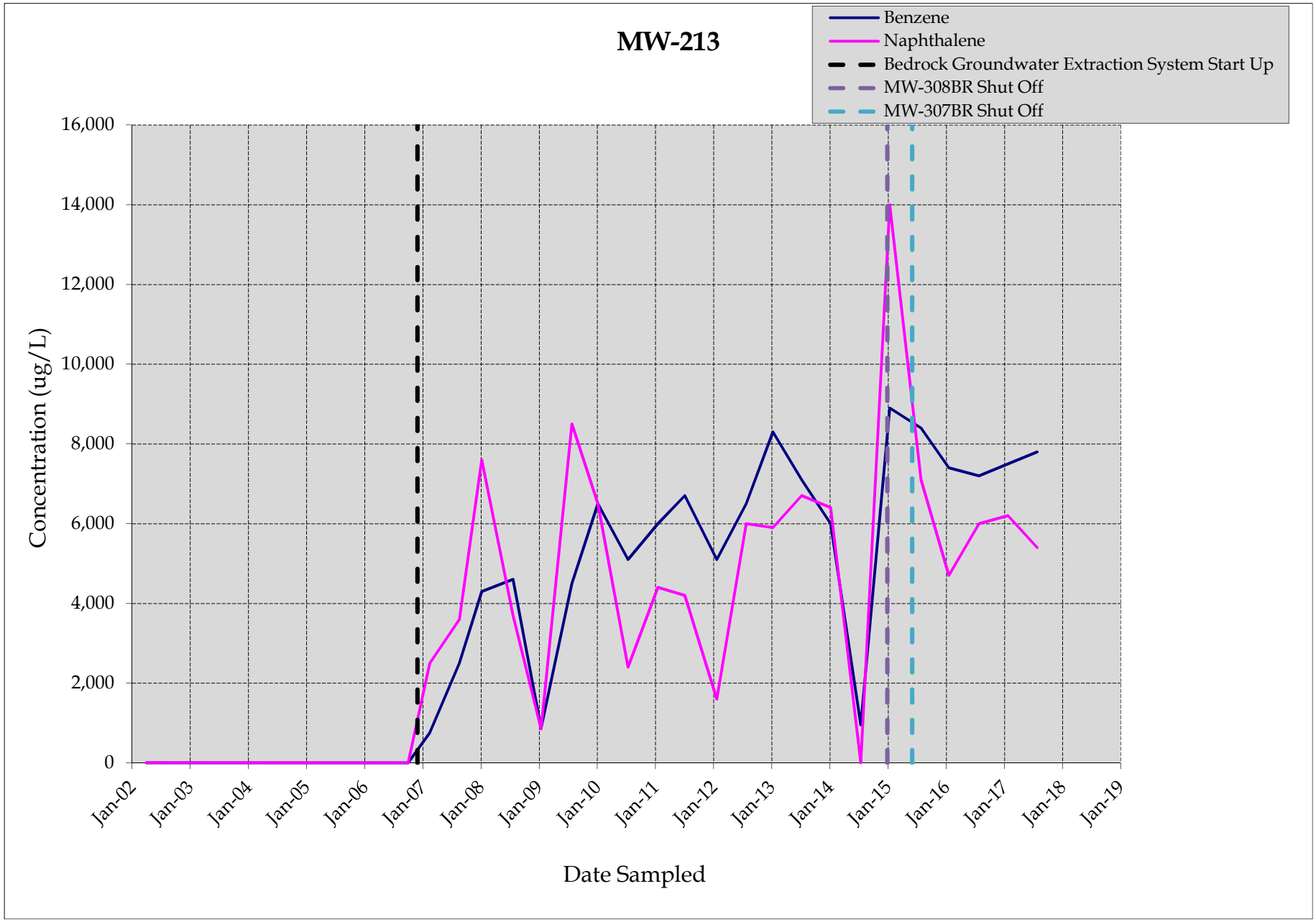
CONCENTRATION TREND GRAPHS

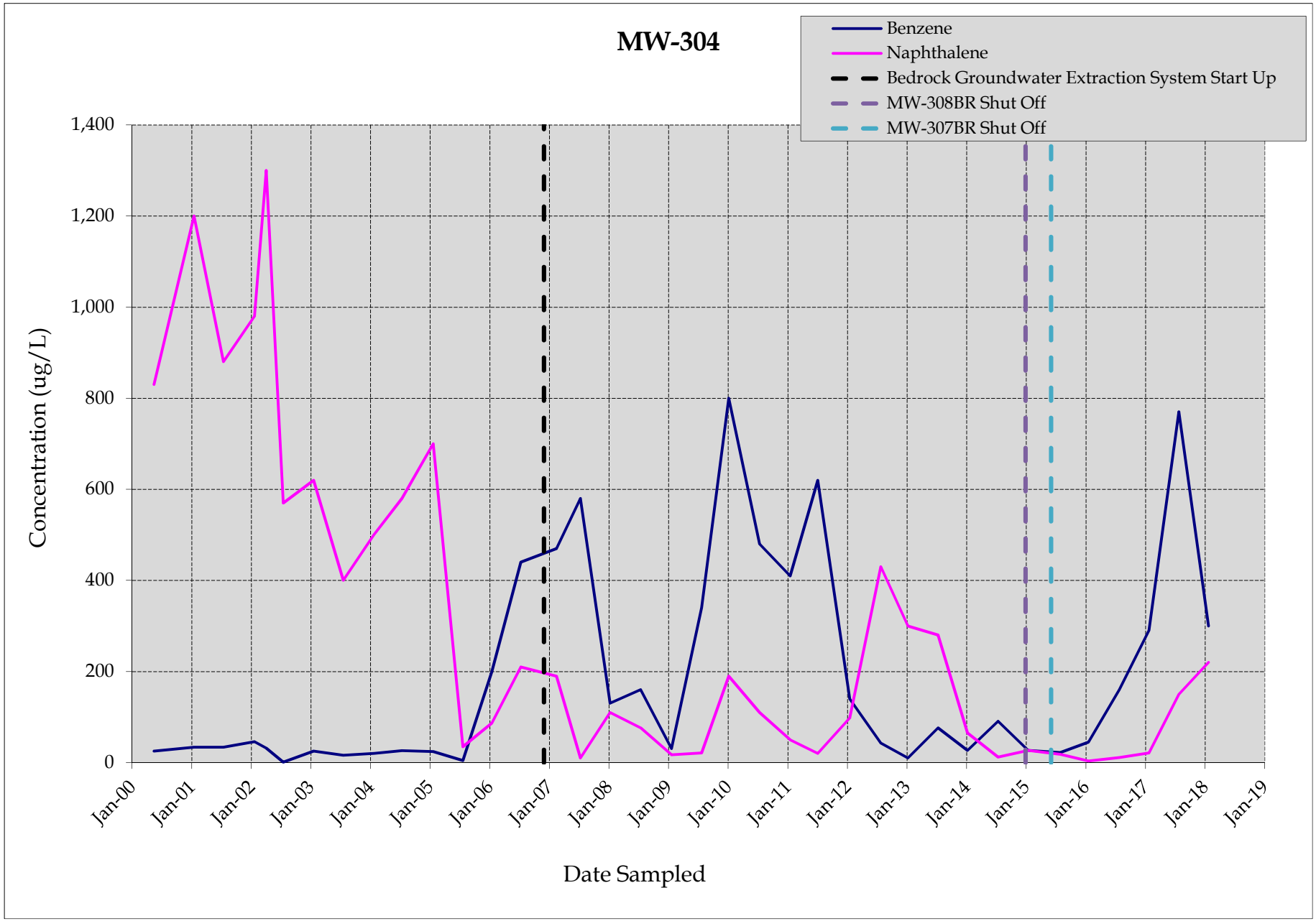


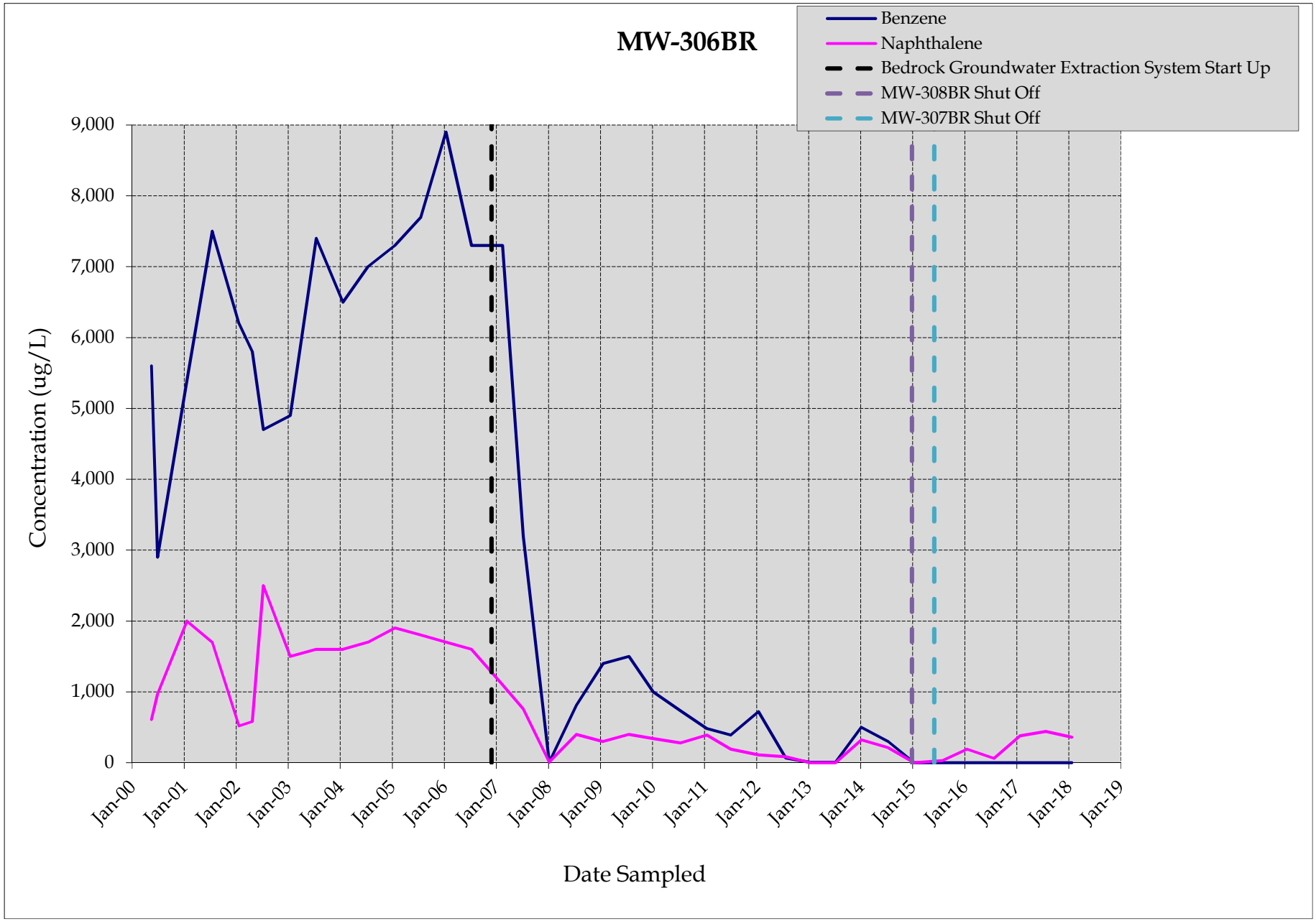
Prepared by/date: RJB 2/22/18
Checked by/date: RMB 2/23/18
Appendix F

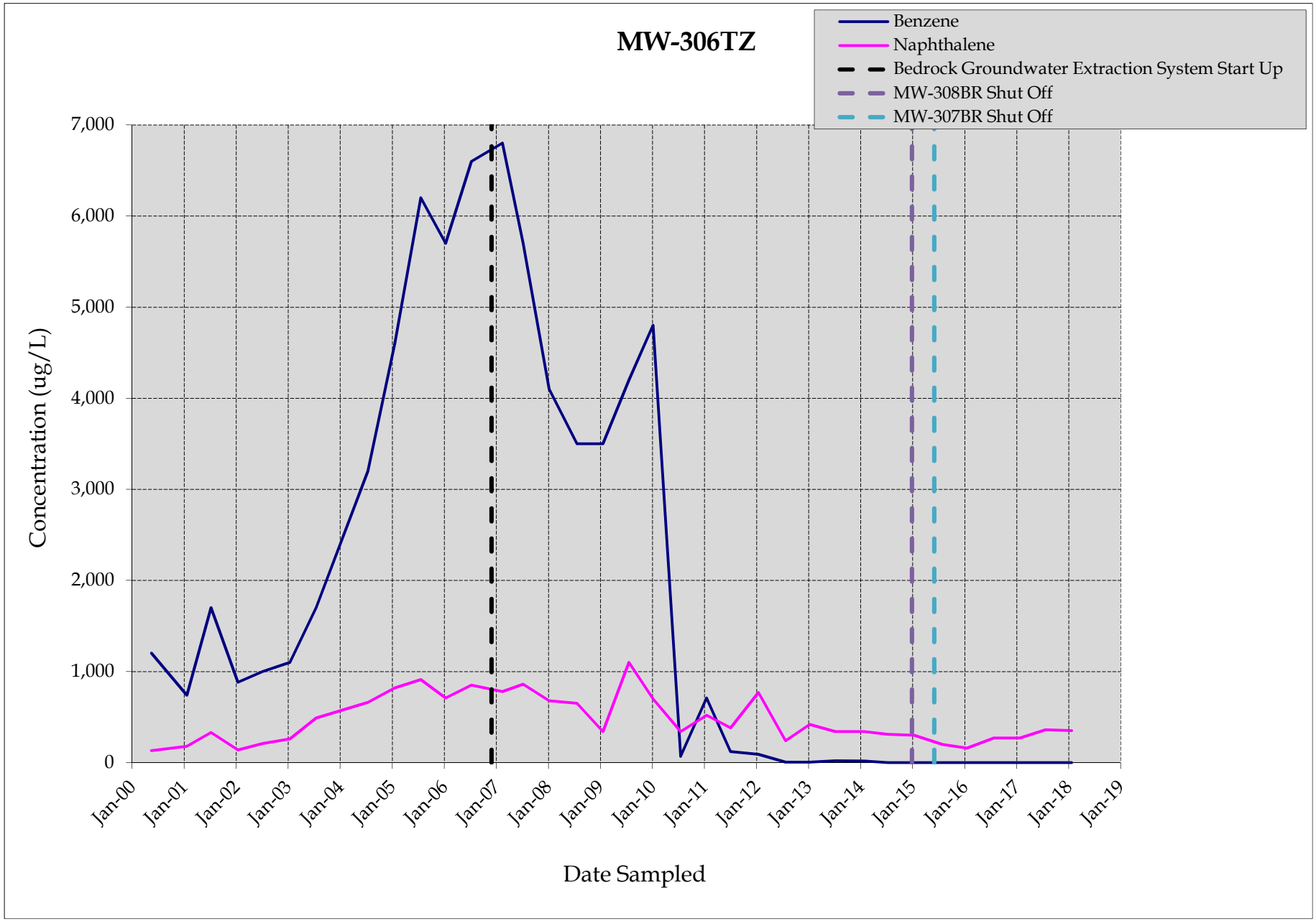

MW-205
July 2013 sample not collected. 0.3' DNAPL gauged in well.
January 2015 sample not collected. DNAPL non-measureable due to interference with gauging equipment.
July 2015 sample not collected. DNAPL reported on measurement probe.
Concentration (ug/L)
18,000
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Date Sampled
Benzene
Naphthalene

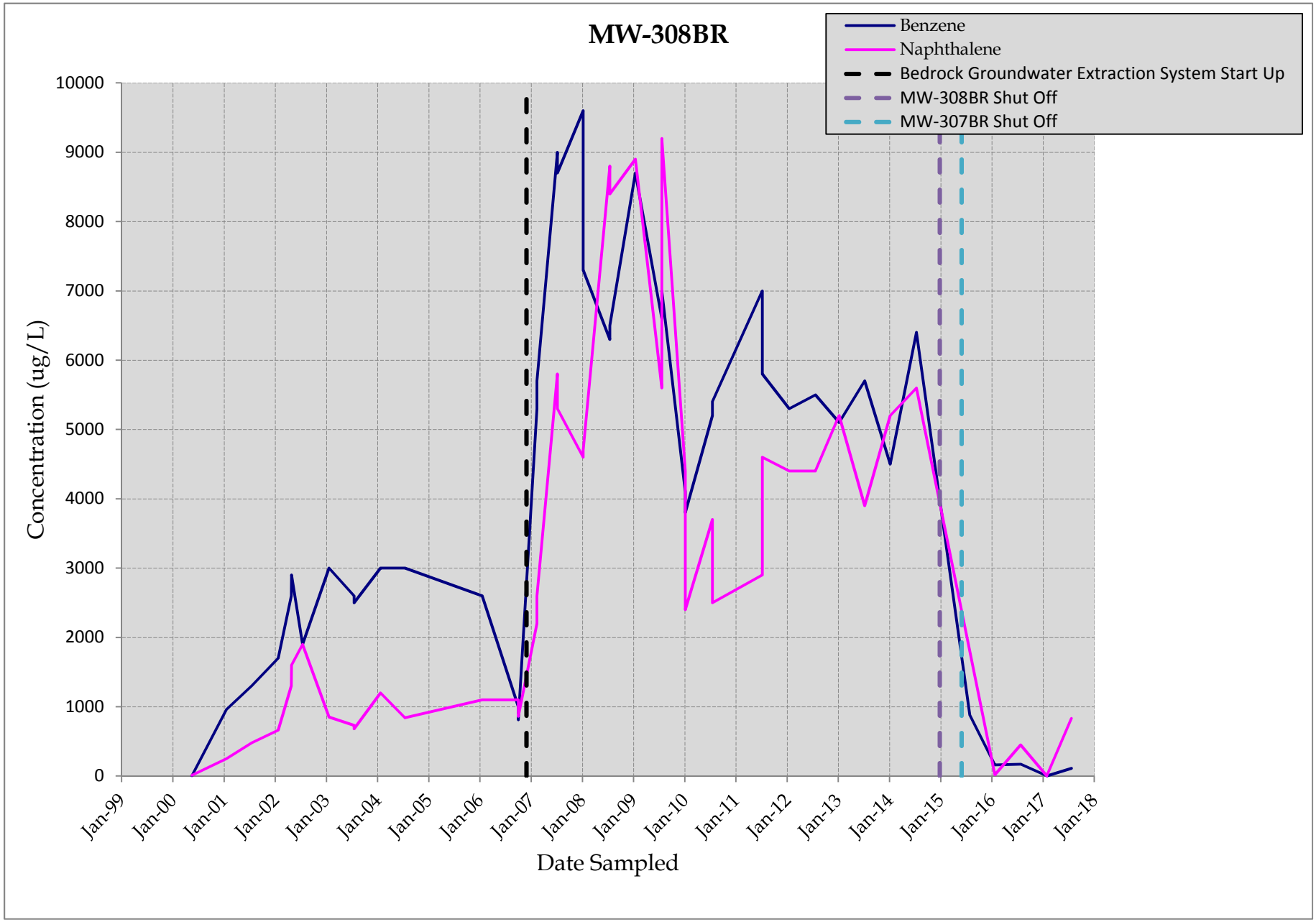

MW-206
Benzene
Naphthalene
Bedrock Groundwater Extraction System Start Up
MW-308BR Shut Off
MW-307BR Shut Off
Concentration (ug/L)
250
200
150
100
50
0
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Date Sampled

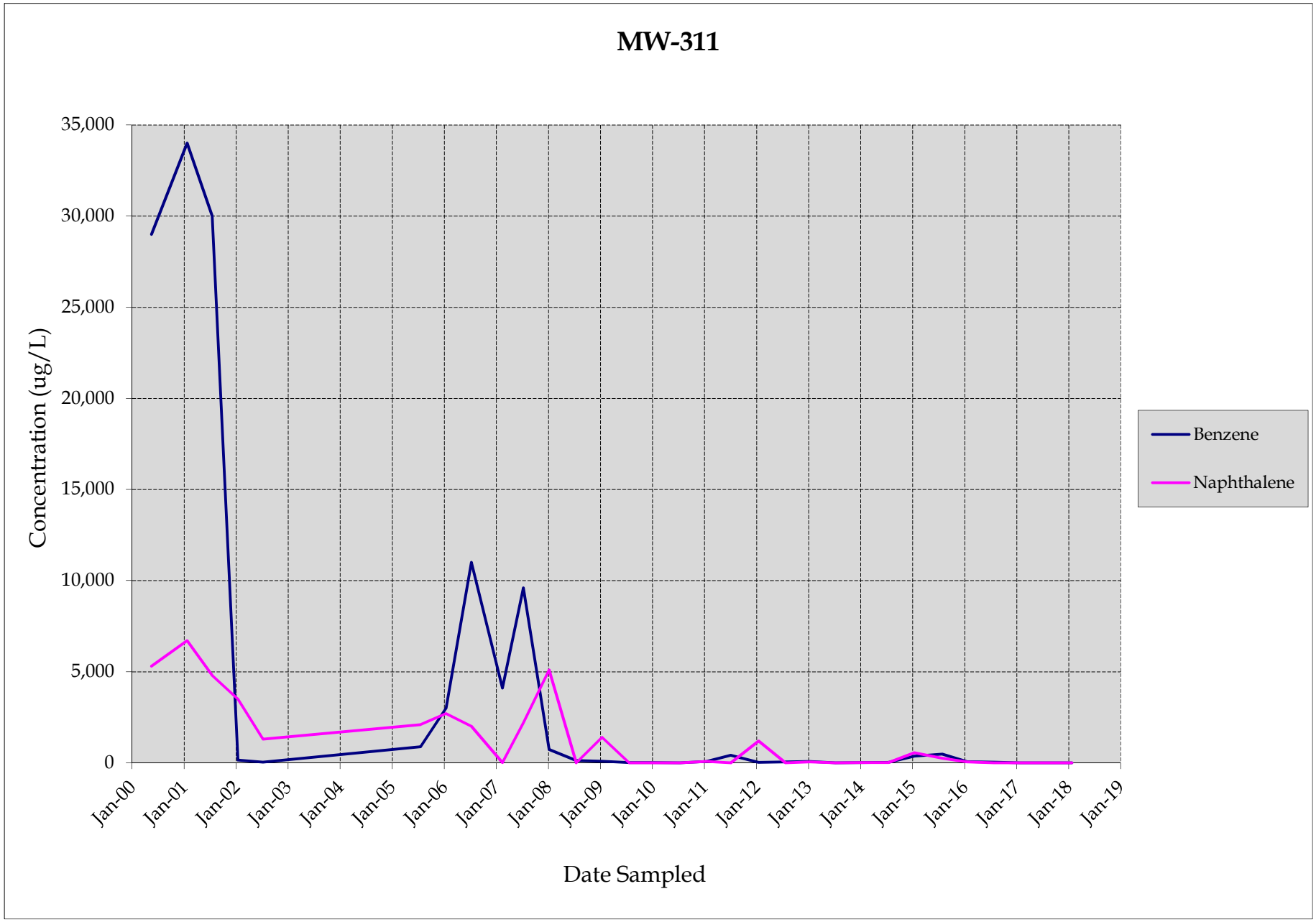

MW-213
Benzene
Naphthalene
Bedrock Groundwater Extraction System Start Up
MW-308BR Shut Off
MW-307BR Shut Off
Concentration (ug/L)
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Date Sampled

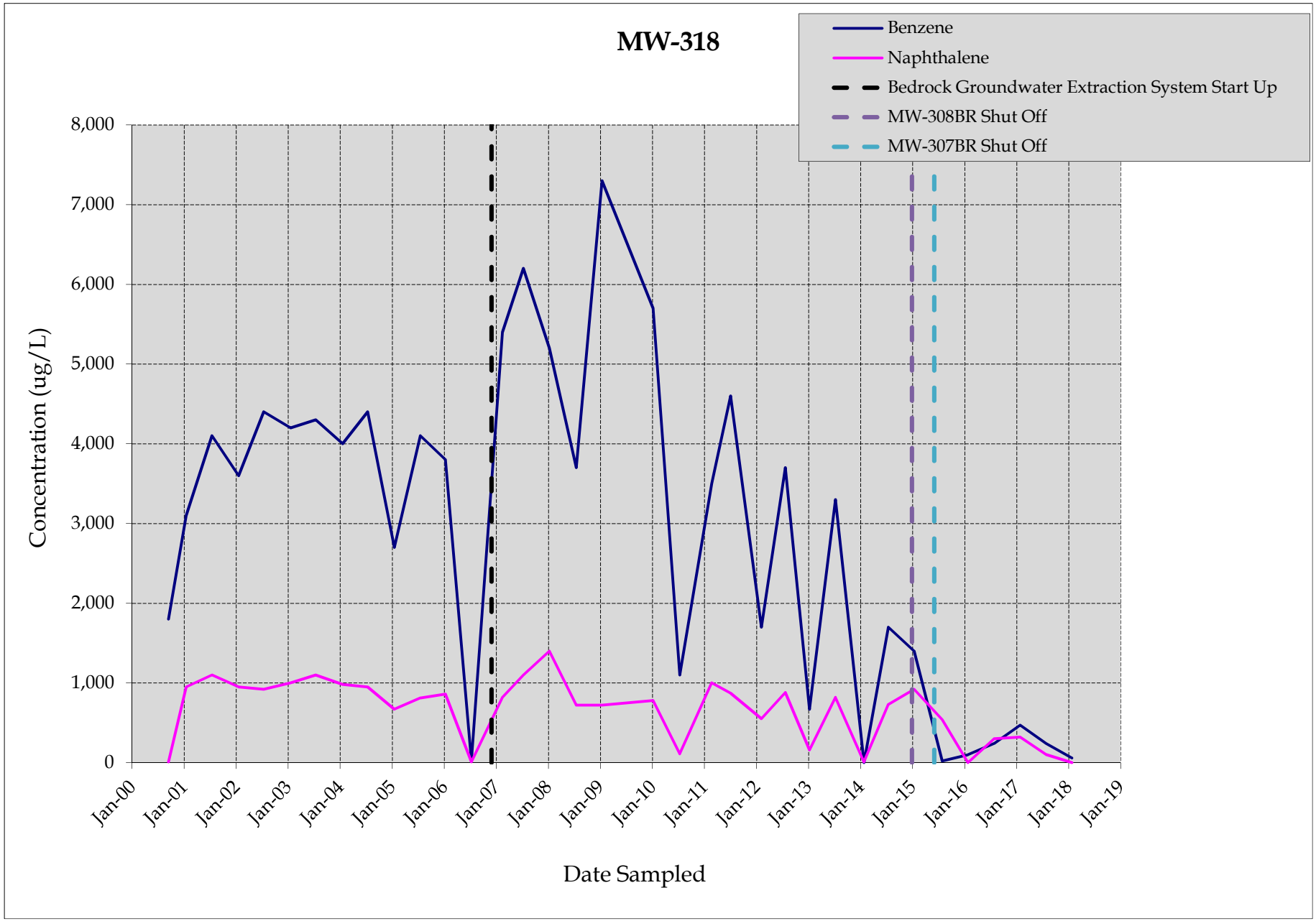

MW-304
Benzene
Naphthalene
Bedrock Groundwater Extraction System Start Up
MW-308BR Shut Off
MW-307BR Shut Off
Concentration (ug/L)
1,400
1,200
1,000
800
600
400
200
0
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Date Sampled

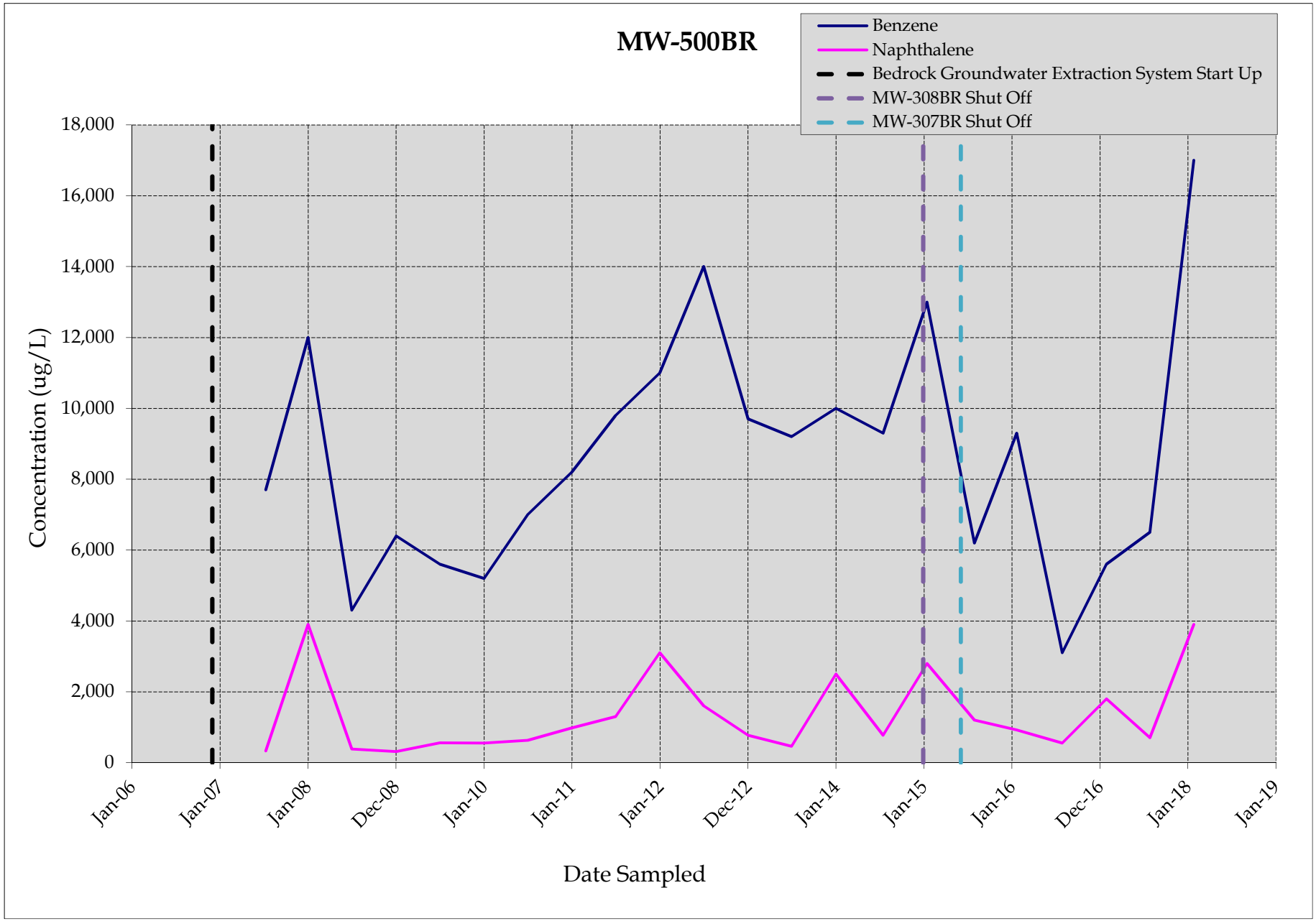

MW-306BR
Benzene
Naphthalene
Bedrock Groundwater Extraction System Start Up
MW-308BR Shut Off
MW-307BR Shut Off
Concentration (ug/L)
9,000
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Date Sampled

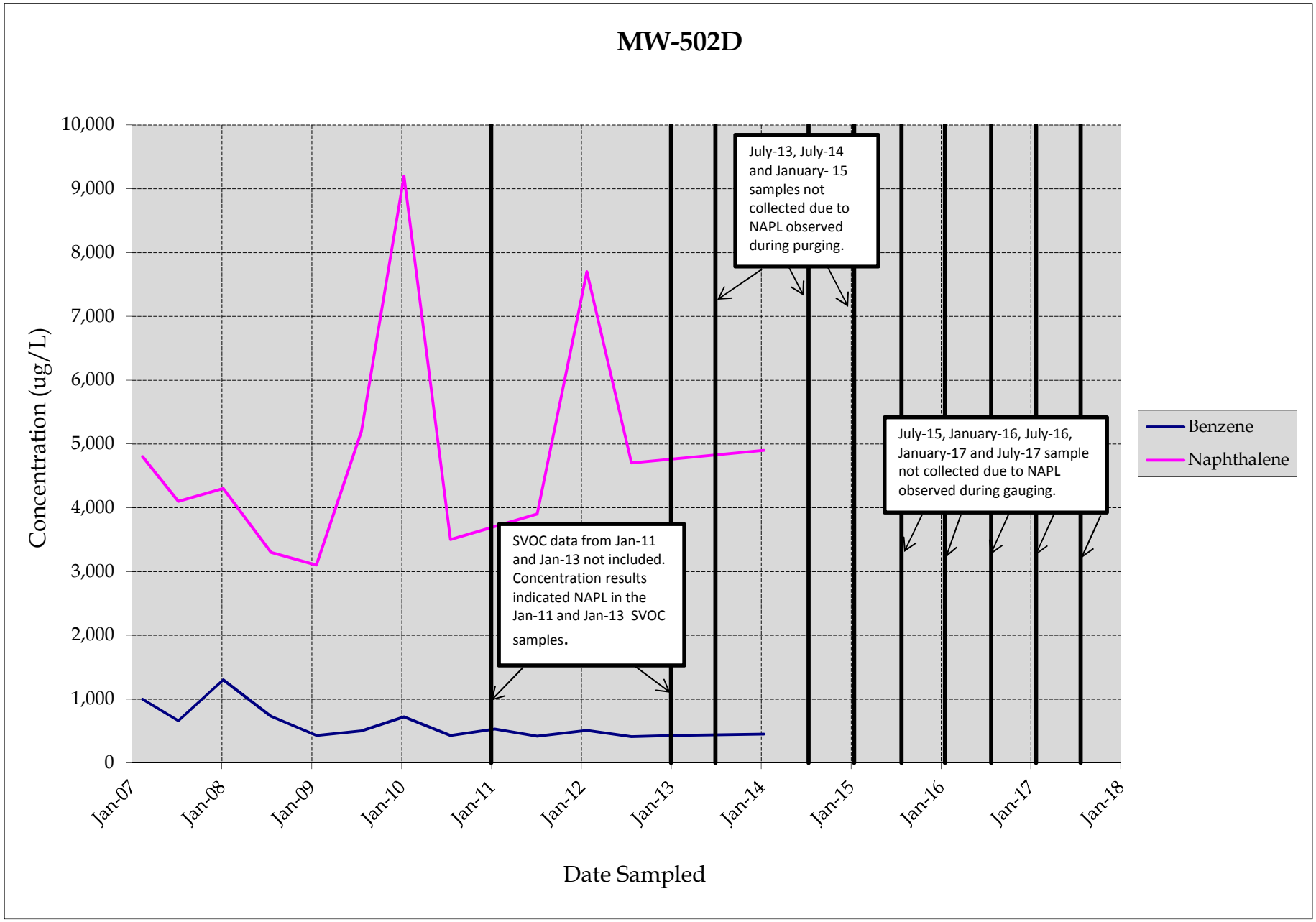

MW-306TZ
Benzene
Naphthalene
Bedrock Groundwater Extraction System Start Up
MW-308BR Shut Off
MW-307BR Shut Off
Concentration (ug/L)
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Date Sampled

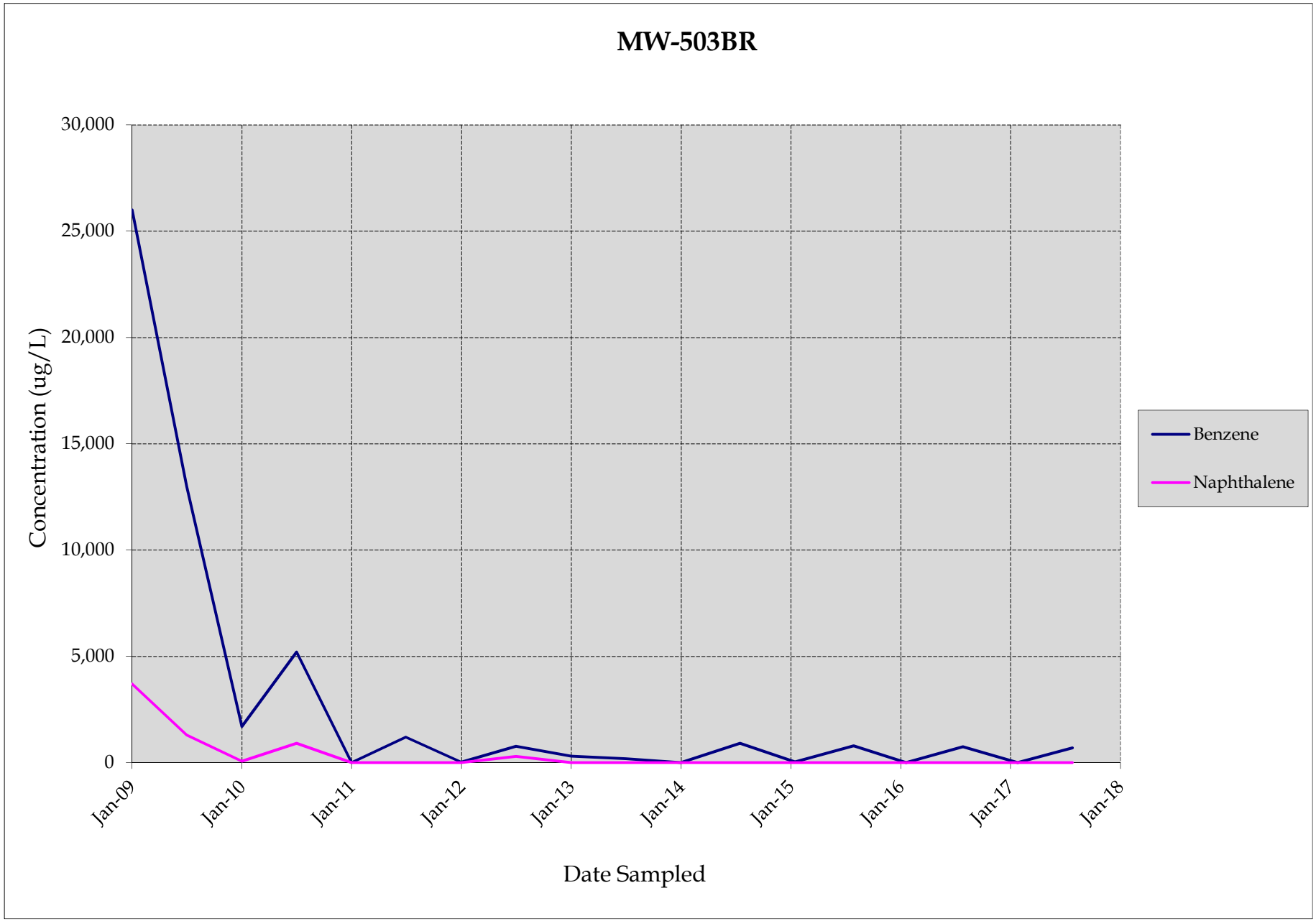

MW-308BR
Benzene
Naphthalene
Bedrock Groundwater Extraction System Start Up
MW-308BR Shut Off
MW-307BR Shut Off
Concentration (ug/L)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Date Sampled

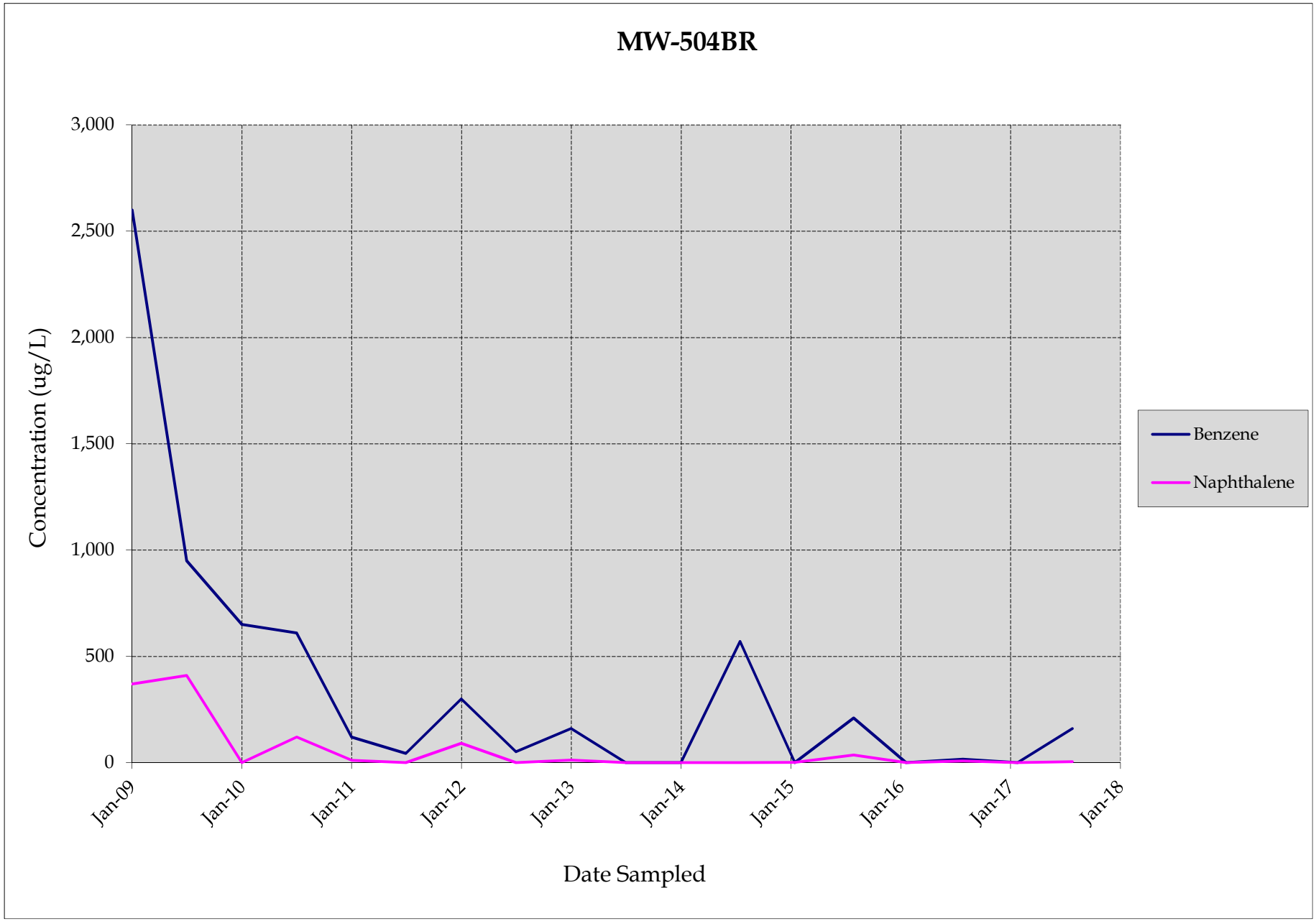

MW-311
35,000
30,000
25,000
20,000
15,000
10,000
5,000
0
Concentration (ug/L)
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Date Sampled
Benzene
Naphthalene


MW-318
Benzene
Naphthalene
Bedrock Groundwater Extraction System Start Up
MW-308BR Shut Off
MW-307BR Shut Off
Concentration (ug/L)
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Date Sampled

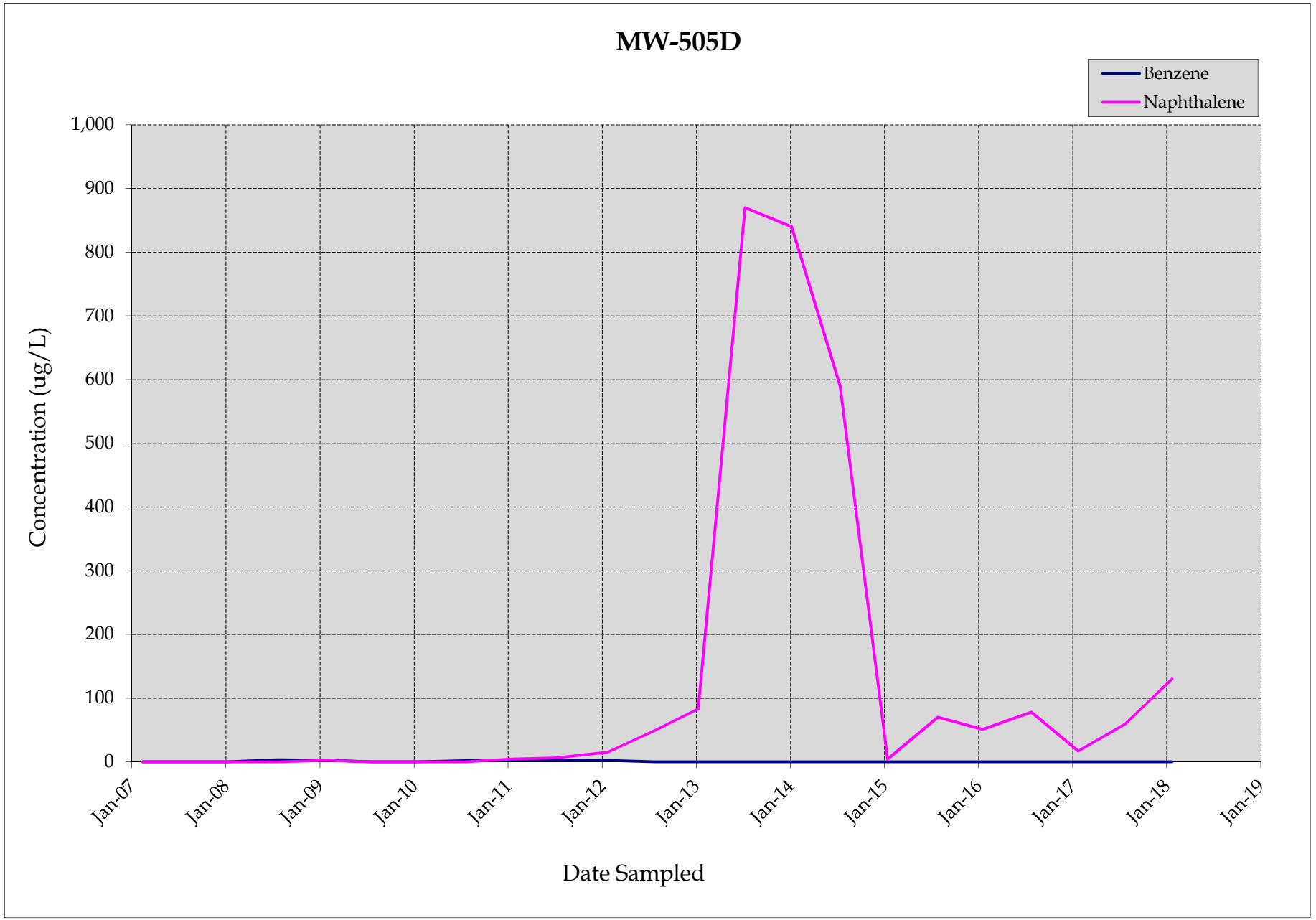

MW-500BR
Benzene
Naphthalene
Bedrock Groundwater Extraction System Start Up
MW-308BR Shut Off
MW-307BR Shut Off
Concentration (ug/L)
18,000
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
Jan-06
Jan-07
Jan-08
Dec-08
Jan-10
Jan-11
Jan-12
Dec-12
Jan-14
Jan-15
Jan-16
Dec-16
Jan-18
Jan-19
Date Sampled

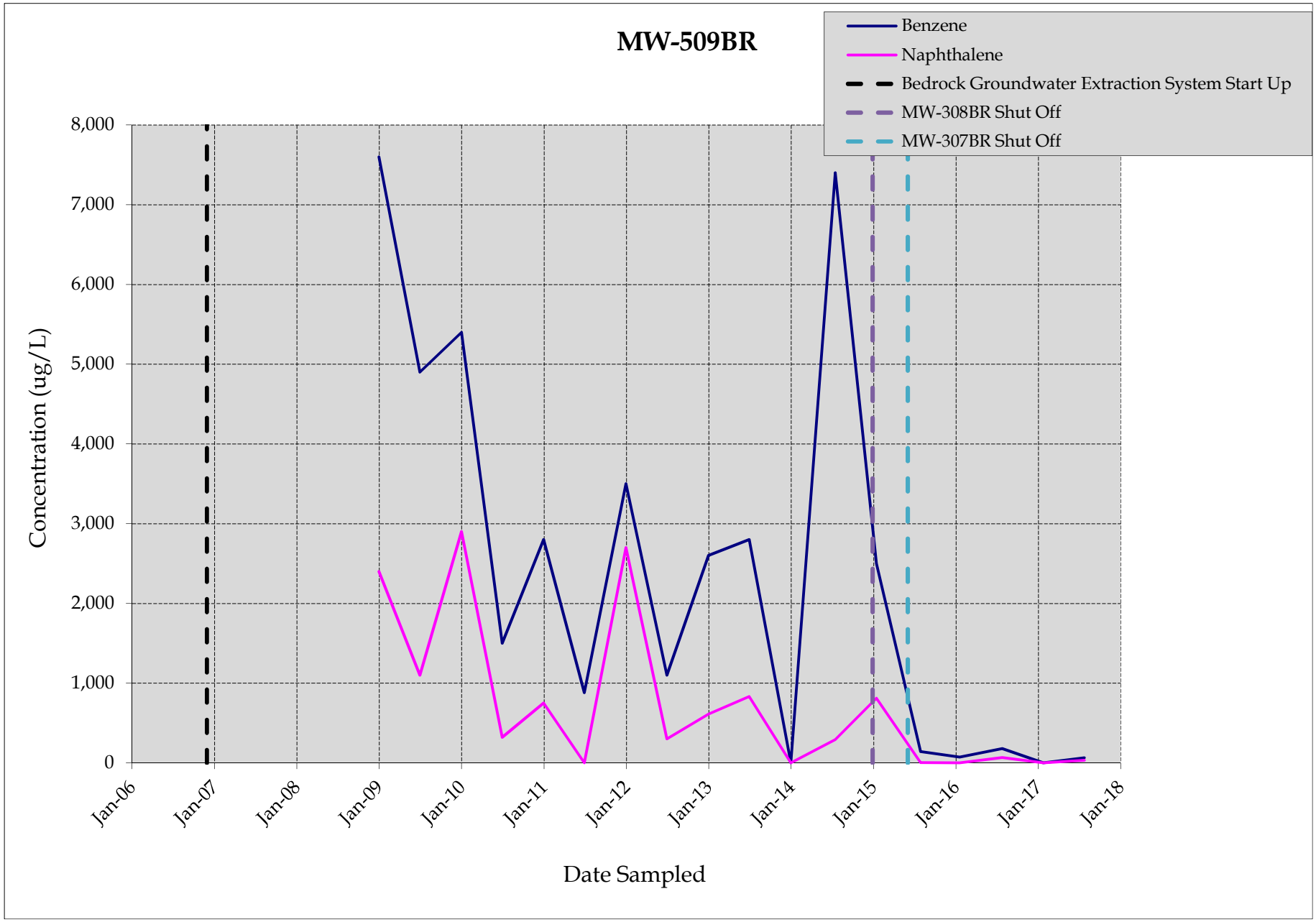

MW-502D
Concentration (ug/L)
10,000
9,000
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Date Sampled
July-13, July-14 and January- 15 samples not collected due to NAPL observed during purging.
July-15, January-16, July-16, January-17 and July-17 sample not collected due to NAPL observed during gauging.
SVOC data from Jan-11 and Jan-13 not included. Concentration results indicated NAPL in the Jan-11 and Jan-13 SVOC samples.
Benzene
Naphthalene

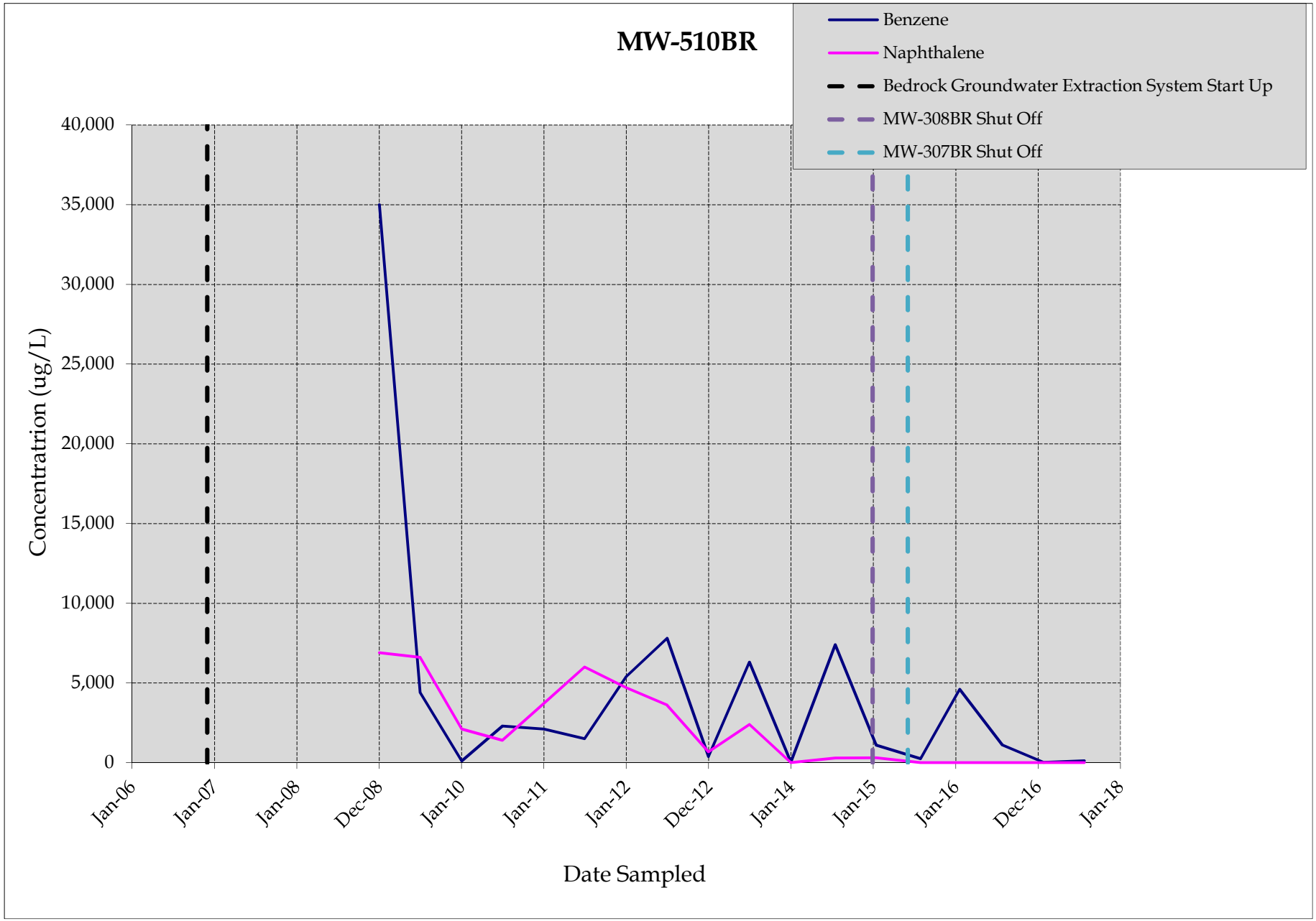

MW-503BR
30,000
25,000
20,000
15,000
10,000
5,000
0
Concentration (ug/L)
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Date Sampled
Benzene
Naphthalene

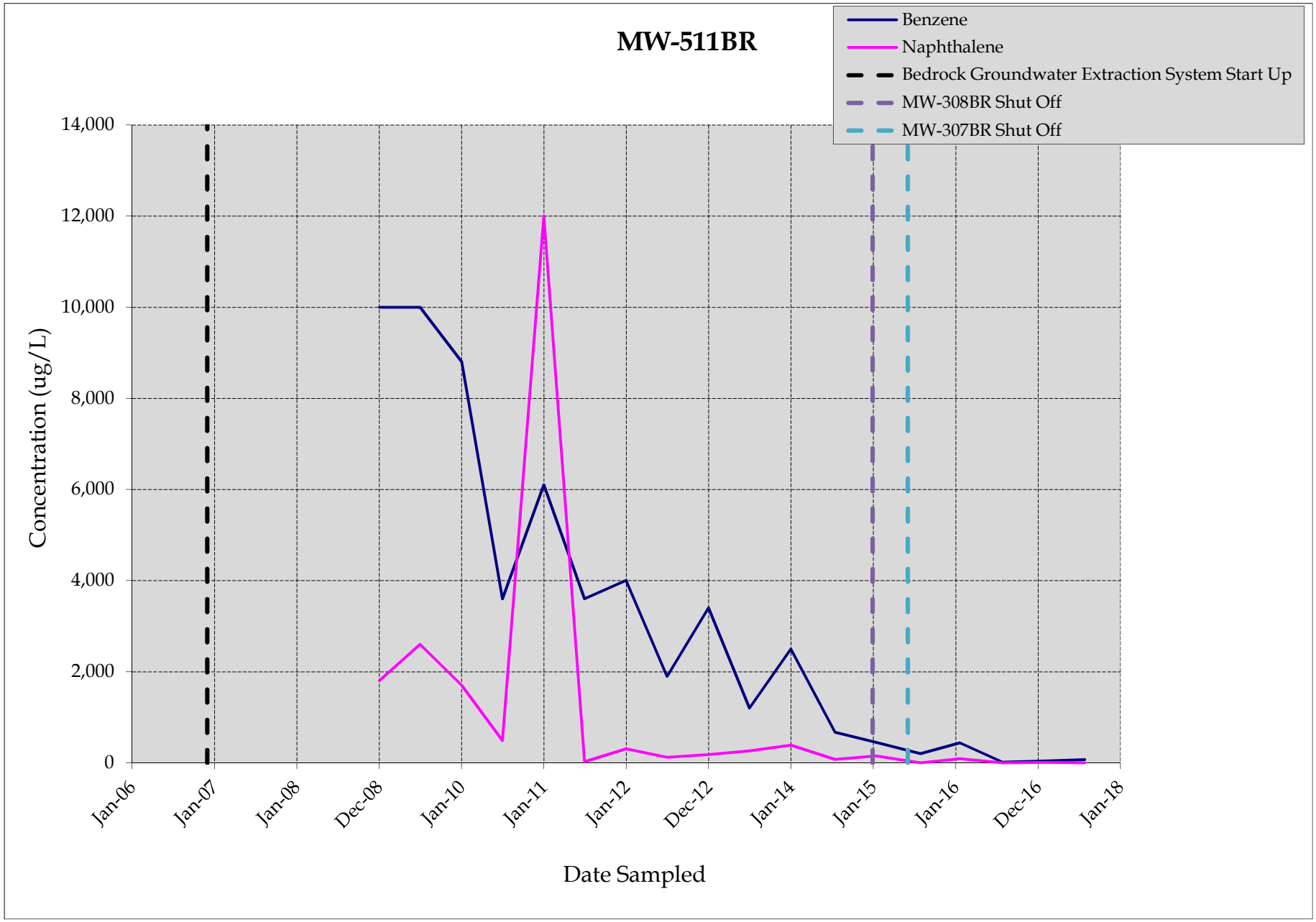


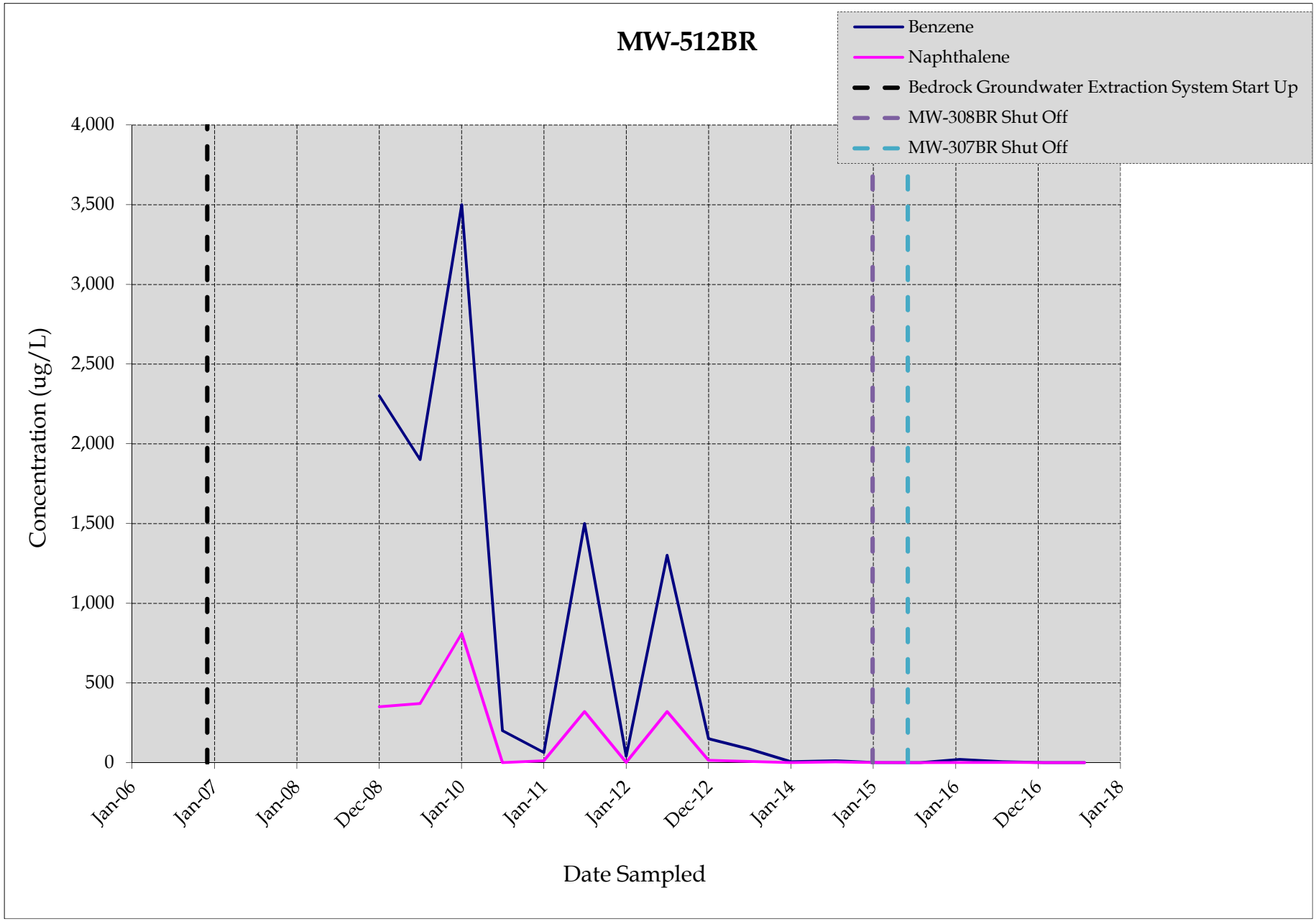
Prepared by/date: RJB 2/22/18
Checked by/date: RMB 2/23/18
Appendix F

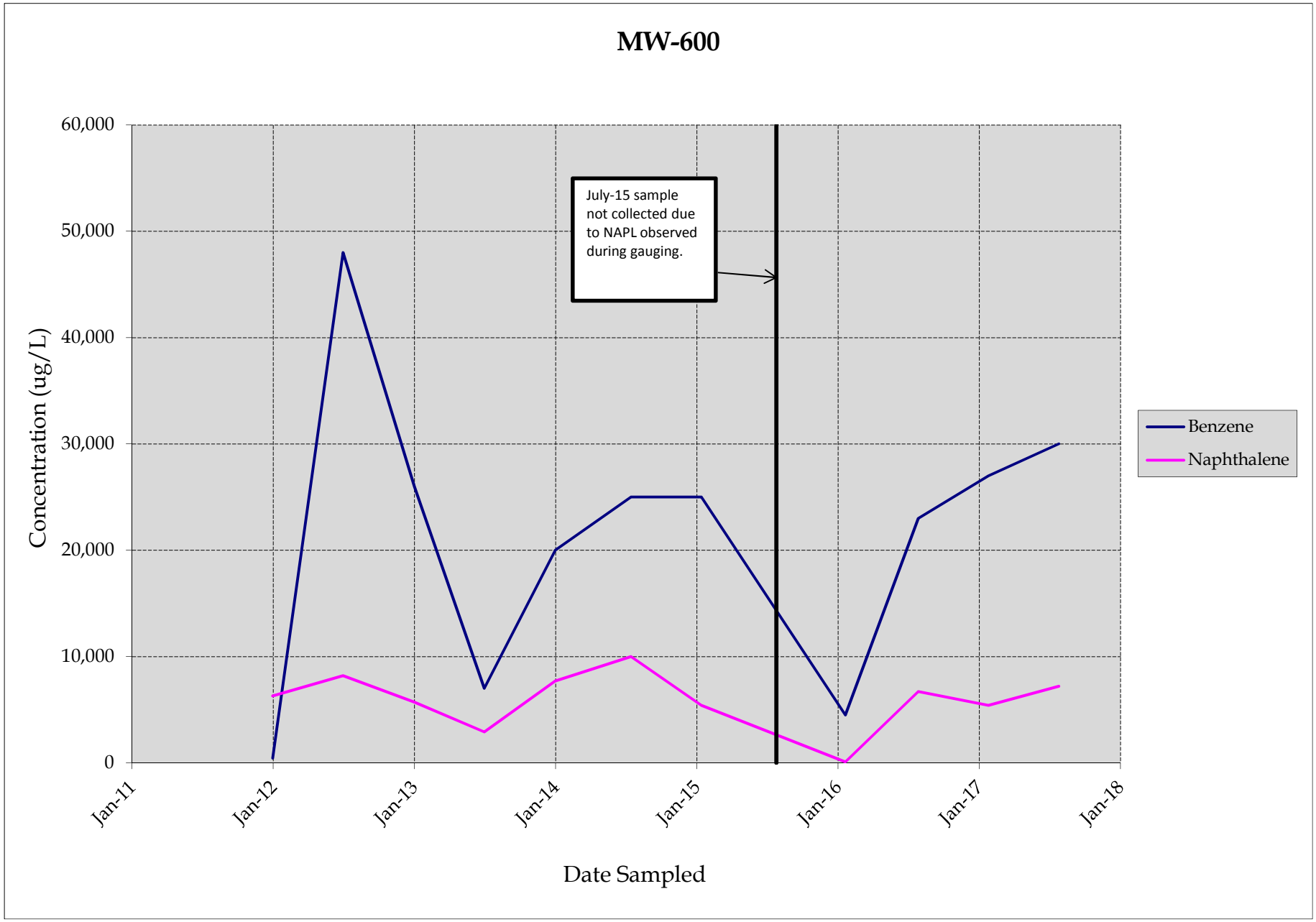

MW-505D
Benzene
Naphthalene
1,000
900
800
700
600
500
400
300
200
100
0
Concentration (ug/L)
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Date Sampled


MW-509BR
Benzene
Naphthalene
Bedrock Groundwater Extraction System Start Up
MW-308BR Shut Off
MW-307BR Shut Off
Concentration (ug/L)
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Date Sampled

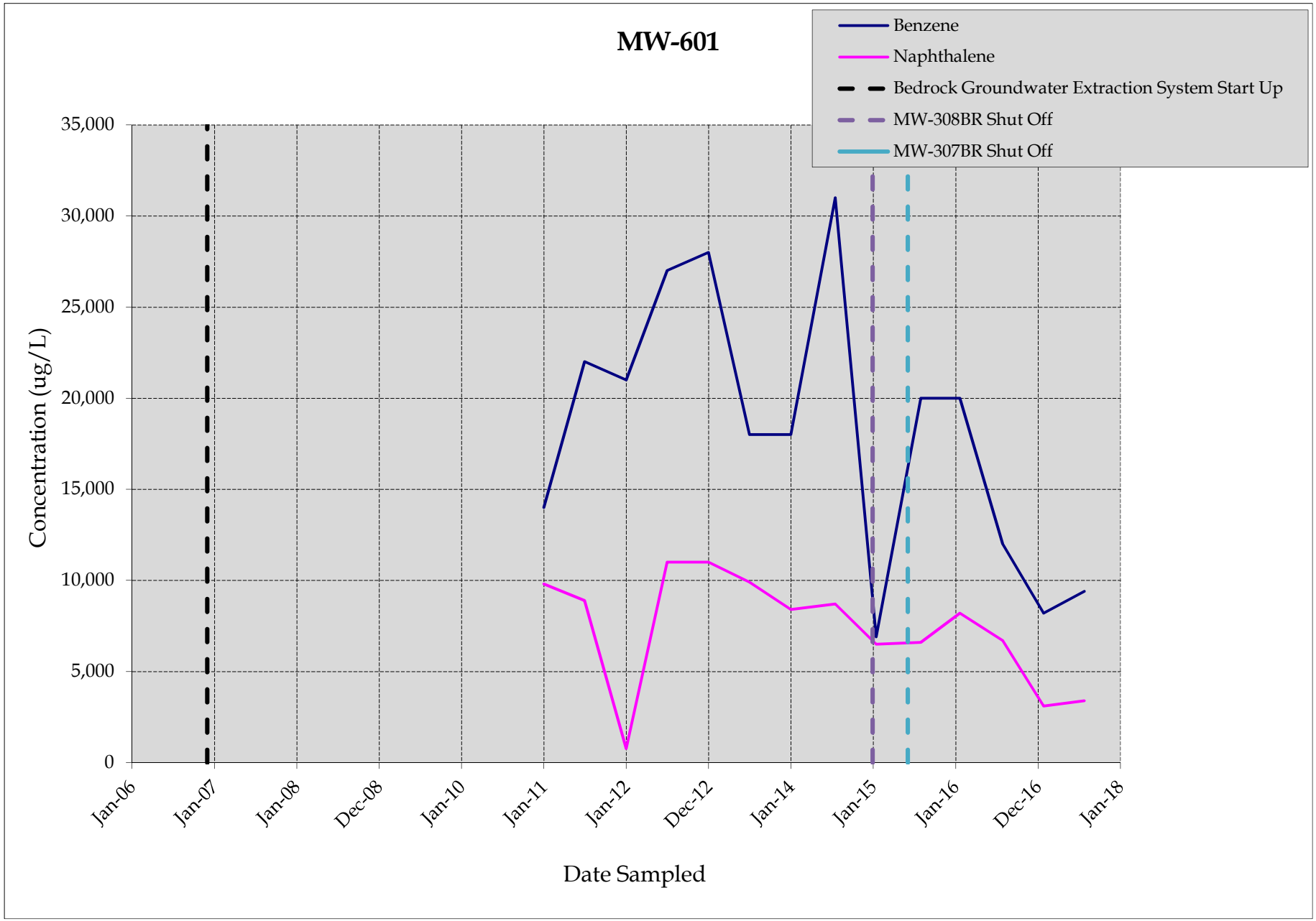

MW-510BR
Benzene
Naphthalene
Bedrock Groundwater Extraction System Start Up
MW-308BR Shut Off
MW-307BR Shut Off
Concentration (ug/L)
40,000
35,000
30,000
25,000
20,000
15,000
10,000
5,000
0
Jan-06
Jan-07
Jan-08
Dec-08
Jan-10
Jan-11
Jan-12
Dec-12
Jan-14
Jan-15
Jan-16
Dec-16
Jan-18
Date Sampled

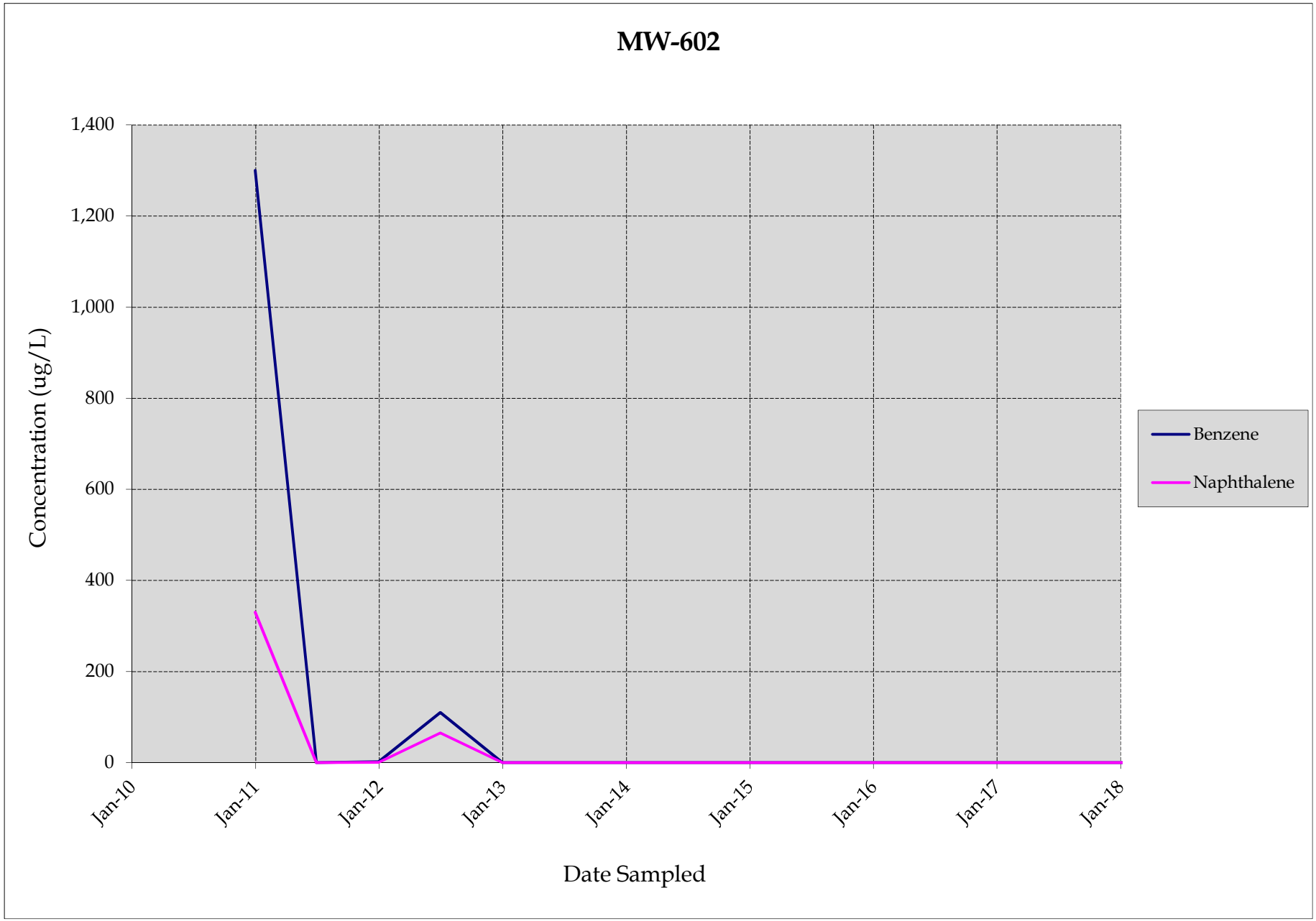

MW-511BR
Benzene
Naphthalene
Bedrock Groundwater Extraction System Start Up
MW-308BR Shut Off
MW-307BR Shut Off
Concentration (ug/L)
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
Jan-06
Jan-07
Jan-08
Dec-08
Jan-10
Jan-11
Jan-12
Dec-12
Jan-14
Jan-15
Jan-16
Dec-16
Jan-18
Date Sampled

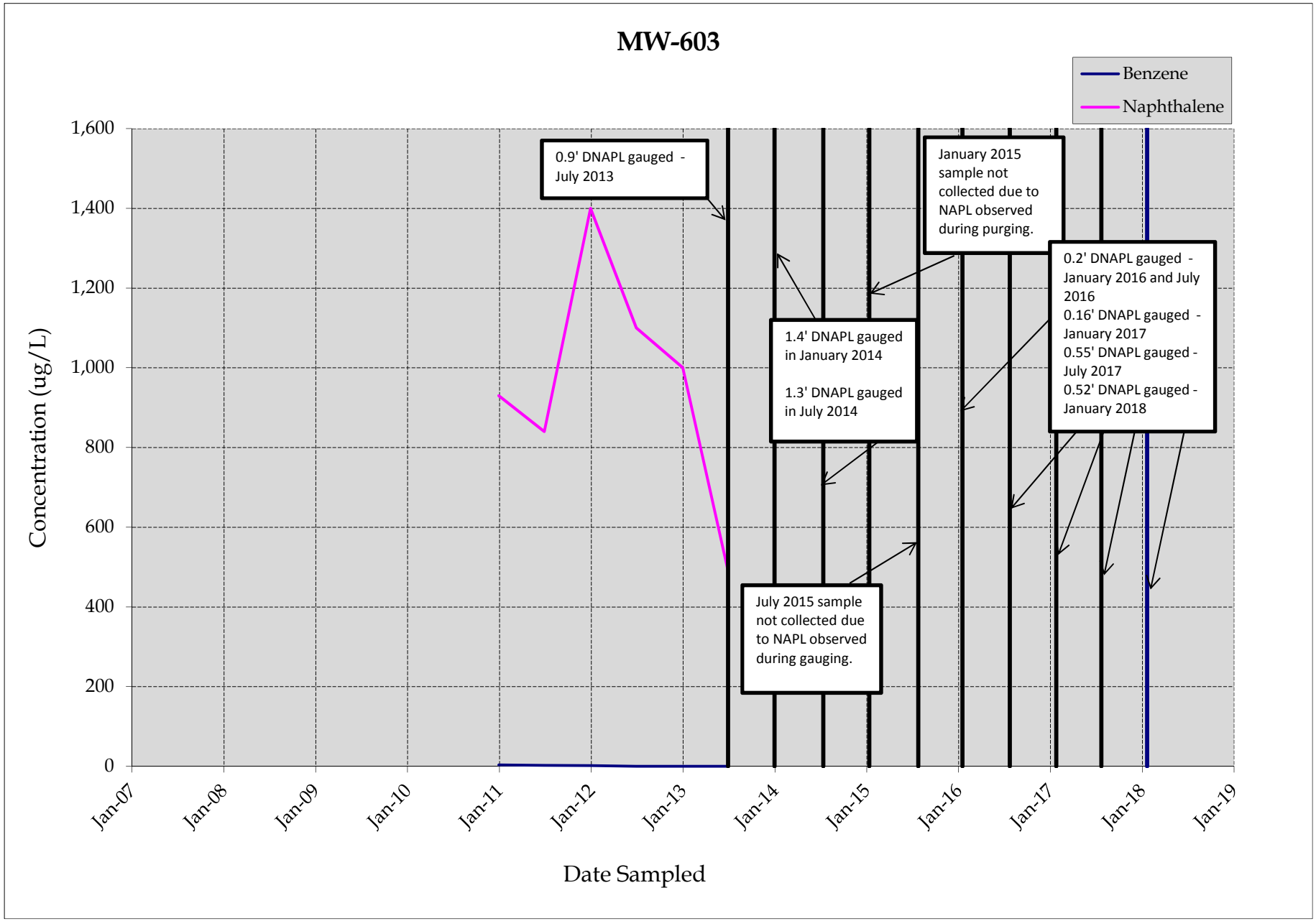

MW-512BR
Benzene
Naphthalene
Bedrock Groundwater Extraction System Start Up
MW-308BR Shut Off
MW-307BR Shut Off
Concentration (ug/L)
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
Jan-06
Jan-07
Jan-08
Dec-08
Jan-10
Jan-11
Jan-12
Dec-12
Jan-14
Jan-15
Jan-16
Dec-16
Jan-18
Date Sampled



Prepared by/date: RJB 2/22/18
Checked by/date: RMB 2/23/18
Appendix F

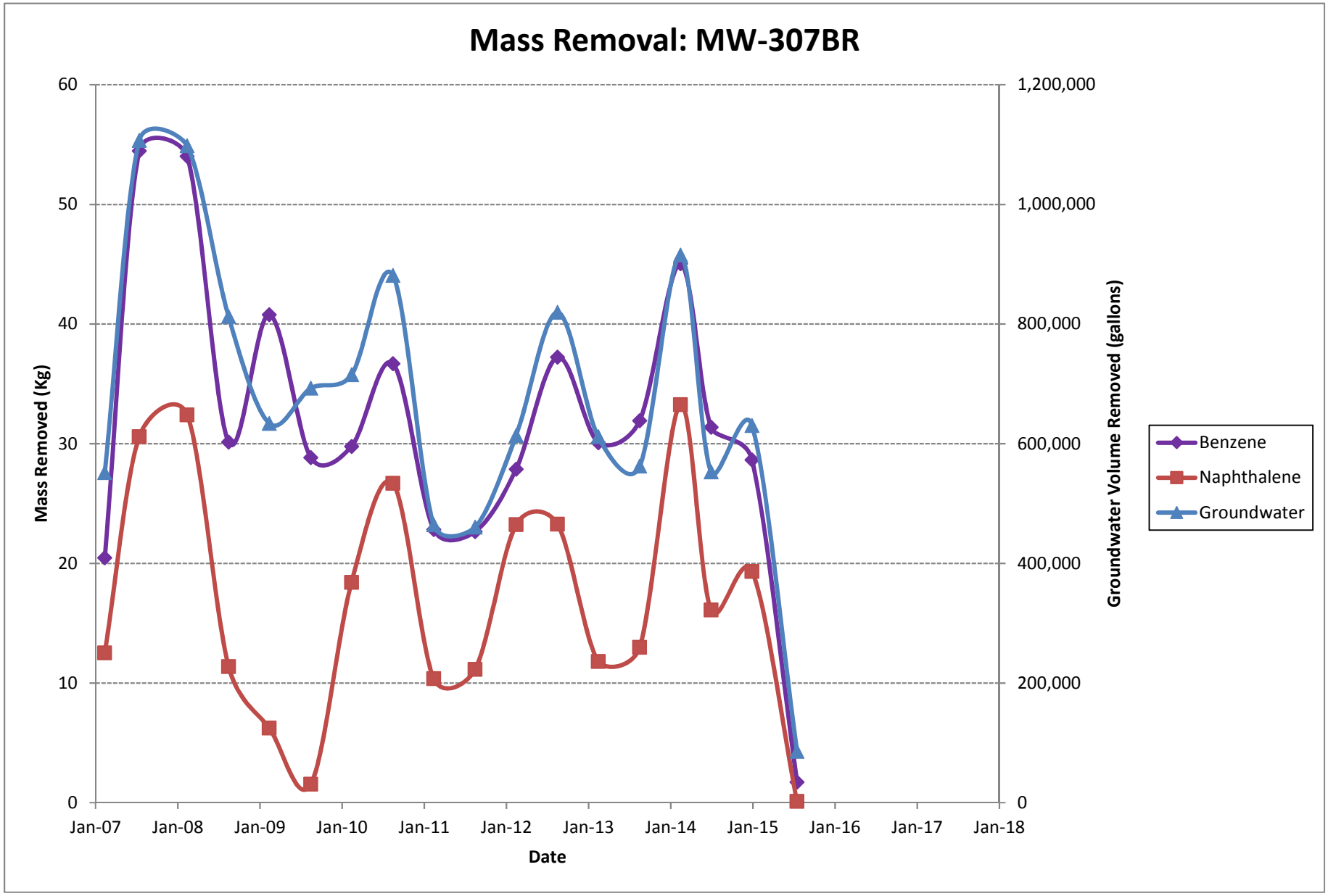

MW-601
Benzene
Naphthalene
Bedrock Groundwater Extraction System Start Up
MW-308BR Shut Off
MW-307BR Shut Off
Concentration (ug/L)
35,000
30,000
25,000
20,000
15,000
10,000
5,000
0
Jan-06
Jan-07
Jan-08
Dec-08
Jan-10
Jan-11
Jan-12
Dec-12
Jan-14
Jan-15
Jan-16
Dec-16
Jan-18
Date Sampled


MW-602
1,400
1,200
1,000
800
600
400
200
0
Concentration (ug/L)
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Date Sampled
Benzene
Naphthalene

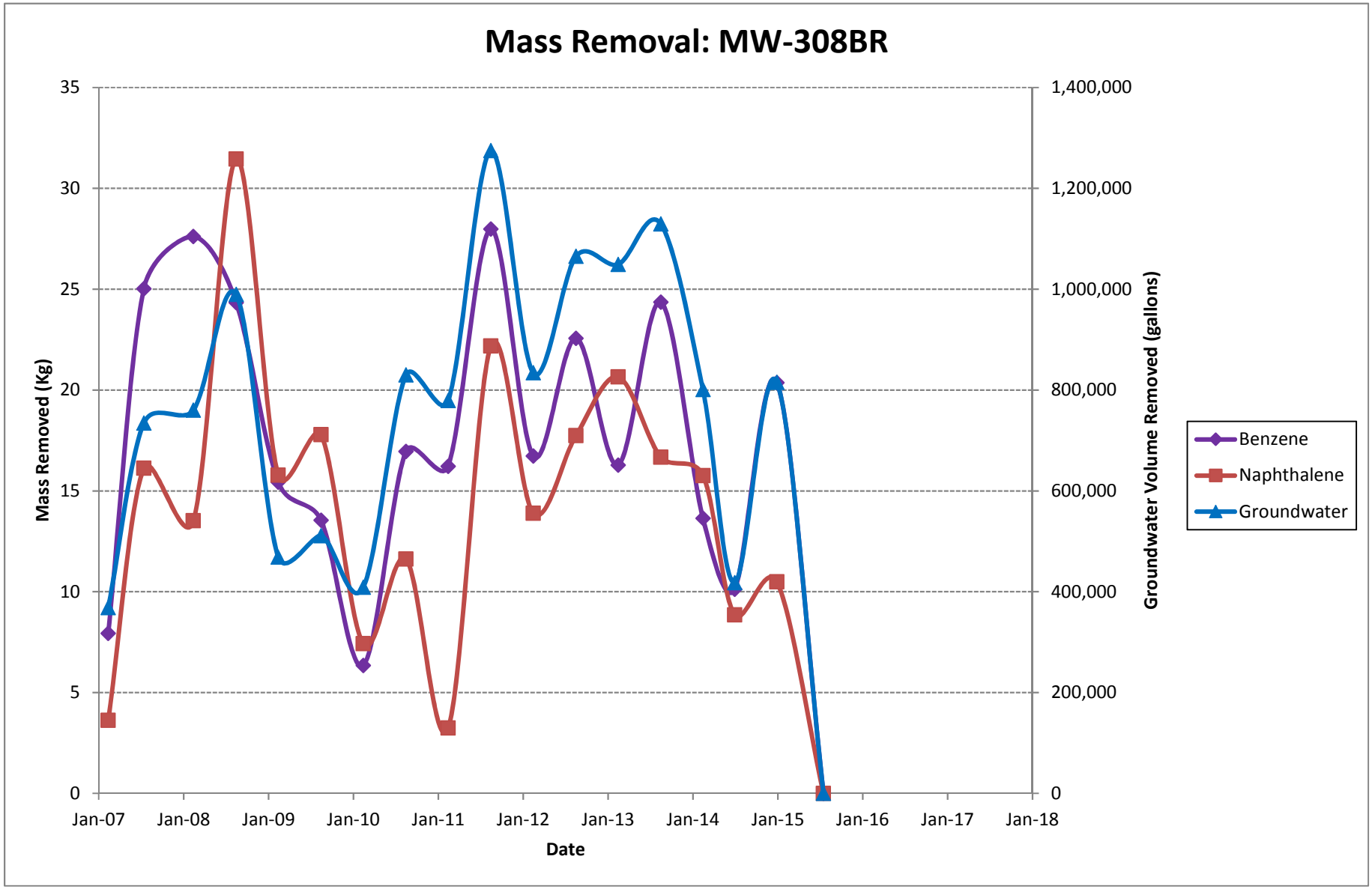

MW-603
Benzene
Naphthalene
Concentration (ug/L)
1,600
1,400
1,200
1,000
800
600
400
200
0
Jan-07
Jan-08
Jan-09
Jan-10
Jan-11
Jan-12
Jan-13
Jan-14
Jan-15
Jan-16
Jan-17
Jan-18
Jan-19
Date Sampled
0.9' DNAPL gauged - July 2013
1.4' DNAPL gauged in January 2014
1.3' DNAPL gauged in July 2014
July 2015 sample not collected due to NAPL observed during gauging.
January 2015 sample not collected due to NAPL observed during purging.
0.2' DNAPL gauged - January 2016 and July 2016
0.16' DNAPL gauged - January 2017
0.55' DNAPL gauged - July 2017
0.52' DNAPL gauged - January 2018

APPENDIX G

MASS REMOVAL TREND GRAPHS



Prepared by/date: JMQ 10/29/15
Checked by/date: SAG 11/24/15



Prepared by/date: JMQ 10/29/15
Checked by and date: SAG 11/24/15

APPENDIX H

CONTINUING ACTION MONITORING PLAN INSPECTION



Photograph: *1*	***North Parcel facing north-northwest***

Atlanta Gas Light Company *January 2018 CAMP Report*	amec foster wheeler	*Former MGP Site* *Augusta, Georgia*



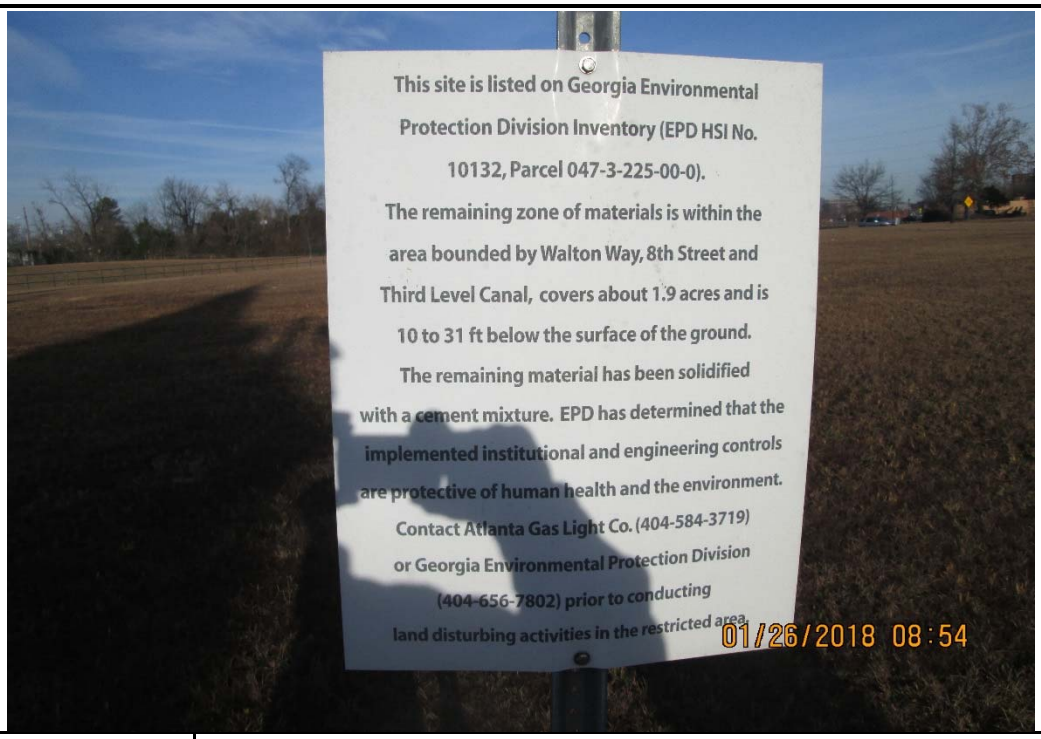
Photograph: *2*	***North Parcel + Reach E South of canal facing north-northwest***

Atlanta Gas Light Company *January 2018 CAMP Report*	amec foster wheeler	*Former MGP Site* *Augusta, Georgia*



Photograph: *3*	***8th Street between Taylor St. and Walton Way facing north***

Atlanta Gas Light Company *January 2018 CAMP Report*	amec foster wheeler	*Former MGP Site* *Augusta, Georgia*



Photograph: *4*	***Example of permanent signage on Northern Parcel and Carwash Property***

Atlanta Gas Light Company *January 2018 CAMP Report*	amec foster wheeler	*Former MGP Site* *Augusta, Georgia*



Photograph: *5*	***ROW north of Taylor St. south of Block E facing east***

Atlanta Gas Light Company *January 2018 CAMP Report*	amec foster wheeler	*Former MGP Site* *Augusta, Georgia*



Photograph: *6*	***ROW south of Taylor St. north of South Parcel facing east***

Atlanta Gas Light Company *January 2018 CAMP Report*	amec foster wheeler	*Former MGP Site* *Augusta, Georgia*



Photograph: *7*	***Parcel 362 facing east***

Atlanta Gas Light Company *January 2018 CAMP Report*	amec foster wheeler	*Former MGP Site* *Augusta, Georgia*



Photograph: *8*	***Parcel 340 and 341 facing west***

Atlanta Gas Light Company *January 2018 CAMP Report*	amec foster wheeler	*Former MGP Site* *Augusta, Georgia*



Photograph: *9*	***King Street south of Taylor Street facing south***



Photograph: *10*	***Walton Way west of intersection with 8th Street facing west***



Photograph: *11*	***Carwash Property facing west***

Atlanta Gas Light Company *January 2018 CAMP Report*	amec foster wheeler	*Former MGP Site* *Augusta, Georgia*



Photograph: *12*	***Parcel 764 facing northwest***

Atlanta Gas Light Company *January 2018 CAMP Report*	amec foster wheeler	*Former MGP Site* *Augusta, Georgia*



Photograph: *13*	***Permanent sign for underground electrical vault in intersection of 9th & Fenwick Street***

Atlanta Gas Light Company *January 2018 CAMP Report*	amec foster wheeler	*Former MGP Site* *Augusta, Georgia*



Photograph: *14*	***Underground electrical vault in intersection of 9th & Fenwick Street***

Atlanta Gas Light Company *January 2018 CAMP Report*	amec foster wheeler	*Former MGP Site* *Augusta, Georgia*



Photograph: *15*	***Fenwick Street facing east toward intersection with 8th Street***

Atlanta Gas Light Company *January 2018 CAMP Report*	amec foster wheeler	*Former MGP Site* *Augusta, Georgia*



Photograph: *16*	***8th Street facing south away from intersection with Fenwick Street***

Atlanta Gas Light Company *January 2018 CAMP Report*	amec foster wheeler	*Former MGP Site* *Augusta, Georgia*



Photograph: *17*	***Intersection of 8th and Fenwick Street***

Atlanta Gas Light Company *January 2018 CAMP Report*	amec foster wheeler	*Former MGP Site* *Augusta, Georgia*



Photograph: *18*	***CSX Area facing southeast***

Atlanta Gas Light Company *January 2018 CAMP Report*	amec foster wheeler	*Former MGP Site* *Augusta, Georgia*



Photograph: *19*	***Parcel 98 (Teresa's Warehouse) facing south***

Atlanta Gas Light Company *January 2018 CAMP Report*	amec foster wheeler	*Former MGP Site* *Augusta, Georgia*



Photograph: *20*	***Parcel 53.1 (Joe Thompson Parking) facing east***

Atlanta Gas Light Company *January 2018 CAMP Report*	amec foster wheeler	*Former MGP Site* *Augusta, Georgia*

TABLE 1

AGLC Augusta MGP Project
Semi-Annual Monitoring Form
Type 5 Parcels (Northern Parcel)
Institutional and Engineering Controls

MONITORING ITEM	CONDITION[1]			COMMENTS
	NA	MN	IA	
TYPE 5 INSTITUTIONAL CONTROLS				
Groundwater Restriction	X			
Excavation w/in ISS Limits	X			
Land Disturbing Activities	X			
New Utility Installations	X			
Residential Use Requirements/Barrier	X			
Permanent Markers	X			
Other				
TYPE 5 ENGINEERING CONTROLS				
Soil Cover (Condition, Disturbed, Maintained)	X			
Vegetative Cover (Condition)	X			
Functionally Equivalent Controls In-Place	X			
Other				

Monitoring Performed By: Daniel Howard Date: 1-26-18

Notes:
1 - NA - no action needed, MN- maintenance needed, IA - immediate action needed

TABLE 2

AGLC Augusta MGP Project
Semi-Annual Monitoring Form
Type 5 Property (Car Wash Area)
Institutional and Engineering Controls

MONITORING ITEM	CONDITION[1]			COMMENTS
	NA	MN	IA	
TYPE 5 INSTITUTIONAL CONTROLS				
Groundwater Restriction	X			
Excavation w/in ISS Limits	X			
Land Disturbing Activities	X			
New Utility Installations	X			
Residential Use Requirements/Barrier	X			
Permanent Markers	X			
Other				
TYPE 5 ENGINEERING CONTROLS				
Soil Cover (Condition, Disturbed, Maintained)	X			
Vegetative Cover (Condition)	X			
Functionally Equivalent Controls In-Place	X			
Other				
Monitoring Performed By: Daniel Howard				Date: 1-26-18

Notes:
1 - NA - no action needed, MN- maintenance needed, IA - immediate action needed

TABLE 3

AGLC Augusta MGP Project
Semi-Annual Monitoring Form Type 5
Property (Georgia Power Vault)
Institutional and Engineering Controls

MONITORING ITEM	CONDITION[1]			COMMENTS
	NA	MN	IA	
TYPE 5 INSTITUTIONAL CONTROLS				
Groundwater Restriction	X			
Excavation w/in ISS Limits	X			
Land Disturbing Activities	X			
New Utility Installations	X			
Residential Use Requirements/Barrier	X			
Permanent Markers	X			
Other				
TYPE 5 ENGINEERING CONTROLS				
Soil Cover (Condition, Disturbed, Maintained)	X			
Vegetative Cover (Condition)	X			
Functionally Equivalent Controls In-Place	X			
Other				
Monitoring Performed By: Daniel Howard				Date: 1-26-18

Notes:
1 - NA - no action needed, MN- maintenance needed, IA - immediate action needed

TABLE 4

AGLC Augusta MGP Project

Semi-Annual Monitoring Form

Type 4 Properties (City of Augusta Street Locations: Fenwick & 8th Streets)

Institutional and Engineering Controls

Street Right-of-Way Locations

MONITORING ITEM	CONDITION[1]			COMMENTS
	NA	MN	IA	
TYPE 4 INSTITUTIONAL CONTROLS				
Groundwater Restriction	X			
Non-Residential Restrictions	X			
Erosion	X			
Other				
Monitoring Performed By: Daniel Howard				Date: 1-26-18

Notes:
1 - NA - no action needed, MN- maintenance needed, IA - immediate action needed

TABLE 4-2

AGLC Augusta MGP Project

Semi-Annual Monitoring Form

Type 4 Properties (City of Augusta Street Location: Walton Way)

Institutional and Engineering Controls

Street Right-of-Way Location

MONITORING ITEM	CONDITION[1]			COMMENTS
	NA	MN	IA	
TYPE 4 INSTITUTIONAL CONTROLS				
Groundwater Restriction	X			
Non-Residential Restrictions	X			
Erosion	X			
Other				
Monitoring Performed By: Daniel Howard				Date: 1-26-18

Notes:
1 - NA - no action needed, MN- maintenance needed, IA - immediate action needed

TABLE 4-3

AGLC Augusta MGP Project
Semi-Annual Monitoring Form
Type 4 Properties (City of Augusta Street Location: 8th Street)
Institutional and Engineering Controls
Street Right-of-Way Location

MONITORING ITEM	CONDITION[1]			COMMENTS
	NA	MN	IA	
TYPE 4 INSTITUTIONAL CONTROLS				
Groundwater Restriction	X			
Non-Residential Restrictions	X			
Erosion	X			
Other				
Monitoring Performed By: Daniel Howard				Date: 1-26-18

Notes:
1 - NA - no action needed, MN- maintenance needed, IA - immediate action needed

TABLE 4-4

AGLC Augusta MGP Project
Semi-Annual Monitoring Form
Type 4 Properties (Taylor Street)
Institutional and Engineering Controls
Street Right-of-Way Locations (north and south of Tayor Street)

MONITORING ITEM	CONDITION[1]			COMMENTS
	NA	MN	IA	
TYPE 4 INSTITUTIONAL CONTROLS				
Groundwater Restriction	X			
Non-Residential Restrictions	X			
Erosion	X			
Other				
Monitoring Performed By: Daniel Howard				Date: 1-26-18

Notes:
1 - NA - no action needed, MN- maintenance needed, IA - immediate action needed

TABLE 4-5

AGLC Augusta MGP Project
Semi-Annual Monitoring Form
Type 4 Properties (City of Augusta Street Location: King Street)
Institutional and Engineering Controls
Street Right-of-Way Locations

MONITORING ITEM	CONDITION[1]			COMMENTS
	NA	MN	IA	
TYPE 4 INSTITUTIONAL CONTROLS				
Groundwater Restriction	X			
Non-Residential Restrictions	X			
Erosion	X			
Other				
Monitoring Performed By: Daniel Howard				Date: 1-26-18

Notes:
1 - NA - no action needed, MN- maintenance needed, IA - immediate action needed

TABLE 5-1

AGLC Augusta MGP Project
Semi-Annual Monitoring Form
Type 4 Properties (Parcel 53.1)
Institutional and Engineering Controls
Street Right-of-Way Locations

MONITORING ITEM	CONDITION[1]			COMMENTS
	NA	MN	IA	
TYPE 4 INSTITUTIONAL CONTROLS				
Groundwater Restriction	X			
Non-Residential Restrictions	X			
Erosion	X			Reseeded
Other				
Monitoring Performed By: Daniel Howard				Date: 1-26-18

Notes:
1 - NA - no action needed, MN- maintenance needed, IA - immediate action needed

TABLE 5-2

AGLC Augusta MGP Project
Semi-Annual Monitoring Form
Type 4 Properties (Parcel 98)
Institutional and Engineering Controls
Street Right-of-Way Locations

MONITORING ITEM	CONDITION[1]			COMMENTS
	NA	MN	IA	
TYPE 4 INSTITUTIONAL CONTROLS				
Groundwater Restriction	X			
Non-Residential Restrictions	X			
Erosion	X			
Other				
Monitoring Performed By: Daniel Howard				Date: 1-26-18

Notes:
1 - NA - no action needed, MN- maintenance needed, IA - immediate action needed

TABLE 5-3

AGLC Augusta MGP Project
Semi-Annual Monitoring Form
Type 4 Properties (Parcel 764)
Institutional and Engineering Controls
Street Right-of-Way Locations

MONITORING ITEM	CONDITION[1]			COMMENTS
	NA	MN	IA	
TYPE 4 INSTITUTIONAL CONTROLS				
Groundwater Restriction	X			
Non-Residential Restrictions	X			
Erosion	X			
Other				
Monitoring Performed By: Daniel Howard				Date: 1-26-18

Notes:
1 - NA - no action needed, MN- maintenance needed, IA - immediate action needed

TABLE 5-4

AGLC Augusta MGP Project
Semi-Annual Monitoring Form
Type 4 Properties (Parcel 362)
Institutional and Engineering Controls
Street Right-of-Way Locations

MONITORING ITEM	CONDITION[1]			COMMENTS
	NA	MN	IA	
TYPE 4 INSTITUTIONAL CONTROLS				
Groundwater Restriction	X			
Non-Residential Restrictions	X			
Erosion	X			
Other				
Monitoring Performed By: Daniel Howard				Date: 1-26-18

Notes:
1 - NA - no action needed, MN- maintenance needed, IA - immediate action needed

TABLE 5-5

AGLC Augusta MGP Project
Semi-Annual Monitoring Form Type 4
Properties (Parcel 340 and 341)
Institutional and Engineering Controls
Street Right-of-Way Locations

MONITORING ITEM	CONDITION[1]			COMMENTS
	NA	MN	IA	
TYPE 4 INSTITUTIONAL CONTROLS				
Groundwater Restriction	X			
Non-Residential Restrictions	X			
Erosion	X			
Other				
Monitoring Performed By: Daniel Howard				Date: 1-26-18

Notes:
1 - NA - no action needed, MN- maintenance needed, IA - immediate action needed

TABLE 5-6

AGLC Augusta MGP Project
Semi-Annual Monitoring Form
Type 4 Properties (CSX Area)
Institutional and Engineering Controls
Street Right-of-Way Locations

MONITORING ITEM	CONDITION[1]			COMMENTS
	NA	MN	IA	
TYPE 4 INSTITUTIONAL CONTROLS				
Groundwater Restriction	X			
Non-Residential Restrictions	X			
Erosion	X			
Other				
Monitoring Performed By: Daniel Howard			Date: 1-26-18	

Notes:
1 - NA - no action needed, MN- maintenance needed, IA - immediate action needed

APPENDIX I

INVESTIGATION WASTE NON-HAZARDOUS WASTE MANIFEST

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
[redacted] N/A	1	(800) 535-5053	000089386

GENERATOR

5. Generator's Name and Mailing Address
ATLANTA GAS LIGHT CO. - A
615 D'ANTIGNAC STREET
AUGUSTA, GA. 30901
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name
UNIVAR USA INC
U.S. EPA ID Number
GAD980645077

7. Transporter 2 Company Name
SEARS INDUSTRIAL SERVICE
U.S. EPA ID Number
SCR000771725

8. Designated Facility Name and Site Address
VLS PIEDMONT, LLC
305 SOUTH MAIN STREET,
HOULDIN, SC, 296622201
864-963-9253
Facility's Phone:
U.S. EPA ID Number
SCR000762466

9a. HM	9b. U.S. DOT Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non-Hazardous Liquids (NON-DOT Regulated Purge Water)	4	DM	220	G	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
1.: 22268(NON-DOT Regulated Purge Water)
PLACARDS PROVIDED BY THE CARRIER/SHIPPER YES/NO DRIVER SIGNATURE
****ER CALLER MUST IDENTIFY UNIVAR USA AS REGISTRANT (CONTRACT # 91569)****.

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: KIMBERLY KEMP — Signature — Month: 02 — Day: 22 — Year:

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month: 2 — Day: 22 — Year: 17

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

Order#PA 8905210

GENERATOR'S/SHIPPER'S INITIAL COPY

APPENDIX B

REGISTERED PROFESSIONAL SUPPORTING DOCUMENTATION

REGISTERED PROFESSIONAL SUPPORTING DOCUMENTATION

Gregory J. Wrenn, P.E.
Summary of Hours and Services
Atlanta Gas Light Company – Augusta, GA Former MGP Site
HSI Site No. 10132
Wood Project No. 6122-14-0098

Hours for preparation of 7th Semi-Annual VRP Status Report:

5 hours billed between December 1, 2017 and May 31, 2018