December 1, 2015

Mr. Kevin Collins
Geologist, Response and Remediation Program
Georgia Department of Natural Resources
Environmental Protection Division
2 Martin Luther King, Jr. Dr., SE, Suite 1054
Atlanta, Georgia 30334-9000

Subject: **AGLC-Augusta MGP Site**
2nd Semi-Annual VRP Status Report
Amec Foster Wheeler Project No.: 6122140098

Dear Mr. Collins:

Amec Foster Wheeler Environment and Infrastructure, Inc. is pleased to submit the Second Semi-Annual Voluntary Remediation Program (VRP) Status Report on behalf of Atlanta Gas Light Company as required under the VRP for the Former Manufactured Gas Plant (MGP) located in Augusta, GA (HSI #10132) to the Georgia Environmental Protection Division.

Please call me at (770) 421-7022 with any questions concerning this report.

Sincerely,

Amec Foster Wheeler Environment & Infrastructure, Inc.

David Price, P.E.
Project Manager

Leslie Miller, P.E.
Senior Engineer

cc: Mr. Greg Corbett, PE, AGLC
Mr. Derrick Williams, GAEPD

Attachments: Second Semi-Annual VRP Status Report

Correspondence:
Amec Foster Wheeler Environment & Infrastructure, Inc.
1075 Big Shanty Road NW
Suite 100
Kennesaw, Georgia 30144
770-421-3400
amecfw.com

Voluntary Remediation Program
2nd Semi-Annual Status Report

Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Prepared for:	Atlanta Gas Light Company Ten Peachtree Pl NE, 17th Floor, Atlanta, Georgia 30309
Date:	December 1, 2015
Prepared by:	Amec Foster Wheeler Environment & Infrastructure, Inc. 1075 Big Shanty Road NW, Suite 100, Kennesaw, Georgia 30144
Project No.:	6122140098

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LIST OF ACRONYMS AND ABBREVIATIONS

Acronym	Definition
AGLC	Atlanta Gas Light Company
BPLM	By-Product-Like Material
COI	Constituents of Interest
DNAPL	Dense Non-Aqueous Phase Liquid
DPT	Direct Push Technology
EPD	Georgia Environmental Protection Division
ft	Feet
ISS	In-Situ Solidification
MGP	Manufactured Gas Plant
PID	Photoionization Detector
VIRP	Voluntary Investigation and Remediation Plan
VRP	Georgia Voluntary Remediation Program

GROUNDWATER SCIENTIST CERTIFICATION

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 Amec Foster Wheeler Environment & Infrastructure, Inc. are accepted as accurate and have been integrated into this report as such.

Leslie Miller

Leslie Miller, P.E. (Georgia P.E. No. 035713)
Senior Environmental Engineer
Amec Foster Wheeler Environment & Infrastructure, Inc.

12/1/15
Date

Registered P.E.'s Mailing Address:
Amec Foster Wheeler Environment & Infrastructure, Inc.
1075 Big Shanty Road NW, Suite 100
Kennesaw, Georgia 30144

Registered P.E.'s Stamp:

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 formerly 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 and surrounding areas since the mid-1980s. After further evaluation and coordination, AGLC and EPD agreed that the Augusta MGP Site was a candidate for enrollment in the Georgia Voluntary Remediation Program (VRP).

EPD agreed to move the Augusta MGP Site into the VRP upon execution of a new Consent Order and submittal of an acceptable Voluntary Investigation and Remediation Plan (VIRP) by August 28, 2014. The Consent Order was signed by AGLC and then executed by EPD on September 23, 2014. AGLC submitted an initial VIRP Application Form and Checklist with associated VRP application fee on August 6, 2014. The VIRP was subsequently submitted on August 28, 2014. EPD approved the VIRP and accepted AGLC into the VRP and provided comments on the VIRP in two separate letters dated December 3, 2014.

The December 3, 2014 EPD acceptance letter established the schedule for submittal of progress reports to EPD on December 1st and June 1st of each year. The goals of this Status Report are to comply with the December 1, 2015 progress report submittal schedule, update EPD on the progress of activities at the Site since submittal of the 1st Semi-Annual Status Report, and respond to comments provided by EPD in the December 3, 2014 comment letter.

2.0 SITE ACTIVITIES

Site activities completed during this reporting period are summarized in the following sections. Progress during this reporting period have been primarily focused on preparation of the 60% design for planned remedial activities. Additional activities have been completed during this reporting period to support progression of the Site through the VRP and to address EPD's comments from the December 3, 2014 letter, including upating the water usage survey, evaluating the effectiveness of the bedrock groundwater recovery system, and initiating the additional investigation outlined in the 1st Semi-Annual VRP Status Report. In addition, semi-annual 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 REMEDIAL DESIGN

Preparation of the 60% remedial design is currently substanitially complete to support implementation of the site-wide in-situ solidification (ISS) remedy for the saturated zone source impacts. As reported in the previous semi-annual report submittal, AGLC considered alternative remediation technologies for Block E (Subarea 2) with the former church building remaining in place due to inquiries by stakeholders regarding the structure. Following an evaluation of the various remediation alternatives for Block E, AGLC determined that ISS is the remediation alternative that most closely aligns with the applicable regulatory requirements and AGLC's objectives to address source impacts in Block E. It is anticipated that the 60% remedial design will be finalized and sent out for bid to pre-qualified remediation contractors in the first quarter of 2016 to support initiation of implementation of the ISS remedy in second quarter 2016.

2.2 GROUNDWATER EXPOSURE PATHWAY

2.2.1 Water Usage Survey

As discussed in the VIRP, groundwater impacted by constituents of interest (COIs) is not accessible for direct contact because the aquifers beneath the Site are not used for water supply and the Site and adjacent properties are supplied with municipal water. An updated well survey to verify the number of wells and well uses within the Site vicinity has been completed and is included as Appendix B. As reported in the water usage survey, there are currently no wells in use within a one mile radius of the site. This is evidence that the Augusta-Richmond County Code Sec. 3-7-43 prohibiting well digging is being observed in the area surrounding the Site. The water usage survey concludes that properties within a one mile radius of the site are currently supplied with municipal water. The groundwater exposure pathway for the Site is currently incomplete.

2.2.2 Groundwater Monitoring, Well Installation and Well Abandonment Activities

Groundwater at the site was sampled in July 2015. The July 2015 semi-annual sampling report is included as Appendix A to this report. Figure 2-1 presents the current monitoring well network at the Site. Approximate extents of dissolved phase impacts in the Galliard and Bedrock formations for July 2015 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.

As reported in the previous semi-annual report, wells located on the Georgia Power property on Block D required abdandonment to accommodate expansion of the Fenwick Street Substation. Well abandonment activities on Block D were completed August 31 through September 2, 2015. A summary of the well abandonment activities including abandonment logs is provided in Appendix C.

As part of this well abandonment activity on Block D, MW-307BR, one of the two bedrock recovery wells for the Site, was abandoned. As documented in Appendix A, the treatment system has been running consistently since it was turned on (November 30, 2006), with only intermittent periods of shut down due routine repairs and maintenance. During the previous operational period (September 1, 2014 through March 31, 2015), the extraction system was shut down from December 29, 2014 to January 30, 2015 for carbon replacement. During restart of the system on January 30, 2015, the groundwater pump connected to MW-308BR was found to be damaged. Therefore, the system had been operated with the use of MW-307BR only. MW-307BR ceased pumping in June 2015 due to mechanical issues with the groundwater pump. As MW-307BR and the adjacent wells were approved for imminent abandonment due to upcoming scheduled construction activities in Block D, MW-307BR was not restarted. In addition, decommisioning of the recovery system, including abandonment of MW-308BR, as presented in Table 2-1 and Figure 2-4, is necessary to accommodate implementation of remedial activities planned in Block E. After discussions with EPD, it was requested that an evaluation be completed for the bedrock recovery system to determine if there would be substantial benefit to placing MW-308BR back into service in the interim leading up to remediation. The bedrock groundwater recovery system evaluation determined that there is not a substantial benefit for continued groundwater recovery in the interim leading up to remediation, and the recovery well system will remain off. The evaluation of the bedrock recovery system is included in the status report as Appendix D.

Groundwater will continue to be sampled semi-annually consistent with the current program until construction is initiated, which is currently planned for second quarter 2016. Wells located within the remedial footprint will need to be abandoned to accomodate remediation activities. Wells identified for abandonment prior to remediation are identified in Table 2-1 and Figure 2-4. The wells planned for abandonment may be revised based upon the results of the additional investigation currently underway and the forthcoming 100% design.

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 implementation are presented on Table 2-1 and Figure 2-5. 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 footprint. For these reasons, locations of potential new/replacement wells will be identified after completion of construction activities and after an evaluation of post ISS groundwater data from the retained wells has been completed.

Additional monitoring wells to address delineation of Galliard groundwater impacts have been installed consistent with the planned additional investigation presented in the previous report and as shown in Figure 2-1. To better understand trichloroethylene detections observed in MW-

401D on the Western Parcel, Galliard monitoring wells MW-604 through MW-606 were installed upgradient of 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 have not yet been validated for reporting in the status report but will be included in the next semi-annual status report.

An additional bedrock well was planned for installation northwest of MW-318 for horizontal delineation purposes. AGLC planned to install this monitoring well within the city of Augusta's right-of-way on the north side of Telfair Street east of the Telfair Street/9th Street intersection. The presence of utilities prohibited installation of the monitoring well at this location so an alternate location north of Telfair Street west of the Telfair Street/9th Street intersection was selected. An Encrochment Permit for the installation of the well within the street right-of-way was obtained from the City of Augusta, and utility location services were used to clear utilities in the area. Again, the presence of numerous utilities prohibited installation of the well at the alternate location. An alternative location needs to be identified which will require an amendment to the Encroachment Permit. Utility locating services have been retained to assist in finding an alternate location for the bedrock monitoring well. Once a suitable location for the well is identified, the Encroachment Permit will be amended and the well will be installed and sampled. An update on the horizontal bedrock delineation will be provided in the next status report.

MW-603 and MW-502D were installed to monitor impacts downgradient of the Georgia Power electrical vault in Block A. There is currently an accumulation of dense non-aqueous phase liquid (DNAPL) within the screened interval of each well immediately above the saprolite. To address EPD's request for corrective measures for DNAPL observed in MW-603 and MW-502D, a peristaltic pump was utilized to attempt to remove the product from MW-603 and collect a sample. Due to the heavy, viscous nature of the DNAPL, removal of the material using a peristaltic pump was not possible. However, a sample of the DNAPL in MW-603 was collected and is currently undergoing analysis at the laboratory for Site COIs. Since MW-502D has not had continuous DNAPL reported since it was first observed during the July 2013 sampling, an interface probe was used to evaluate conditions in MW-502D and then determine appropriate next steps. Approximately 0.9 feet (ft) of product was observed in this well on October 16, 2015. Due to the amount of product observed in this well, it is appropriate to attempt to remove the product from both MW-603 and MW-502D. A vacuum truck is now planned to be deployed to attempt to remove product in both MW-603 and MW-502D. If the product can be successfully removed, the wells will be monitored to observe how quickly, if at all, product re-enters the wells, and then appropriate next steps will be identified.

In recent sampling events, MW-205 (January and July 2015) and MW-600 (July 2015) also had observations of DNAPL (as detected by interface probe). An interface probe was deployed on October 16, 2015 and no product was observed in either well. These wells are planned to be monitored again during the January 2016 sampling event, but are both planned for abandonment to accommodate remediation as shown on Figure 2-4.

2.3 DELINEATION OF RESIDUAL BY-PRODUCT-LIKE MATERIAL IMPACTS

Additional investigation is being conducted to better refine the horizontal limits of ISS remediation on the Western Parcel, parcels north of Walton Way on Block A, and Block E. Additionally, investigation of potential residual by-product-like material (BPLM) northwest of the former carwash (Block A) in the vicinity of MW-502D and MW-603 is also being conducted.

The investigative activities for delineation of residual BPLM impacts include direct push technology (DPT) borings for additional characterization and delineation on the Western Parcel, parcels north of Walton Way on Block A, and Block E. These activities, as outlined in the previous status report, were initiated on October 5, 2015 and field work was completed on November 5, 2015. Visual observations of the DPT cores will be used to supplement previous soil boring data to delineate the limits of planned ISS remediation. . Soil borings planned to be conducted near the 8th Street/Walton Way intersection will be collected after the streets have been closed for remediation activities. As discussed in Section 2.2.2, DNAPL has been observed in MW-502D and MW-603 in recent sampling events. Additional investigation has been conducted in the vicinity of MW-502D and MW-603 to better understand potential DNAPL source contributions. Investigative activities included DPT borings for additional visual characterization of BPLM and delineation in this area.

The DPT borings were extended through the Alluvial and Gaillard formations to the top of Saprolite. Soil cores were collected by advancing a five-foot polyethylene lined tube and cores continuously collected from ground surface to the top of Saprolite (approximately 30-ft below ground surface). Upon extraction from the sampler, each soil core was examined for the presence of visual staining and scanned with a photoionization detector (PID). Soil cores were logged by a qualified professional in accordance with the Site Specific MGP soil logging protocol (RETEC 2003).

Once visual observations of the soil cores are logged and reviewed, the information will be tabulated and figures summarizing the investigation will be updated to incorporate the newly acquired data, including the interpreted extent of BPLM from the visual analysis. The BPLM additional delineation will then be used to refine the ISS remediation boundary and will be reported in the subsequent semi-annual report.

3.0 ADDITIONAL QUALIFYING PROPERTIES

The properties previously qualifying for the VRP include parcels 108, 109, 185, 186, 187, 188, 189, 225, 227, 228, 230, 231, 248, 327.2, 327.1, 328, 329, 330, and 374.1 owned by AGL, 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 United States Environmental Protection Agency 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. There are no new properties qualifying for the VRP in this submittal.

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, at which time some wells will require abandonment. 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 construction activities and after an evaluation of post ISS groundwater data from the subset of retained wells has been completed.

- The updated well survey verifies that there are currently no wells in use within a one mile radius of the site supporting that the Augusta-Richmond County Code Sec. 3-7-43 prohibiting well digging is being observed in the area surrounding the Site and these properties are currently supplied with municipal water.

5.0 NEXT SUBMITTAL

As required by EPD, semi-annual progress reports must be submitted to EPD every June 1st and December 1st beginning in 2015 and ending in 2020, unless a compliance status report is submitted and approved prior to 2020. A report for the third semi-annual period will be submitted by June 1, 2016 and is planned to include the following activities:

- Semi-annual groundwater monitoring reporting
- Results from completed additional investigation activities
- Update on planned corrective action

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, 2015. *Voluntary 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.

RECTEC, 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	Abandoned to Facilitate GA Power Expansion	Planned for Abandonment	Monitored During ISS Implementation
Alluvium Wells				
MW-05	MW			X
MW-17	MW			X
MW-306S	DDSP			Gauge Only
MW-401S	MW		X	
MW-402S	MW			X
MW-408S	MW			X
MW-501S	MW			X
Galliard Wells				
MW-12	MW			X
MW-19	MW			X
MW-21	MW			X
MW-22	MW			X
MW-24	MW			X
MW-25	MW			Gauge Only
MW-202DR	MW			X
MW-203	MW			X
MW-205	MW		X	
MW-206	MW			X
MW-207	MW			X
MW-211*	MW		X	
MW-303	MW			X
MW-304	MW			X
MW-306D	DDSP			X
MW-307D	DDSP	X		
MW-309D	DDSP			Gauge Only
MW-310D	DDSP			Gauge Only
MW-401D	MW		X	
MW-402D	MW			X
MW-404DR	MW			X
MW-408DR	MW			X
MW-502D	MW			X
MW-505D	MW			X
MW-600	MW		X	
MW-601	MW		X	
MW-602	MW			X
MW-603	MW			X
MW-604	MW			X
MW-605	MW			Gauge Only
MW-606	MW			Gauge Only
MW-607	MW			X

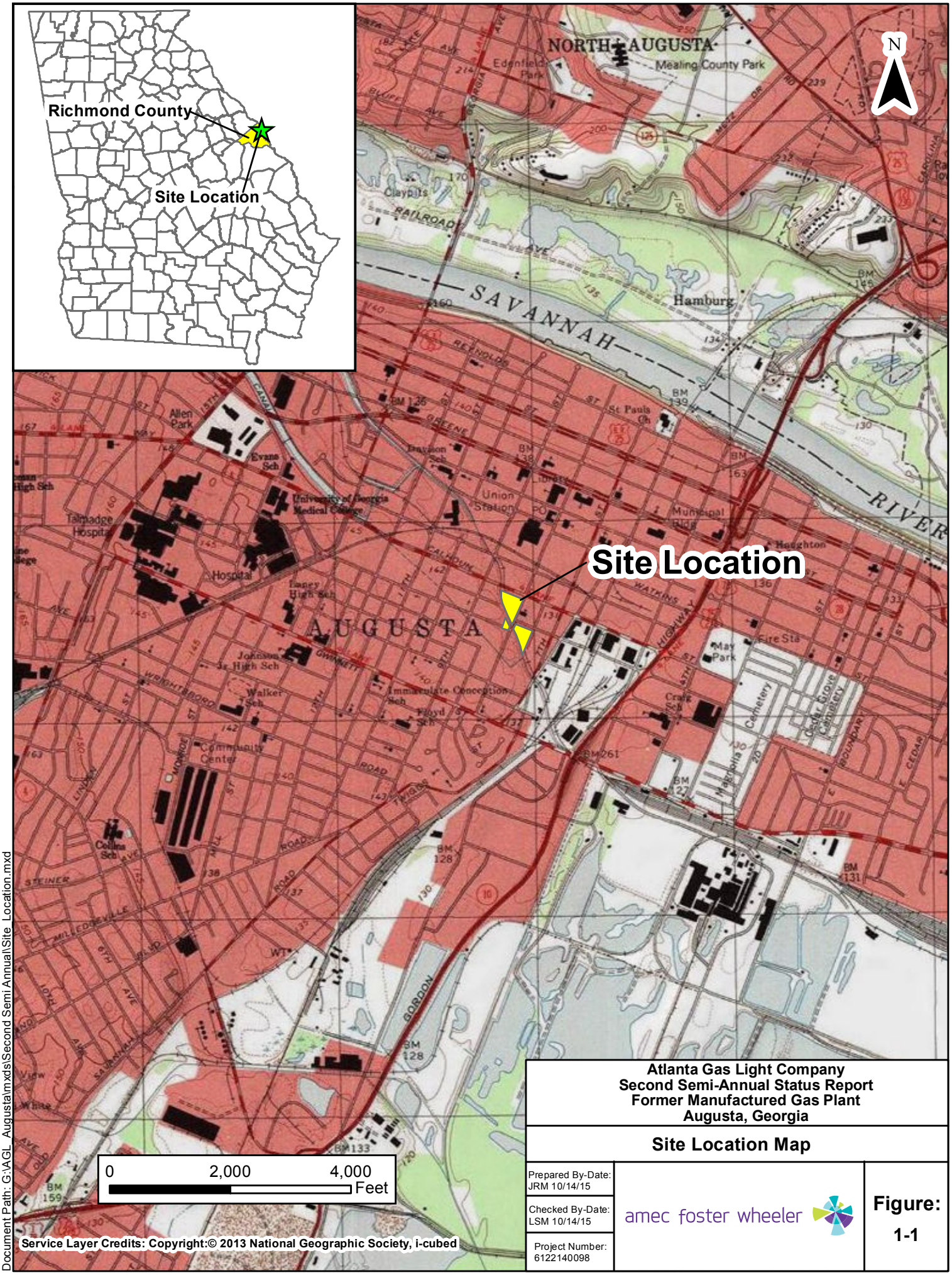
Table 2-1
Monitoring Well Status
Atlanta Gas Light Company
Former Manufactured Gas Plant
Augusta, Georgia

Well	Type	Abandoned to Facilitate GA Power Expansion	Planned for Abandonment	Monitored During ISS Implementation
Saprolite Wells				
MW-214	MW			X
MW-306SAP	DDSP			X
MW-307SAP	DDSP	X		
MW-309SAP	DDSP			Gauge Only
MW-310SAP	DDSP			X
MW-311	MW			X
MW-317	MW			Gauge Only
MW-401SAP	MW		X	
Bedrock and Transition Zone Wells				
MW-213	MW		X	
MW-306BR	MW			X
MW-306TZ	DDSP			X
MW-307BR	RW	X		
MW-307TZ	DDSP	X		
MW-308BR	RW		X	
MW-309BR	MW			X
MW-309TZ	DDSP			X
MW-310BR	MW			X
MW-310TZ	DDSP			Gauge Only
MW-313	MW			X
MW-315	MW			X
MW-316	MW	X		
MW-318	MW			X
MW-319	MW			X
MW-320	MW			X
MW-321	MW	X		
MW-322	MW	X		
MW-323	MW	X		
MW-324	MW	X		
MW-325	MW			X
MW-500BR	MW			X
MW-503BR	MW		X	
MW-504BR	MW		X	
MW-507BR	MW			X
MW-508BR	MW			X
MW-509BR	MW		X	
MW-510BR	MW		X	
MW-511BR	MW		X	
MW-512BR	MW			X
MW-513BR	MW			X

*Approved for abandonment by EPD on May 23, 2012
** Installed in October 2015

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

FIGURES



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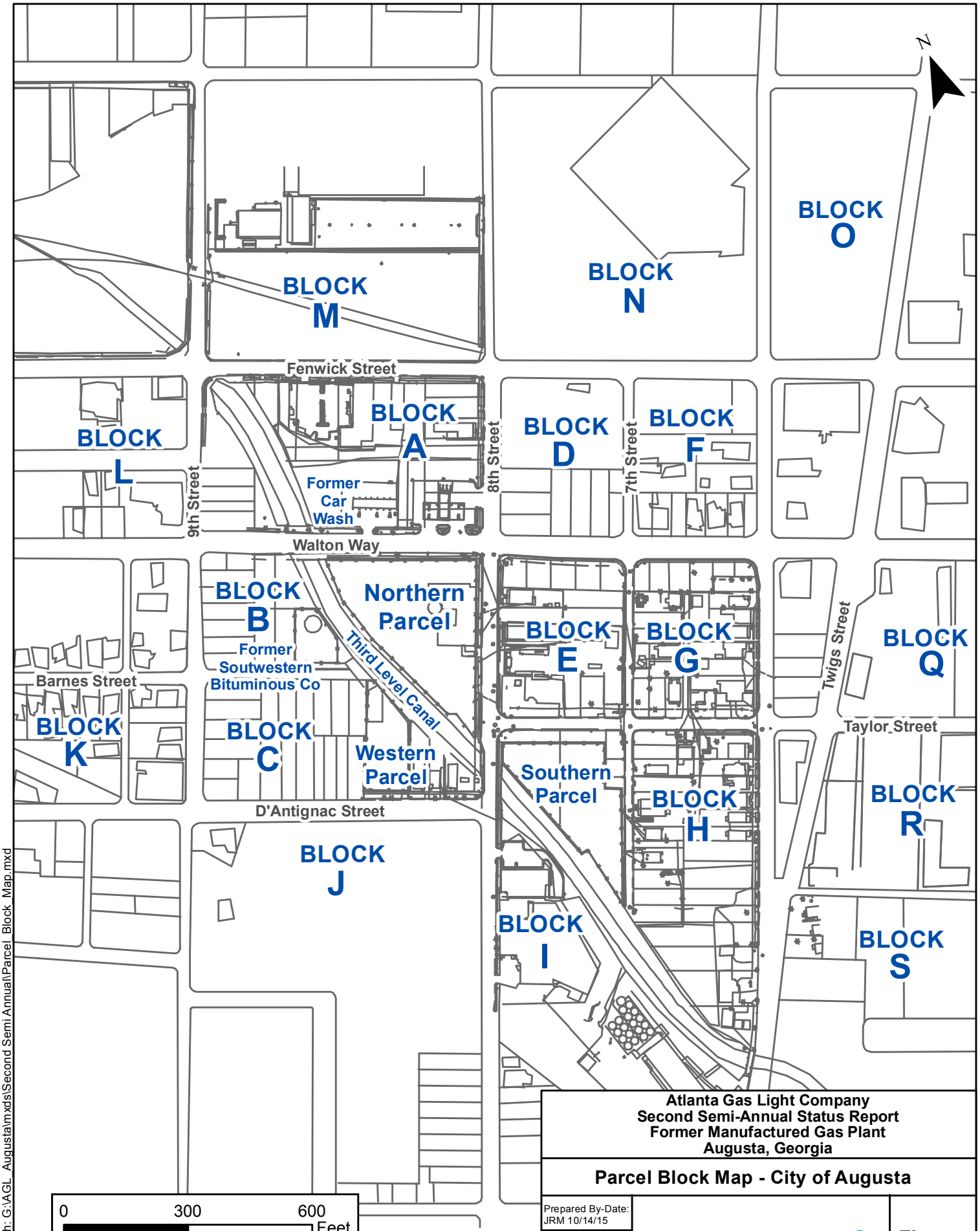
Atlanta Gas Light Company
Second Semi-Annual Status Report
Former Manufactured Gas Plant
Augusta, Georgia

Site Location Map

Prepared By-Date: JRM 10/14/15	amec foster wheeler	**Figure: 1-1**
Checked By-Date: LSM 10/14/15		
Project Number: 6122140098		



Source: Environmental Cost Management 2012, Feasibility Study

Atlanta Gas Light Company
Second Semi-Annual Status Report
Former Manufactured Gas Plant
Augusta, Georgia

Parcel Block Map - City of Augusta

Prepared By-Date: JRM 10/14/15

Checked By-Date: LSM 10/14/15

Project Number: 6122140098

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Figure: 1-2

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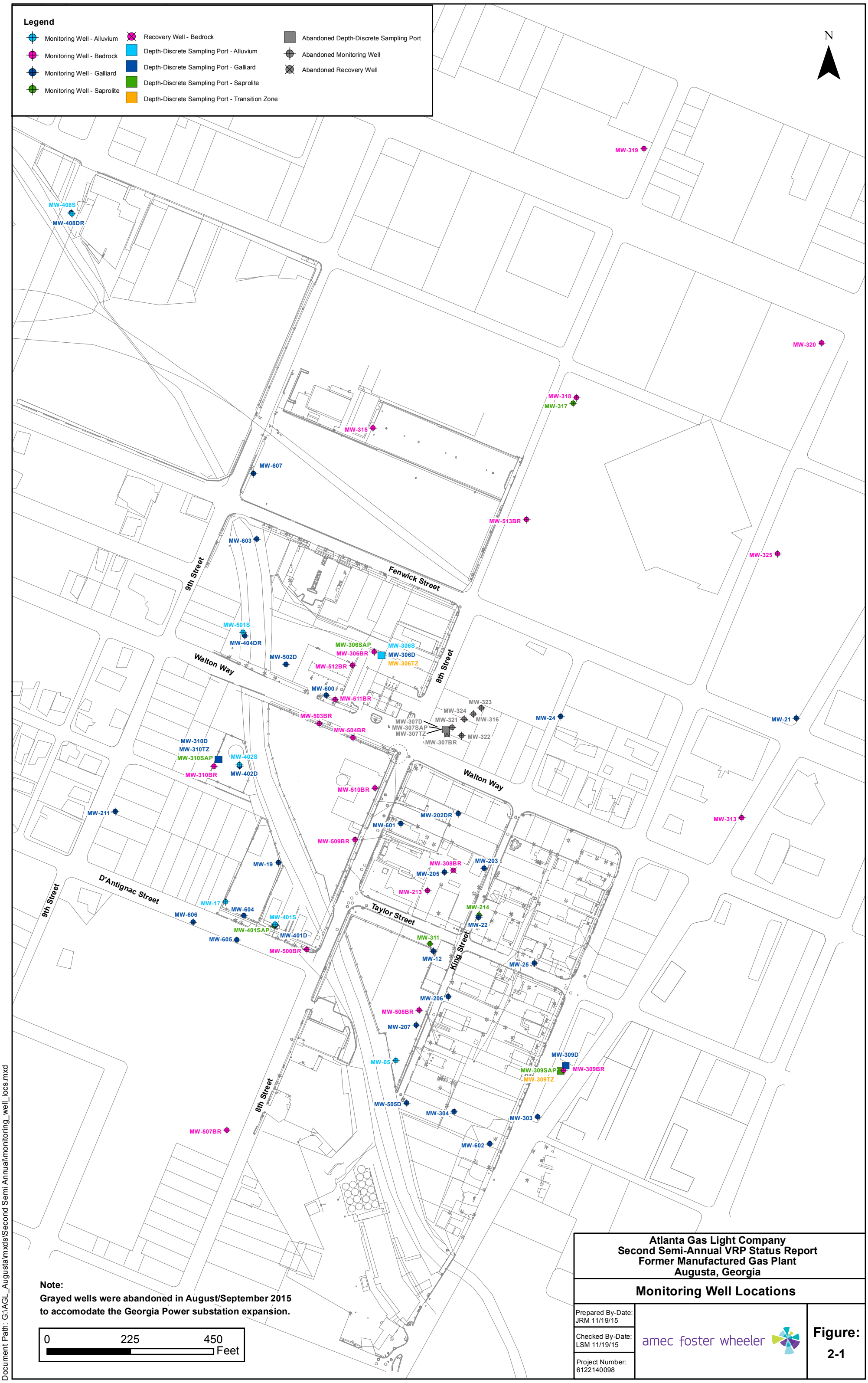

Note:
Grayed wells were abandoned in August/September 2015 to accomodate the Georgia Power substation expansion.

0 225 450 Feet

Atlanta Gas Light Company
Second Semi-Annual VRP Status Report
Former Manufactured Gas Plant
Augusta, Georgia

Monitoring Well Locations

Prepared By-Date: JRM 11/19/15
Checked By-Date: LSM 11/19/15
Project Number: 6122140098

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Figure: 2-1

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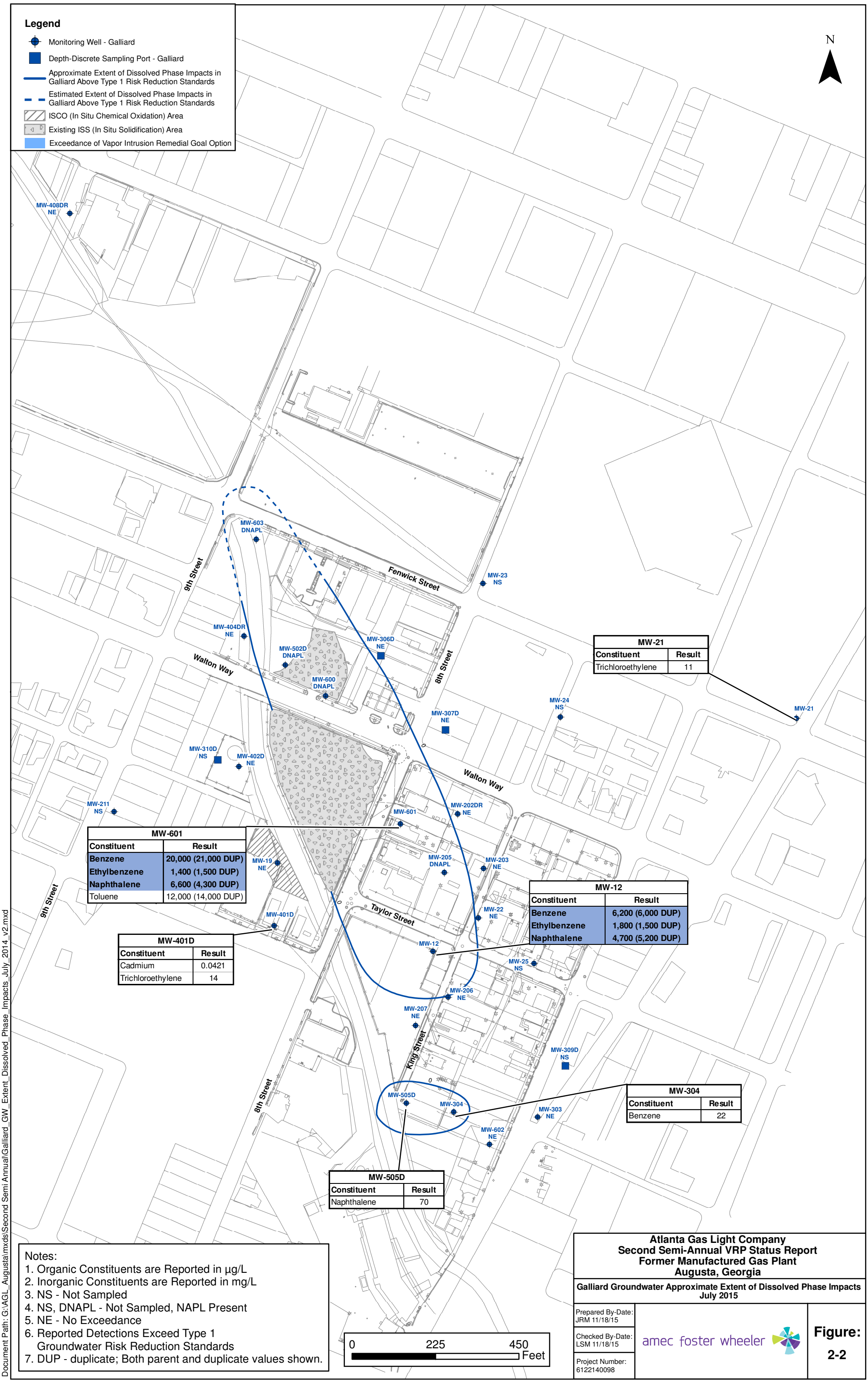


MW-21	
Constituent	Result
Trichloroethylene	11

MW-601	
Constituent	Result
Benzene	20,000 (21,000 DUP)
Ethylbenzene	1,400 (1,500 DUP)
Naphthalene	6,600 (4,300 DUP)
Toluene	12,000 (14,000 DUP)

MW-12	
Constituent	Result
Benzene	6,200 (6,000 DUP)
Ethylbenzene	1,800 (1,500 DUP)
Naphthalene	4,700 (5,200 DUP)

MW-401D	
Constituent	Result
Cadmium	0.0421
Trichloroethylene	14

MW-304	
Constituent	Result
Benzene	22

MW-505D	
Constituent	Result
Naphthalene	70

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, NAPL Present
5. NE - No Exceedance
6. Reported Detections Exceed Type 1 Groundwater Risk Reduction Standards
7. DUP - duplicate; Both parent and duplicate values shown.

Atlanta Gas Light Company
Second Semi-Annual VRP Status Report
Former Manufactured Gas Plant
Augusta, Georgia

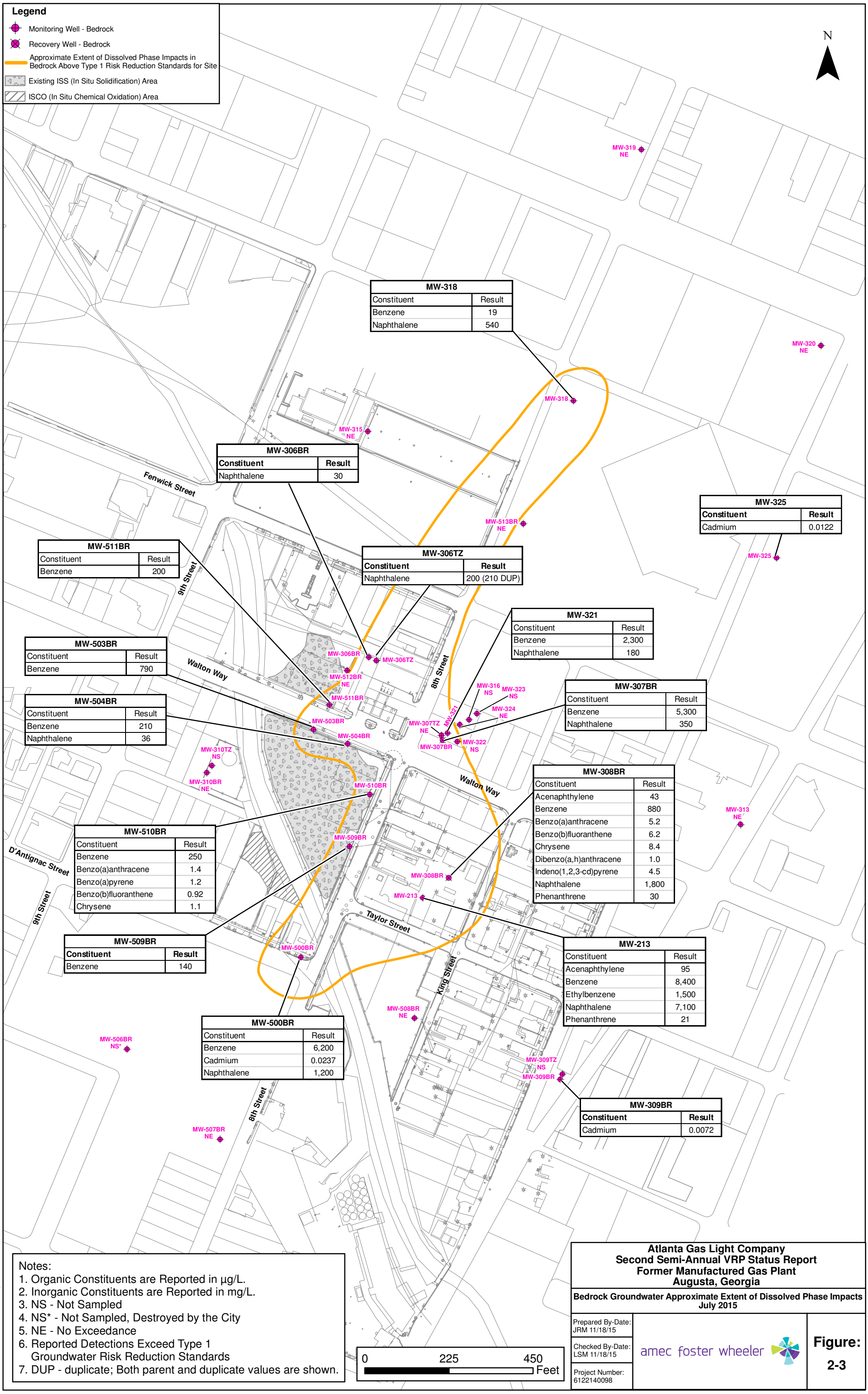
Galliard Groundwater Approximate Extent of Dissolved Phase Impacts
July 2015

Prepared By-Date: JRM 11/18/15
Checked By-Date: LSM 11/18/15
Project Number: 6122140098

amec foster wheeler

Figure: 2-2

Document Path: G:\AGL_Augusta\mxds\Second Semi Annual\Galliard_GW_Extent_Dissolved_Phase_Impacts_July_2014_v2.mxd



MW-318	
Constituent	Result
Benzene	19
Naphthalene	540

MW-306BR	
Constituent	Result
Naphthalene	30

MW-325	
Constituent	Result
Cadmium	0.0122

MW-511BR	
Constituent	Result
Benzene	200

MW-306TZ	
Constituent	Result
Naphthalene	200 (210 DUP)

MW-321	
Constituent	Result
Benzene	2,300
Naphthalene	180

MW-503BR	
Constituent	Result
Benzene	790

MW-307BR	
Constituent	Result
Benzene	5,300
Naphthalene	350

MW-504BR	
Constituent	Result
Benzene	210
Naphthalene	36

MW-308BR	
Constituent	Result
Acenaphthylene	43
Benzene	880
Benzo(a)anthracene	5.2
Benzo(b)fluoranthene	6.2
Chrysene	8.4
Dibenzo(a,h)anthracene	1.0
Indeno(1,2,3-cd)pyrene	4.5
Naphthalene	1,800
Phenanthrene	30

MW-510BR	
Constituent	Result
Benzene	250
Benzo(a)anthracene	1.4
Benzo(a)pyrene	1.2
Benzo(b)fluoranthene	0.92
Chrysene	1.1

MW-509BR	
Constituent	Result
Benzene	140

MW-213	
Constituent	Result
Acenaphthylene	95
Benzene	8,400
Ethylbenzene	1,500
Naphthalene	7,100
Phenanthrene	21

MW-500BR	
Constituent	Result
Benzene	6,200
Cadmium	0.0237
Naphthalene	1,200

MW-309BR	
Constituent	Result
Cadmium	0.0072

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. Reported Detections Exceed Type 1 Groundwater Risk Reduction Standards
7. DUP - duplicate; Both parent and duplicate values are shown.

Atlanta Gas Light Company
Second Semi-Annual VRP Status Report
Former Manufactured Gas Plant
Augusta, Georgia

Bedrock Groundwater Approximate Extent of Dissolved Phase Impacts
July 2015

Prepared By-Date: JRM 11/18/15
Checked By-Date: LSM 11/18/15
Project Number: 6122140098

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Figure: 2-3

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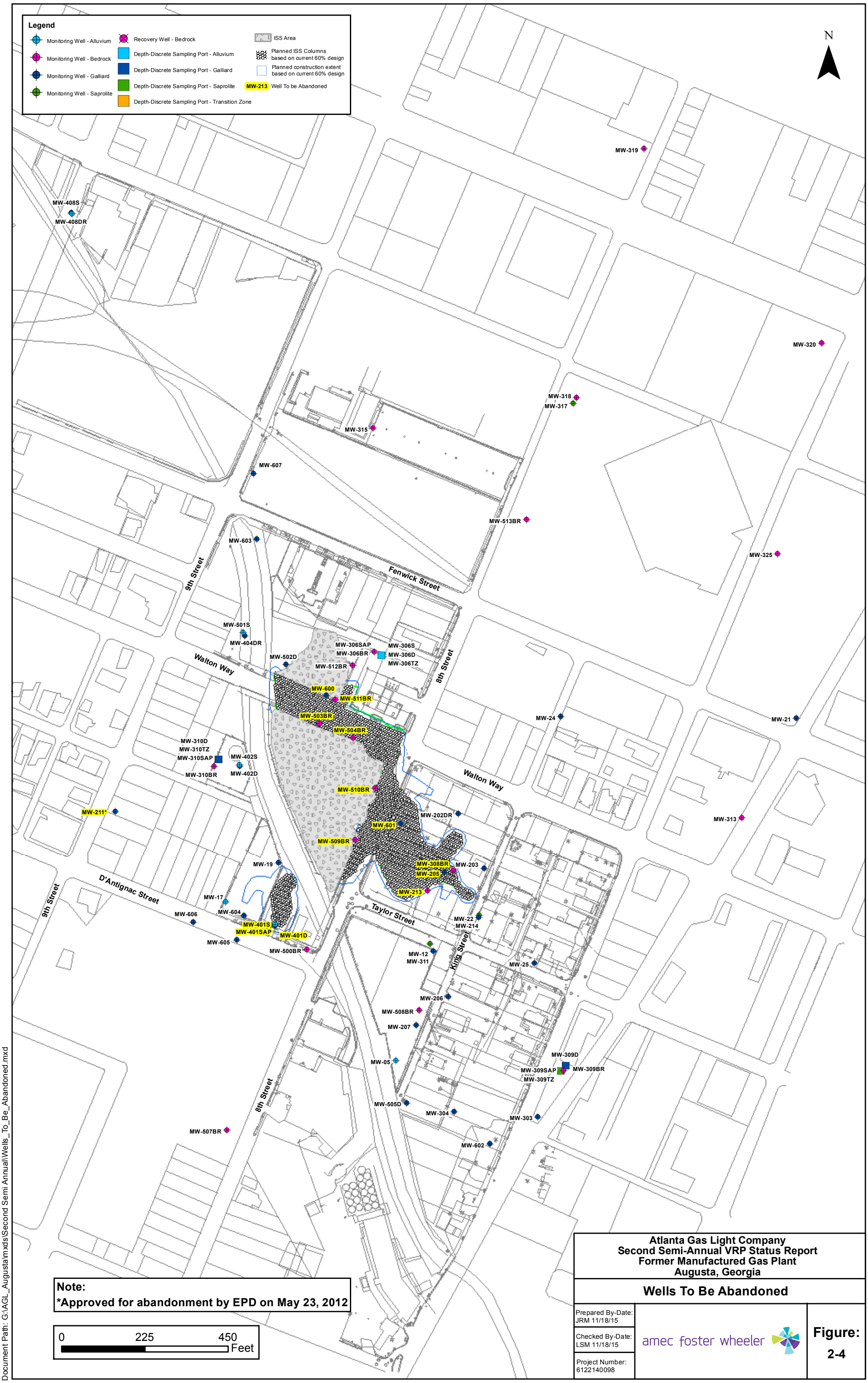
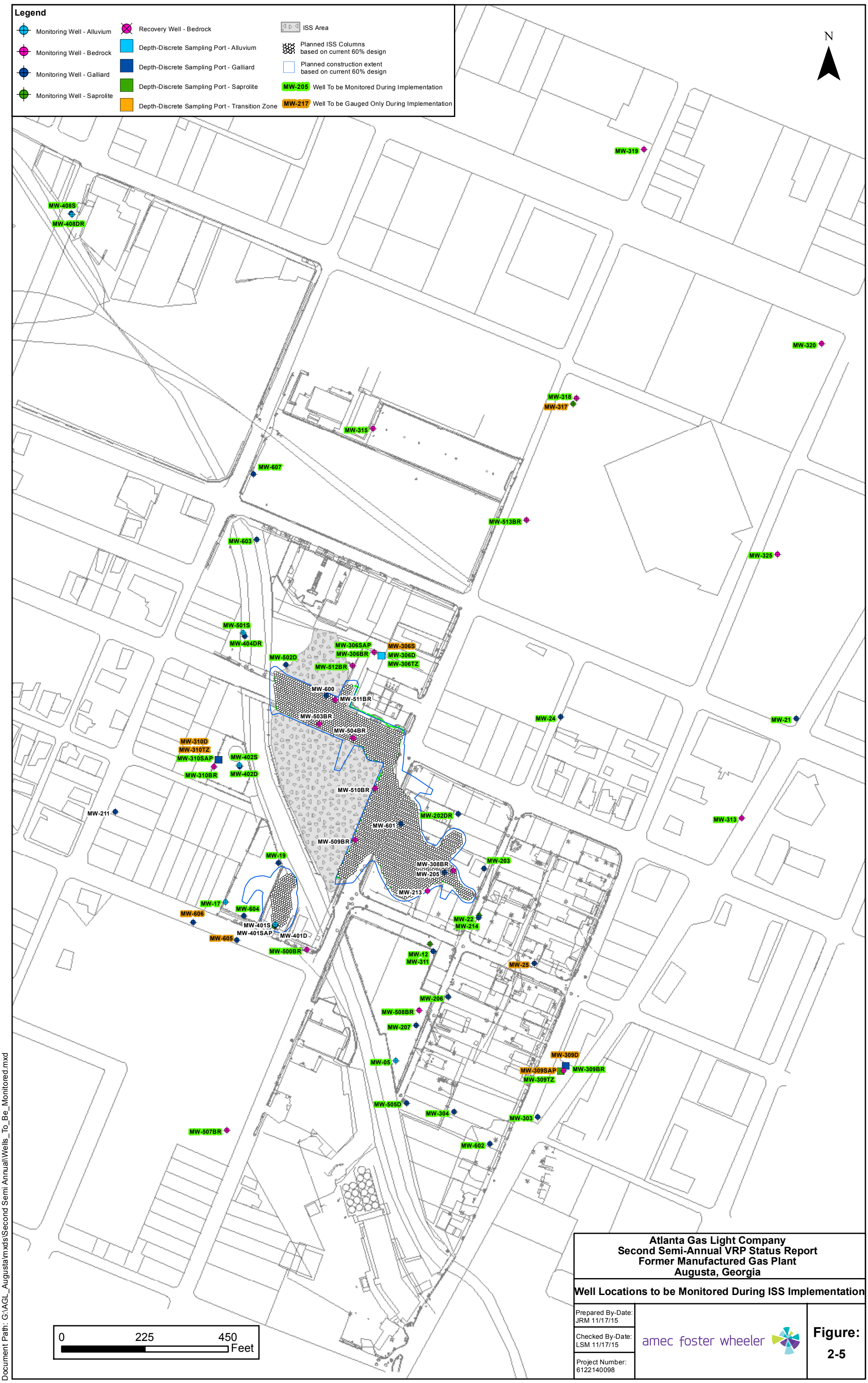

Legend
Monitoring Well - Alluvium
Monitoring Well - Bedrock
Monitoring Well - Galliard
Monitoring Well - Saprolite
Recovery Well - Bedrock
Depth-Discrete Sampling Port - Alluvium
Depth-Discrete Sampling Port - Galliard
Depth-Discrete Sampling Port - Saprolite
Depth-Discrete Sampling Port - Transition Zone
ISS Area
Planned ISS Columns based on current 60% design
Planned construction extent based on current 60% design
MW-213 Well To be Abandoned
N
MW-319
MW-408S
MW-408DR
MW-320
MW-318
MW-317
MW-315
MW-607
MW-513BR
MW-603
MW-325
9th Street
Fenwick Street
MW-501S
MW-404DR
MW-306SAP
MW-306BR
MW-306S
MW-306D
MW-306TZ
MW-502D
MW-512BR
Walton Way
8th Street
MW-600
MW-511BR
MW-503BR
MW-504BR
MW-24
MW-21
MW-310D
MW-310TZ
MW-310SAP
MW-402S
MW-310BR
MW-402D
Walton Way
MW-510BR
MW-211*
MW-202DR
MW-313
MW-601
MW-509BR
MW-19
MW-308BR
MW-205
MW-203
MW-213
D'Antignac Street
9th Street
MW-17
MW-606
MW-604
MW-401S
MW-401SAP
MW-401D
MW-605
MW-500BR
Taylor Street
MW-22
MW-214
MW-12
MW-311
King Street
MW-25
MW-206
MW-508BR
MW-207
MW-05
MW-309D
MW-309SAP
MW-309BR
MW-309TZ
8th Street
MW-505D
MW-304
MW-303
MW-507BR
MW-602
Note:
*Approved for abandonment by EPD on May 23, 2012
0
225
450
Feet
Atlanta Gas Light Company
Second Semi-Annual VRP Status Report
Former Manufactured Gas Plant
Augusta, Georgia
Wells To Be Abandoned
Prepared By-Date: JRM 11/18/15
Checked By-Date: LSM 11/18/15
Project Number: 6122140098
amec foster wheeler
Figure: 2-4
Document Path: G:\AGL_Augusta\mxds\Second Semi Annual\Wells_To_Be_Abandoned.mxd



Atlanta Gas Light Company
Second Semi-Annual VRP Status Report
Former Manufactured Gas Plant
Augusta, Georgia

Well Locations to be Monitored During ISS Implementation

Prepared By-Date: JRM 11/17/15

Checked By-Date: LSM 11/17/15

Project Number: 6122140098

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Figure: 2-5

N
Fenwick Street
9th Street
Walton Way
8th Street
D'Antignac Street
Taylor Street
King Street
LEGEND
VRP QUALIFYING AGL PROPERTIES
OTHER QUALIFYING PROPERTIES
PARCEL PROPERTY LINE
PARCEL NUMBER
EXISTING ISS (IN SITU SOLIFICATION)
EXISTING CONDITIONS MAP BASED ON ORIGINAL SURVEY PREPARED BY DONALDSON, GARRETT AND ASSOCIATES, INC. (DGA) AND JAMES W. NEWBERRY, JR. R.L.S. (DATED AUG. 24, 2001) WITH THE EXCEPTION OF PROPERTY TRANSFERS THAT OCCURRED ALONG THE CANAL AT THE END OF REMEDIATION. DGA PERFORMED THE PROPERTY TRANSFER SURVEY FOR THESE PROPERTIES IN 2003.
0 150 300 Feet
Atlanta Gas Light Company
Second Semi-Annual VRP Status Report
Former Manufactured Gas Plant
Augusta, Georgia
Qualifying Properties
Prepared By-Date: HVP 11/2/15
Checked By-Date: LSM 11/2/15
Project Number: 6122140098
amec foster wheeler
Figure: 3-1
Document Path: G:\AGL_Augusta\mxds\Second Semi Annual\Qualified_Properties.mxd

APPENDIX A

JULY 2015 CAER

(SUBMITTED AS A SEPARATE VOLUME)

APPENDIX B

WATER USAGE SURVEY

APPENDIX C

GEORGIA POWER WELL ABANDONMENT REPORT

APPENDIX D

BEDROCK EXTRACTION SYSTEM REVIEW

APPENDIX E

REGISTERED PROFESSIONAL SUPPORTING DOCUMENTATION

18th Semi-Annual Corrective Action Effectiveness Report

July 2015 Groundwater Monitoring Event
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Richmond County, Georgia
HSI No. 10132

Prepared for:	Atlanta Gas Light Company
Date:	November 27, 2015
Prepared by:	Amec Foster Wheeler Environment & Infrastructure, Inc. 1075 Big Shanty Road NW, Suite 100, Kennesaw, Georgia 30144
Project No.:	6122150235

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ACRONYMS/ABBREVIATIONS

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
CAMP	Continuing Action Monitoring Plan
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
FS	Feasibility Study
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
NAPL	Non-Aqueous Phase Liquid
O&M	Operation and Maintenance
ORP	Oxidation Reduction Potential
POTW	Publicly Owned Treatment Works
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
ThermoRetec	ThermoRetec Consulting Corporation
USEPA	United States Environmental Protection Agency
VIRP	Voluntary Investigation and Remediation Plan
VOC	Volatile Organic Compound
VRP	Voluntary Remediation Program

PROFESSIONAL CERTIFICATION PAGE

18th SEMIANNUAL CORRECTIVE ACTION EFFECTIVENESS REPORT - JULY 2015 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 Amec Foster Wheeler Environment & Infrastructure, 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
Amec Foster Wheeler Environment & Infrastructure, Inc.

11/30/15
Date

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

Registered P.G.'s Stamp:

1.0 INTRODUCTION

Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler) has prepared this 18th Semiannual Corrective Action Effectiveness Report (CAER) on behalf of Atlanta Gas Light Company (AGLC). This report summarizes the results of the groundwater monitoring event performed in July 2015 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 EPD-VRP-011 issued December 3, 2014;
- Fulfill requirements for groundwater monitoring outlined in the 2001 Corrective Action Plan (CAP) prepared for AGLC by ThermoRetec Consulting Corporation (ThermoRetec, 2001);
- Monitor changes in groundwater constituent-of-interest (COI) concentrations to evaluate post-remediation groundwater quality; and
- Confirm the continued stability of Galliard and bedrock groundwater plume extents.

2.0 BACKGROUND

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 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 (OU-1 and -2) was submitted by MACTEC 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 on January 16, 2009, and approved by EPD in a letter dated March 30, 2009. A bedrock groundwater extraction and treatment system has operated at the Site since November 2006. Groundwater is 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 Ground Water 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 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. 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 installed monitoring wells have been included in the 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 (MW-11, MW-23, MW-211, 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 Georgia Voluntary Remediation Program (VRP). AGLC received a letter from EPD concurring with moving 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 Voluntary Investigation and Remediation Plan (VIRP) in lieu of a RCAP by August 28, 2014, consistent with the original RCAP submittal deadline. The VIRP was hand-delivered to the EPD on August 28, 2014.

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 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 are to be addressed in subsequent progress reports.

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 *Ground Water Monitoring and Evaluation Plan* presented as Section 5.0 of the 2001 *CAP* (ThermoRetec, 2001) and, in part, the *Update of the Revised Ground Water Monitoring Plan* (GMP; ENSR Correspondence, May 2007). The sampling event conducted in July 2015 was the 18th 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 18th 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. As noted earlier, the bedrock monitoring wells installed in July 2008 were included in the July 2014 sampling event.

As indicated in ERM's November 14, 2008 response to EPD, long-term inclusion of these wells in the monitoring network was evaluated based on the sampling results. In addition, the four Galliard monitoring wells and one bedrock monitoring well installed in October 2010 were included in this sampling event. The February 2012 *SCM Addendum* proposed further modifications to the monitoring well network. 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 July 2015 sampling event. One monitoring well has been destroyed by activities associated with City of Augusta contractors (MW-506BR). MW-506BR was paved over during improvements to Dyess Park and is no longer accessible for sampling. The protective cover at MW-5 was destroyed during work conducted by the City of Augusta Canal Authority during construction of the Canal Trail. The protective cover was under repair during the July 2015 sampling event, and MW-5 was not sampled. In addition, four monitoring wells were not sampled due to the presence of non-aqueous phase liquid (NAPL) observed during gauging (MW-205, MW-502D, MW-600 and MW-603). Also, MW-307TZ was sampled during the July 2015 sampling event, although it is listed as "gauge only" on Table 2-1. As a result, groundwater samples were collected from fifty-five monitoring wells. 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 July 2015:

MW-12	MW-19	MW-202DR	MW-203	MW-207
MW-213	MW-308BR	MW-310SAP	MW-310BR	MW-311
MW-402S	MW-402D	MW-508BR	MW-601	

- The protective cover at MW-5 was destroyed by the City of Augusta Canal Authority during construction of the Canal Trail, and was under repair during the July 2015 sampling event. As such, MW-5 was not sampled.
- MW-205 was not sampled due to NAPL observed during gauging.

2.3.2 Off-Site Wells Sampled

Off-Site monitoring wells sampled (or reasons for not sampling) in July 2015 include the following:

- City of Augusta ROW: MW-21, MW-22, MW-206, MW-214, MW-313, MW-408DR, MW-408S, MW-500BR, MW-503BR, MW-504BR, MW-507BR, MW-509BR, MW-510BR, and MW-513BR
- Augusta Civic Center Authority: MW-318, MW-320, and MW-325
- AGLC owned and/or leased to Miracle Making Ministries: MW-401S, MW-401D, MW-401SAP, MW-404DR, MW-501S, MW-505D, and MW-602
- Miracle Making Ministries: MW-304

- Amoco: MW-306D, MW-306SAP, MW-306TZ, MW-306BR, MW-511BR, and MW-512BR
- Joseph Norris: MW-303 and MW-309BR
- Georgia Power: MW-307D, MW-307SAP, MW-307TZ, MW-307BR, MW-321, and MW-324
- The Catholic Church of the Most Holy Trinity: MW-319
- United States Post Office: MW-315
- MW-502D, MW-600 and MW-603 were not sampled due to NAPL 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. ERM replaced or repaired any well caps or locks that were damaged or missing. In addition to MW-5 (protective well cover under repair) and MW-506BR (destroyed), damage to the well vault lids and locking caps were noted for MW-408S and MW-408DR. AGLC has contacted the Canal Authority regarding this damage and repairs are being scheduled. Prior to sampling, all wells were gauged with an oil-water interface meter for depth to water.

Due to the historical detections of non-aqueous phase liquid (NAPL) at MW-205, MW-502D, MW-600 and MW-603, care was taken to prevent possible cross contamination. A dedicated interface probe was dropped to the bottom of these wells as part of the groundwater gauging event to assess whether NAPL was present. NAPL was detected at the bottom of well MW-502D and a non-continuous detection of NAPL thickness was measured within the well column of MW-205, MW-600 and MW-603. Due to the detections of NAPL, MW-205, MW-502D, MW-600 and MW-603 were not sampled.

Before groundwater samples were collected, each well was purged using low-flow/low-volume techniques conducted in accordance with ERM'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 Procedures (USEPA, 2013). Monitoring wells experiencing excessive drawdown (>0.3 feet) were purged by removing a minimum of three well volumes or until the well ran dry, with the exception of bedrock wells where the removal of so large a volume was infeasible. 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 July 2015 sampling event are included in Appendix A.

Groundwater samples were analyzed for the COI list (Table 2-3) as referenced in the CAP and the revised GMP. 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. One trip blank accompanied 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. Six field duplicates were collected, one from each of the following wells: MW-12, MW-306TZ, MW-315, MW-401S, MW-508BR, and MW-601. All duplicate samples were analyzed for COI. Duplicates were collected to determine the precision of groundwater sample analysis and the variability of collection procedures.
- Matrix Spikes and Matrix Spike Duplicates. A total of three Matrix Spike and Matrix Spike Duplicate (MS/MSD) sample sets were collected from MW-207, MW-402S, and MW-319 as part of the laboratory analytical batch QC.

2.6 MANAGEMENT OF INVESTIGATION WASTE

All purge water from sampling activities was treated by the on-Site treatment system prior to ultimate discharge to the POTW. Personal protective equipment and other trash was placed in bags and deposited in solid waste containers.

3.0 GROUNDWATER MONITORING RESULTS

This section summarizes results of the July 2015 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 July 2015 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 July 2015 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, the average of porosity estimates given in the 2003 Remedial Investigation report, and July 2015 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 treat 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. As MW-307BR and the adjacent wells were approved for imminent abandonment due to upcoming scheduled construction activities in Block D, MW-307BR was not restarted. As MW-307BR had remained off for approximately a month prior to the July 27, 2015 groundwater level measurement event, the July 2015 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, no groundwater elevation contours are associated with this area.

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. Alluvium groundwater in July 2015 flowed toward the Northern Parcel from the north (MW-501S), west (MW-402S), and the south (MW-17 and MW-401S) (Figure 3-1). Seepage velocity in alluvial groundwater is estimated to be $1.1*10^{-1}$ ft/day.

The general post-ISS local flow pattern in the Galliard Formation has been an easterly flow, with a steeper groundwater gradient along the western boundary of the canal west of the Northern Parcel with a zone of nearly flat gradient encompassing the Site. This pattern is observed during the July 2015 monitoring event with overall groundwater flowing easterly, toward the Savannah River (Figure 3-2). The groundwater flow conditions observed beginning in January 2011 differed from the pattern during previous monitoring events conducted from January 2008 through July 2010, where localized mounding occurred 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 Car Wash area, which causes groundwater downgradient

(east) of the ISS mass 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 mass is estimated to range from $1.6*10^{-3}$ to $1.1*10^{-2}$ ft/day.

The July 2015 groundwater elevation data for the saprolite unit indicates groundwater flow trends east toward MW-214 (Figure 3-3). The differences in the groundwater elevations between MW-307SAP (located adjacent to MW-307BR) and MW-306SAP (located approximately 250 feet upgradient of MW-307BR) were previously compared for operating and non-operating periods. In July 2008 (system shutdown), the elevation difference was 0.36 feet, while in January and July 2009 (system running) the elevation differences were 2.39 and 2.45 feet, respectively. Comparisons of elevation data for MW-214 (located near MW-308BR) and MW-309SAP (located over 400 feet downgradient) during the same time periods indicate similar relationships. This suggests that the bedrock extraction system influences groundwater flow within the saprolite. 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. The elevation of groundwater in saprolite is lower than the elevation of the bottom of the ISS mass and; therefore, interpreted groundwater flow is beneath the ISS mass. Seepage velocity in saprolite groundwater is estimated to be $1.3*10^{-4}$ ft/day.

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. Groundwater flow, as well as dissolved constituent transport, is dominated by the northeast-southwest orientation of the primary fracture system (see the *Bedrock Ground Water Investigation Report* [AECOM, 2009] for a more detailed discussion of the bedrock features).

Potentiometric surface contour lines are presented in Figure 3-4 to infer potential groundwater flow directions in bedrock in July 2015 following over eight years of extraction system operation.

Because of the influence of bedrock fracture orientation, localized groundwater flow is not necessarily perpendicular to the potentiometric surface 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 $6.4*10^{-3}$ and $9.0*10^{-1}$ ft/day.

Based on July 2015 data collected under ambient (non-pumping) conditions, groundwater flow in bedrock appears to be toward the southeast (Figure 3-4). The groundwater recovery well at MW-307BR, which had subsequently returned to operation following the January 2015 sampling event until ceasing pumping in June 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 July 2015 from wells monitoring the various aquifers are summarized in Tables 3-2 through 3-6. These results were compared to Type 1 Risk Reduction Standards (RRS). Detected concentrations exceeding the Type 1 RRS are presented in Figures 3-5 through 3-7. 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 Appendix E. A summary of the July 2015 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. There were no alluvium monitoring wells with Type 1 RRS exceedances in July 2015.

Benzene and cadmium were reported in January 2015 at MW-501S at concentrations of 35 micrograms per liter (µg/L) and 0.0153 milligrams per liter (mg/L), respectively, above the Type 1 RRS of 5 µg/L and 0.005 mg/L, respectively. Benzene had not historically been detected in MW-501S, which is located on the west side of the canal.

Prior to the January 2015 event, all benzene results had been non-detect since February 2007, with the exception of an estimated concentration (0.37J µg/L) in July 2010. There were no detections of benzene in any of the alluvium monitoring wells in July 2015, including MW-501S.

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 locations where exceedances occurred and the concentrations of COI detected above the Type 1 RRS during the July 2015 groundwater monitoring event are shown in Figure 3-5. The distributions of benzene and naphthalene concentrations in groundwater samples collected from the Galliard Formation are depicted in Figure 3-8.

The greatest number of COI and the highest detected concentrations are found in groundwater sampled from wells MW-12 and MW-601 located in the northeast corner of the Southern Parcel and in the western-central portion of Block E, respectively (Figures 3-5 and 3-8). Monitoring wells MW-205, MW-502D, MW-600 and MW-603 contained DNAPL and were not sampled.

3.2.2.1 Volatile Organic Compound Results

During the July 2015 sampling event, benzene concentrations exceeding the applicable Type 1 RRS in groundwater were reported at three well locations (MW-12, MW-304 and MW-601). Ethylbenzene concentrations exceeding the applicable Type 1 RRS were reported in two groundwater samples (MW-12 and MW-601). A toluene concentration exceeding the applicable Type 1 RRS was reported in one groundwater sample (MW-601; 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.

Trichloroethylene (TCE) concentrations exceeding the applicable Type 1 RRS in groundwater were reported at well locations MW-21 and MW-401D. TCE is not an MGP-related constituent. No other VOCs were detected at MW-21 and MW-401D.

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 specific VOCs analyzed in groundwater samples collected at monitoring well MW-601 (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. 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 3-5. During the July 2015 sampling event, naphthalene concentrations exceeding the applicable Type 1 RRS in groundwater were reported at three well locations (MW-12, MW-505D and MW-601). An isoconcentration map showing naphthalene distribution is presented as Figure 3-8. 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 3-5 indicate that the only inorganic compound to exceed Type 1 RRS during the July groundwater monitoring event was as follows:

- Cadmium at MW-401D was detected at 0.0421 mg/L, above the Type 1 RRS of 0.005 mg/L.

The laboratory reporting limit for antimony (0.02 mg/L), beryllium (0.01 mg/L) and thallium (0.02 mg/L) exceeded the respective Type 1 RRS values (Table 3-3).

3.2.3 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 3-6.

Concentrations detected at MW-311 exceeded the Type 1 RRS for benzene (5 µg/L) at 480 µg/L and naphthalene (20 µg/L) at 250 µg/L, and at MW-401SAP exceeded the Type 1 RRS for TCE (5 µg/L) at 17 µg/L. TCE is not an MGP-related constituent. No other VOCs or SVOCs exceeded Type 1 RRS for saprolite wells in the July sampling event.

Nickel concentrations were reported above Type 1 RRS (0.1 mg/L) at MW-306SAP (0.306 mg/L) and MW-310SAP (0.287 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-214 (0.0076 mg/L). Laboratory reporting limits for antimony (0.02 mg/L), beryllium (0.01 mg/L) and thallium (0.02 mg/L) exceeded the respective Type 1 RRS values.

3.2.4 Transition Zone

Analytical results for samples collected from transition zone wells MW-306TZ and MW-307TZ are compared to their respective Type 1 RRS in Table 3-5. Type 1 RRS exceedances for the transition zone wells are presented in Table 3-10. As shown on Figure 3-7, naphthalene was detected at a

concentration exceeding the Type 1 RRS (20 µg/L) in MW-306TZ at 200 µg/L. There were no other Type 1 RRS exceedances for VOCs or inorganic compounds in MW-306TZ or MW-307TZ during the July 2015 sampling event.

3.2.5 Bedrock

Bedrock sampling results reported from the July 2015 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 3-7.

3.2.5.1 Volatile Organic Compound Results

As shown on Figure 3-7, benzene and ethylbenzene were the only VOCs detected at concentrations exceeding the Type 1 RRS in bedrock monitoring wells during the July 2015 sampling event.

- Benzene concentrations exceeded the Type 1 RRS (5 µg/L) in eleven bedrock monitoring wells ranging from a low of 19 µg/L at MW-318 to a high of 8,400 µg/L at MW-213; and
- Ethylbenzene was detected at a concentration exceeding the Type 1 RRS (700 mg/L) at MW-213 (1,500 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 limits exceeded the Type 1 RRS for specific VOCs analyzed in groundwater samples collected at monitoring wells MW-213, MW-307R and MW-500BR. Samples that were analyzed at a dilution exceeding the Type 1 RRS have been highlighted in Table 3-6. The laboratory reports indicate the dilution factor for each sample ID (Appendix B).

3.2.5.2 Semi-Volatile Organic Compound Results

One or more SVOCs were detected at concentrations exceeding their Type 1 RRS in groundwater samples collected at nine bedrock well locations during the July 2015 sampling event (Figure 3-7, Table 3-6, and Table 3-11). Naphthalene was the primary SVOC detected above Type 1 RRS (20 µg/L) at concentrations ranging from 30 µg/L (MW-306BR) to 7,100 µg/L (MW-213). Concentrations and specific COI detected in bedrock groundwater samples above Type 1 RRS are similar to those reported in previous events.

3.2.5.3 Inorganic Compound Results

The only Type 1 RRS exceedances for metals in bedrock groundwater were for cadmium (Type 1 RRS value of 0.005 mg/L) in monitoring well MW-309BR (0.0072 mg/L), monitoring well MW-325 (0.0122 mg/L) and monitoring well MW-500BR (0.0237 mg/L). Laboratory reporting limits for antimony (0.02 mg/L), beryllium (0.01 mg/L), and thallium (0.02 mg/L) exceeded the respective Type 1 RRS values.

3.3.4 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 ERM's data validation specialist. 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, ERM's data validation specialist reviewed sample delivery groups 1507O67 and 1507Q56. The following items were included in the data validation review:

- Surrogate recoveries.
- Relative percent difference (RPD) between primary/field duplicate samples.
- Field and laboratory blank contamination.
- Holding times, sample receipt conditions, dilution factors, chains of custody
- Trip blanks.
- Sample duplicates.

As shown in Appendix D, the duplicate sample results received from the laboratory correlated well with those from parent samples collected during the July 2015 event; of a total of 48 RPD calculations, seven calculations showed differences exceeding 30 percent between parent and duplicate samples. Five of the exceedances occurred in sample MW-601-20150730-01, four of which were SVOCs (acenaphthene, fluorene, naphthalene, and pyrene) and one metal (zinc). One exceedance occurred in both MW-12-20150729-01 (acenaphthene) and MW-315-20150730-01 (naphthalene).

Three MS/MSD sample sets were collected and analyzed as part of the laboratory analytical batch QC (MW-207-20150727-01, MW-402S-20150728-01, and MW-319-20150728-01). The data validation review (Appendix D) includes a detailed discussion of sample integrity.

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 (July 2015) 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 Appendix E. 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. Reported January 2015 concentrations for benzene exceeded Type 1 RRS at MW-501S (35 µg/L) for the first time since the well was installed prior to the February 2007 sampling event, as shown on Appendix E-1. There were no exceedances of Type 1 RRS in any of the alluvium wells in July 2015, including MW-501S. MW-501S will continue to be evaluated to assess concentration trends at this location.

4.2 GALLIARD WELLS

Data collected during the July 2015 monitoring event indicate the following:

- Naphthalene and benzene 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 3-5). The benzene concentration reported for MW-304 (22 µg/L) continues a decreasing concentration trend since the January 2010 concentration (800 µg/L). Although the naphthalene concentration in MW-505D was higher in July 2015 (70 µg/L) than in the January 2015 sampling event (4.2 µg/L), the overall trend is still decreasing since the July 2013 concentration (870 µg/L).
- 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 (after January 2011) monitoring events. MW-603 continues to be the northern most impacted well and was not sampled in July 2015 due to the presence of DNAPL during gauging. DNAPL was reported on the interface probe while gauging well MW-603 during the July 2015 sampling event (Table 3-1). DNAPL was previously reported in MW-603 during the July 2013, January and July 2014, and January 2015 sampling events.
- 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. The naphthalene concentration high was reported in July 2013 (870 µg/L). Naphthalene concentrations were reported during January 2015 (4.2 µg/L) at a concentration below the Type 1 RRS (20 µg/L) for the first time since January 2012. Although the naphthalene concentration in MW-505D was higher in July 2015 (70 µg/L) than in the January 2015 sampling event, the overall trend is still decreasing.

- Concentrations of benzene and naphthalene remain highest in groundwater samples collected from the northeast corner of the Southern Parcel (MW-12) and the western portion of Block E (MW-601). MW-600, located on city ROW south of Block A, was not sampled in July 2015 due to the presence of a small amount of DNAPL reported on the interface probe while gauging (Table 3-1). Groundwater samples collected from the Galliard monitoring wells MW-12 and MW-601 report concentrations of benzene at 6,200 µg/L and 20,000 µg/L (duplicate sample concentrations of 6,000 µg/L and 21,000 µg/L), respectively; and naphthalene concentrations at 4,700 µg/L and 6,600 µg/L (duplicate sample concentrations of 5,200 µg/L and 4,300 µg/L), respectively (Figure 3-5).
- Groundwater samples collected from MW-21 and MW-401D reported concentrations of TCE above the Type 1 RRS (5 µg/L) at 11 µg/L and 14 µg/L, respectively. TCE has previously been detected in these wells and is not an MGP-related COI.

4.3 SAPROLITE WELLS

Six saprolite monitoring wells were sampled during the July 2015 monitoring event. VOC concentrations exceeding Type 1 RRS were reported in two groundwater samples, benzene in sample MW-311 (480 µg/L) and TCE in sample MW-401SAP (17 µg/L). The July 2015 sample results from MW-311 had an increased concentration of benzene to 480 µg/L from 370 µg/L and a decreased naphthalene concentration to 250 µg/L from 560 µg/L compared to the January 2015 event. Concentrations remain well below historic highs at this location (Appendix F).

4.4 TRANSITION ZONE WELLS

Naphthalene in MW-306TZ was the only COI reported above Type 1 RRS in the two transition zone monitoring wells (MW-306TZ and MW-307TZ) sampled in July 2015. Naphthalene was reported in the groundwater sample collected from MW-306TZ at 200 µg/L (duplicate sample concentration of 210 µg/L). This concentration shows a continued 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 Appendix E-2.

4.5 BEDROCK WELLS

Data collected during the July 2015 monitoring event indicate the following:

- Elevated concentrations of benzene and naphthalene continue to be present in the area northeast of the Northern Parcel near MW-307BR. Benzene and naphthalene concentrations declined at MW-307BR during the July 2015 monitoring event, although the concentrations are within the historical range observed at the well.
- The highest concentration of benzene was reported in MW-213 (8,400 µg/L), located on Block E east of the Northern Parcel. However, this benzene concentration represented a decrease from the January 2015 concentration (8,900 µg/L). Benzene concentrations appear to be possibly trending upwards at the MW-213 location. The benzene concentration at MW-500BR (the highest benzene concentration in January 2015), located south of the Northern Parcel on the southern side of the canal, decreased with the July 2015 event. Benzene concentrations appear to be generally stable or decreasing at this location since the benzene concentration high was reported in July 2012 (14,000 µg/L) (Appendix F).
- MW-319 continues 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.

- Bedrock well MW-315 delineates Type 1 RRS exceedances to the northwest. Bedrock well MW-507BR delineates the extent of naphthalene impacts in bedrock to the south-southwest in Block J, while 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-513BR during the July 2015 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 has been continuously operated since start up on November 30, 2006 with the exception of temporary shutdowns due to routine maintenance activities. MW-307BR and MW-308BR continued to be sampled through the extraction system as part of semiannual monitoring, but were no longer gauged. MW-307BR and MW-308BR were sampled by use of a peristaltic pump during the July 2015 sampling event as the pumps in the recovery wells were not operational during the sampling event.

This section describes operations and maintenance (O&M) activities that were performed on the bedrock groundwater extraction and treatment system at the Site from April 1, 2015 through August 31, 2015. The program includes ongoing evaluation of the hydraulic containment induced by the groundwater extraction system, recommendations for continued monitoring, and corrective actions for operational issues. System performance in removing impacted mass during this period is also evaluated.

5.1 PERFORMANCE AND OPERATIONS

Effluent samples are collected monthly for the permitted discharge requirements, with additional analyses run on a quarterly basis as set forth by the City of Augusta. Discharge Monitoring Reports are submitted monthly to the City of Augusta Pretreatment Coordinator in accordance with permit requirements. Analytical results of samples collected between April 2015 and June 2015 are summarized in Table 5-1. As the groundwater extraction system did not operate in July and August 2015 due to mechanical issues related to the groundwater pumps, no discharge occurred at the site during these months and no effluent samples were collected. There were no exceedances of the permit effluent limitations during the operational period from April 1, 2015 through August 31, 2015.

The treatment system has been running consistently since it was turned on (November 30, 2006), with only intermittent periods of shut down due routine repairs and maintenance. During the previous operational period (September 1, 2014 through March 31, 2015), the extraction system was shut down from December 29, 2014 – January 30, 2015 for carbon replacement. During restart of the system on January 30, 2015, the groundwater pump connected to MW-308BR was found to be damaged. Therefore, during this operational period (April 1, 2015 through August 31, 2015) the system operated with the use of MW-307BR only. MW-307BR ceased pumping in June 2015 due to mechanical issues with the groundwater pump (Table 5-2). As MW-307BR and the adjacent wells were approved for abandonment due to upcoming scheduled construction activities in Block D, MW-307BR was not restarted. MW-307BR and the adjacent Block D wells were abandoned on August 31-September 2, 2015.

The total volume of groundwater extracted during this period of groundwater extraction was 85,530 gallons from MW-307BR. No groundwater was extracted from MW-308BR during the period (Table 5-3). Activated carbon was not changed out during this operational period.

5.2 MASS REDUCTION CALCULATIONS

The total mass of benzene and naphthalene removed from bedrock groundwater during the period of system operation beginning April 1, 2015 and running through August 31, 2015 was calculated by multiplying the total volume extracted from the system by the concentration of benzene and naphthalene detected in each extraction well, where: *Mass (kilograms) = volume extracted*

(gallons) x concentration (µg/L). The total calculated mass of benzene and naphthalene extracted from MW-307BR during this period was 1.72 kilograms and 0.11 kilograms, respectively. MW-308BR did not operate during this period. The input parameters for the mass reduction calculations are presented in Table 5-3. Graphs showing the trends of the mass removal are provided in Appendix G.

As MW-307BR was abandoned on August 31-September 2, 2015 due to upcoming scheduled construction activities in Block D, and MW-308BR is not currently operating in the interim leading up to remediation that is tentatively scheduled to begin in Second Quarter 2016, the performance of the mass reduction calculations will be suspended during this interim period and during implementation of remediation.

As stated in the Voluntary Remediation Program 1st Semi-Annual Status Report (Amec Foster Wheeler, 2015), 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 may be sampled during In-Situ Solidification (ISS) implementation to continue to evaluate groundwater quality.

6.0 CONCLUSIONS

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

- There were no exceedances of COI in alluvium monitoring wells sampled in July 2015. The benzene exceedance in MW-501S in January 2015, the first since installation of the well, was not repeated in July 2015.
- Six wells in the Galliard Formation (MW-12, MW-21, MW-304, MW-401D, MW-505D, and MW-601) exceeded RRS for select organic COI. 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.
- Cadmium (MW-401D) was the only inorganic COI exceeding Type 1 RRS in Galliard groundwater samples during the July 2015 sampling event.
- DNAPL was observed in four wells (MW-205, MW-502D, MW-600 and MW-603), located within the Galliard groundwater plume during the July 2015 sampling event, and these wells were not sampled.
- Organic COI concentrations exceeding Type 1 RRS were reported in two groundwater samples collected from wells installed in the saprolite unit, benzene and naphthalene in sample MW-311 and TCE in sample MW-401SAP. Benzene and naphthalene concentrations remain well below historic highs in MW-311 (Appendix F).
- Nickel in MW-306SAP and MW-310SAP and cadmium in MW-214 were reported in excess of the RRS. No other inorganic COI exceeded RRS in July 2015 in wells installed in the saprolite unit.
- The groundwater sample collected from MW-306TZ in July 2015 exceeded the Type 1 RRS for naphthalene only. There were no other RRS exceedances in transition zone wells sampled during this event.
- Benzene was the only VOC that exceeded Type 1 RRS in the following bedrock wells: MW-307BR, MW-308BR, MW-318, MW-321, MW-500BR, MW-503BR, MW-504BR, MW-509BR, MW-510BR, and MW-511BR. Benzene and ethylbenzene exceeded Type 1 RRS in MW-213.
- One or more SVOCs were detected in nine bedrock monitoring wells in excess of RRS.
- Cadmium exceeded Type 1 RRS in wells MW-309BR, MW-325 and MW-500BR. There were no other inorganic COI exceedances in bedrock monitoring wells during the July 2015 sampling event.
- Removal of contaminant mass has continued since the bedrock extraction and treatment system began operating in November 2006. The cumulative mass of benzene removed by the system since operation began totals 757.00 kilograms. The cumulative mass of naphthalene removed by the system since operation began totals 466.20 kilograms.
- The bedrock extraction system is not currently operating in the interim leading up to remediation that is tentatively scheduled to begin in Second Quarter 2016. As stated in the Voluntary Remediation Program 1st Semi-Annual Status Report (Amec Foster Wheeler, 2015), 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 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 (CAMP) inspection have been documented in Appendix H.

The next semiannual groundwater monitoring event will be performed in January 2016 and the 19th Semiannual Corrective Action Effectiveness Report will be submitted as an appendix to a Semiannual Status Report in the VRP.

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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		Gauge and Sample	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	Gauge and Sample	On-site
MW-203	Middle Galliard	Gauge and Sample	On-site
MW-205	Galliard	Gauge and Sample	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***		Gauge and Sample	Off-site
MW-309D		Gauge Only	Off-site
MW-310D		Gauge Only	On-site
MW-401D		Gauge and Sample	Off-site
MW-402D		Gauge and Sample	On-site
MW-404DR		Gauge and Sample	Off-site
MW-408D		Gauge and Sample	Off-site
MW-502D		Gauge and Sample	On-site
MW-505D		Gauge and Sample	Off-site
MW-600		Gauge and Sample	Off-site
MW-601		Gauge and Sample	On-site
MW-602		Gauge and Sample	Off-site
MW-603		Gauge and Sample	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***		Gauge and Sample	Off-site
MW-310SAP		Gauge and Sample	On-site
MW-311		Gauge and Sample	On-site
MW-401SAP		Gauge and Sample	Off-site
Transition Zone and Bedrock Monitoring Wells			
MW-213	Bedrock	Gauge and Sample	On-site
MW-306TZ	Transition Zone	Gauge and Sample	Off-site
MW-306BR	Bedrock	Gauge and Sample	Off-site
MW-307TZ***	Transition Zone	Gauge Only	Off-site
MW-307BR***	Bedrock	Gauge and Sample	Off-site
MW-308BR		Gauge and Sample	On-site
MW-309BR		Gauge and Sample	Off-site
MW-310BR		Gauge and Sample	On-site
MW-313		Gauge and Sample	Off-site
MW-315		Gauge and Sample	Off-site
MW-316***		Gauge Only	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***		Gauge and Sample	Off-site
MW-322***		Gauge Only	Off-site
MW-323***		Gauge Only	Off-site
MW-324***		Gauge and Sample	Off-site
MW-325		Gauge and Sample	Off-site
MW-500BR		Gauge and Sample	Off-site
MW-503BR		Gauge and Sample	Off-site
MW-504BR		Gauge and Sample	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		Gauge and Sample	Off-site
MW-510BR		Gauge and Sample	Off-site
MW-511BR		Gauge and Sample	Off-site
MW-512BR		Gauge and Sample	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-5 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

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

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

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-5 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

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
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

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

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
July 27, 2015
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 7/27/2015 (ft BTOC)	Groundwater Elevation (ft AMSL)	Thickness of NAPL (ft)
Alluvium Monitoring Wells						
MW-05	Alluvium	132.11	19.5	NM	NM	--
MW-17	Alluvium	138.85	16.94	11.50	127.35	--
MW-306S	Alluvium	131.96	8.6	8.66	123.30	--
MW-401S	Alluvium	136.89	19.15	10.27	126.62	--
MW-402S	Alluvium	136.89	19.25	12.52	124.37	--
MW-408S	Alluvium	133.31	19.1	8.73	124.58	--
MW-501S	Alluvium	132.80	11.68	7.96	124.84	--
Galliard Formation Monitoring Wells						
MW-12	Galliard	131.31	26.65	8.37	122.94	--
MW-19	Galliard	140.37	19.05	12.62	127.75	--
MW-21	Galliard	128.54	29.15	7.15	121.39	--
MW-22	Galliard	129.60	22.6	6.68	122.92	--
MW-24	Galliard	130.21	22.59	7.46	122.75	--
MW-25	Galliard	128.88	23.4	6.01	122.87	--
MW-202DR	Galliard	131.59	29.12	8.45	123.14	--
MW-203	Galliard	130.74	26.55	7.73	123.01	--
MW-205	Galliard	130.94	26.6	7.93	123.01	NAPL on probe
MW-206	Galliard	130.06	28.35	7.01	123.05	--
MW-207	Galliard	132.68	26	6.07	126.61	--
MW-303	Galliard	129.37	30.55	7.00	122.37	--
MW-304	Galliard	131.51	36.12	8.99	122.52	--
MW-306D	Galliard	131.89	24.46	8.44	123.45	--
MW-307D	Galliard	130.45	23.98	6.60	123.85	--
MW-309D	Galliard	129.79	27.62	7.21	122.58	--
MW-310D	Galliard	138.70	27.4	14.10	124.60	--
MW-401D	Galliard	134.38	35.91	10.24	124.14	--
MW-402D	Galliard	136.95	26.41	12.60	124.35	--
MW-404DR	Galliard	133.15	21.47	8.25	124.90	--
MW-408DR	Galliard	133.02	29.8	8.19	124.83	--
MW-502D	Galliard	131.18	25.7	6.35	124.83	3.15'
MW-505D	Galliard	128.87	28.5	5.17	123.70	--
MW-600	Galliard	131.02	32	6.66	124.36	NAPL on probe
MW-601	Galliard	130.82	27	7.62	123.20	--
MW-602	Galliard	130.20	32	8.06	122.14	--
MW-603	Galliard	130.65	27	6.65	124.00	NAPL on probe

Notes:
ft = Feet
AMSL = above mean sea level
BTOC = below top of casing
NAPL = non-aqueous phase liquid

Table 3-1
Depth to Water and Groundwater Elevations
July 27, 2015
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 7/27/2015 (ft BTOC)	Groundwater Elevation (ft AMSL)	Thickness of NAPL (ft)
Saprolite Monitoring Wells						
MW-214	Saprolite	129.65	57.1	7.05	122.60	--
MW-306SAP	Saprolite	131.92	31.23	8.46	123.46	--
MW-307SAP	Saprolite	130.48	29.75	6.87	123.61	--
MW-309SAP	Saprolite	129.82	34.31	6.47	123.35	--
MW-310SAP	Saprolite	138.72	34.11	14.14	124.58	--
MW-311	Saprolite	130.11	32.3	7.18	122.93	--
MW-317	Saprolite	130.64	41.17	8.11	122.53	--
MW-401SAP	Saprolite	134.27	42.8	10.14	124.13	--
Transition Zone and Bedrock Monitoring Wells						
MW-213	Bedrock	130.92	62.31	8.25	122.67	--
MW-306TZ	TransZone	131.93	57.82	8.48	123.45	--
MW-306BR	Bedrock	131.81	78.99	8.55	123.26	--
MW-307TZ	TransZone	130.48	46.35	7.03	123.45	--
MW-309BR	Bedrock	129.54	106	7.85	121.69	--
MW-309TZ	TransZone	129.76	75.66	7.52	122.24	--
MW-310TZ	TransZone	138.72	72	15.19	123.53	--
MW-310BR	Bedrock	139.49	89.23	15.81	123.68	--
MW-313	Bedrock	129.02	85.6	7.05	121.97	--
MW-315	Bedrock	131.74	85.51	8.01	123.73	--
MW-316	Bedrock	130.51	118.01	7.76	122.75	--
MW-318	Bedrock	130.75	87.15	8.02	122.73	--
MW-319	Bedrock	132.98	79.6	9.37	123.61	--
MW-320	Bedrock	131.74	68.44	8.85	122.89	--
MW-321	Bedrock	130.48	170	7.61	122.87	--
MW-322	Bedrock	130.65	86.1	7.85	122.80	--
MW-323	Bedrock	130.53	95	8.21	122.32	--
MW-324	Bedrock	130.98	215	8.27	122.71	--
MW-325	Bedrock	131.44	108.08	9.97	121.47	--
MW-500BR	Bedrock	132.66	54.9	9.34	123.32	--
MW-503BR	Bedrock	131.57	76	8.20	123.37	--
MW-504BR	Bedrock	130.91	80	7.65	123.26	--
MW-506BR	Bedrock	139.22	81	Destroyed		--
MW-507BR	Bedrock	138.75	126	9.54	129.21	--
MW-508BR	Bedrock	133.25	87	10.52	122.73	--
MW-509BR	Bedrock	130.63	76	7.30	123.33	--
MW-510BR	Bedrock	130.75	80	7.46	123.29	--
MW-511BR	Bedrock	130.82	76	7.53	123.29	--
MW-512BR	Bedrock	131.69	84	8.35	123.34	--
MW-513BR	Bedrock	132.03	82	8.06	123.97	--

Notes:

Groundwater measurments taken 7/27/2015

ft = Feet

AMSL = above mean sea level

BTOC = below top of casing

NAPL = non aqueous phase liquid

NM = not measured

MW-307BR and MW-308BR are used for groundwater extraction and depth to groundwater measurements are not collected

Prepared by/date: MHA 10/14/2015

Checked by/date: TRK 10/15/2015

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

		Location ID	MW-401S	MW-401S	MW-402S	MW-408S	MW-501S
		Sample Date	7/30/2015	7/30/2015	7/28/2015	7/29/2015	7/30/2015
		Sample Type	N	DUP-05	N	N	N
Field Parameters	**Type 1 RRS**	**Units**					
Specific Conductivity	--	mS/cm	451	451	565	1517	739
Dissolved Oxygen	--	mg/L	0.69	0.69	0.95	0.95	0.22
Oxidation-Reduction Potential	--	mV	67.7	67.7	49.2	-125.2	-34.7
pH	--	pH units	6.25	6.25	6.12	6.37	6.76
Temperature	--	deg C	22.7	22.7	26.4	26	27.7
Turbidity	--	NTU	3.02	3.02	1.31	9.64	0.86
MNA							
Carbon dioxide	--	mg/L	--	--	--	--	--
Iron, as Ferrous (Fe+2)	--	mg/L	--	--	--	--	--
Methane	--	µg/L	--	--	--	--	--
Nitrate as N	--	mg/L	--	--	--	--	--
Oxygen	--	mg/L	--	--	--	--	--
Sulfate	--	mg/L	--	--	--	--	--
VOCs							
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50
Benzene	5	µg/L	< 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
Ethylbenzene	700	µg/L	< 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
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Xylenes	10,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
SVOCs							
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	0.1	µg/L	< 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
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	0.2	µg/L	< 0.05	< 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
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	20	µg/L	< 0.5	**21**	< 0.5	**1.2**	< 0.5
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Inorganics							
Antimony	0.006	mg/L	< 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
Barium	2	mg/L	**0.0916**	**0.097**	**0.0857**	**0.599**	**0.152**
Beryllium	0.004	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
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	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Vanadium	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	**0.0276**

Notes:
N = Normal sample
DUP = Duplicate sample
RRS = Risk Reduction Standard
BOLD=exceeds laboratory detection limit
Analyte concentration exceeds the Type 1 RRS
Detection limit exceeds the Type 1 RRS
-- = Not Analyzed

Prepared by/date: RMB 10/14/15
Checked by/date: MBB 10/30/15

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

		Location ID	MW-12	MW-12	MW-19	MW-21	MW-22	MW-202DR	MW-203	MW-206	MW-207	MW-303	MW-304	MW-306D	MW-307D	MW-401D	MW-402D	MW-404DR	MW-408DR	MW-505D	MW-601	MW-601	MW-602
		Sample Date	7/29/2015	7/29/2015	7/30/2015	7/28/2015	7/28/2015	7/28/2015	7/29/2015	7/30/2015	7/27/2015	7/28/2015	7/30/2015	7/28/2015	7/28/2015	7/30/2015	7/28/2015	7/30/2015	7/29/2015	7/29/2015	7/30/2015	7/30/2015	7/28/2015
		Sample Type	N	DUP-01	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	DUP-04	N
Field Parameters	**Type 1 RRS**	**Units**																					
Specific Conductivity	--	mS/cm	239	239	580	720	233	580	469.1	680	504	471	590	693	502	458	658	752	786	654	590	590	620
Dissolved Oxygen	--	mg/L	0.31	0.31	1.85	0.23	0.6	0.28	0.22	1.93	4	0.34	0.32	0.41	0.3	0.37	0.75	0.45	1.1	0.26	0.3	0.3	0.7
Oxidation-Reduction Potential	--	mV	265.1	265.1	252.8	272.3	293.2	285.3	82	242.6	-50	5.4	240.9	16	-42.3	126.7	26.3	118.6	-60.1	-44.2	234.1	234.1	-46.9
pH	--	pH units	6.01	6.01	6.22	6.27	6.32	6.31	6.3	6.92	6.25	6.25	6.03	6.14	6.38	6.26	6.21	6.47	5.89	6.1	6.08	6.08	5.94
Temperature	--	deg C	26.7	26.7	23	31.9	25.1	30.7	24.4	28	32.4	26.9	26	26	26.3	29.6	26.9	25.5	24.7	29.7	25.7	25.7	29.1
Turbidity	--	NTU	3.43	3.43	3.07	1.76	3.19	1.54	4.23	17.1	12.4	9.76	8.18	2.19	8.85	3.04	2.95	5.74	23.3	8.59	35.5	35.5	34.1
MNA																							
Carbon dioxide	--	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron, as Ferrous (Fe+2)	--	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as N	--	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	--	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	--	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs																							
Acetone	4,000	µg/L	< 1.0	< 5000	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 2500	< 2500	< 50
Benzene	5	µg/L	**6200**	**6000**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**22**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**20000**	**21000**	< 5.0
Carbon disulfide	4,000	µg/L	< 1.0	< 500	< 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	< 250	< 250	< 5.0
Ethylbenzene	700	µg/L	**1800**	**1500**	< 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	**5.9**	**1400**	**1500**	< 5.0
Methylene chloride	5	µg/L	< 1.0	< 500	< 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	< 250	< 250	< 5.0
Toluene	1,000	µg/L	**690**	**640**	< 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	**12000**	**14000**	< 5.0
Trichloroethene	5	µg/L	< 1.0	< 500	< 5.0	**11**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**14**	< 5.0	< 5.0	< 5.0	< 5.0	< 250	< 250	< 5.0
Xylenes	10,000	µg/L	**1200**	**950**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**7.9**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**3500**	**3400**	< 5.0
SVOCs																							
Acenaphthene	2,000	µg/L	**74**	**76**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**27**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**22**	**9.5**	**1.0**	**5.6**	**1.6**
Acenaphthylene	10	µg/L	**1.4**	**2.3**	< 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	< 1.0	**5**	< 1.000	< 1.0
Anthracene	10	µg/L	**1.3**	**1.4**	**0.12**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.56**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.69**	**0.31**	**3.7**	**2.8**	**0.073**
Benzo(a)anthracene	0.1	µg/L	< 0.05	< 0.05	**0.053**	< 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	< 0.05	**0.14**	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	**0.054**	< 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	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	**0.11**	< 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	< 0.1	< 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	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
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	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
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	< 0.05	< 0.05	< 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	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	1,000	µg/L	**0.25**	**0.26**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.38**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.16**	**0.27**	**0.35**	**0.27**	< 0.1
Fluorene	1,000	µg/L	**15**	**16**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**4**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**1.2**	**1.9**	**3**	**16**	**0.17**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	**0.07**	< 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	< 0.05	< 0.05	< 0.05
Naphthalene	20	µg/L	**4700**	**5200**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**18**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.63**	**70**	**6600**	**4300**	< 0.5
Phenanthrene	10	µg/L	**10**	**12**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.06**	**2.9**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**4.2**	**1.6**	**12**	**9.4**	< 0.05
Pyrene	1,000	µg/L	**0.26**	**0.24**	**0.12**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.11**	**0.39**	< 0.05	**0.056**	< 0.05	< 0.05	< 0.05	**0.15**	**0.38**	**0.45**	**0.31**	**0.064**
Inorganics																							
Antimony	0.006	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	< 0.02	< 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	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Barium	2	mg/L	**0.218**	**0.213**	**0.0881**	**0.0969**	**0.0349**	**0.0619**	**0.0545**	**0.276**	**0.305**	**0.0916**	**0.384**	**0.403**	**0.082**	**0.0775**	**0.079**	**0.118**	**0.551**	**0.383**	**0.213**	**0.215**	**0.51**
Beryllium	0.004	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	< 0.01	< 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	**0.0421**	< 0.005	< 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	< 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
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	< 0.01	< 0.01	< 0.01	**0.0175**	< 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	< 0.01	< 0.01	**0.022**	**0.019**	< 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	< 0.01	< 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	< 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
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	< 0.02	< 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	< 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
Thallium	0.002	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	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Vanadium	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.0176**	< 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
Zinc	2	mg/L	< 0.02	< 0.02	**0.113**	< 0.02	< 0.02	< 0.02	< 0.02	**0.0759**	< 0.02	< 0.02	**0.0475**	**0.0323**	< 0.02	**0.0839**	< 0.02	< 0.02	< 0.02	**0.0781**	**0.052**	**0.0339**	**0.0407**

Notes:
N = Normal sample
DUP = Duplicate sample
DNAPL - Well not sampled due to presence of DNAPL
RRS = Risk Reduction Standard
BOLD=exceeds laboratory detection limit
Analyte concentration exceeds the Type 1 RRS
Detection limit exceeds the Type 1 RRS
H = Sample was prepped or analyzed beyond hold time
-- = Not Analyzed

Prepared by/date: RMB 10/14/15
Checked by/date: MBB 10/30/15

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

		Location ID	MW-214	MW-306SAP	MW-307SAP	MW-310SAP	MW-311	MW-401SAP
		Sample Date	7/28/2015	7/28/2015	7/28/2015	7/28/2015	7/29/2015	7/28/2015
		Sample Type	N	N	N	N	N	N
Field Parameters	**Type 1 RRS**	**Units**						
Specific Conductivity	--	mS/cm	300	1459	571	453.9	457.7	317
Dissolved Oxygen	--	mg/L	0.45	0.65	0.49	0.44	0.58	0.99
Oxidation-Reduction Potential	--	mV	277.8	-28.1	-14.4	162.7	-42.6	81.1
pH	--	pH units	6.85	6.06	6.57	5.85	6.08	5.85
Temperature	--	deg C	27.6	25.9	27.7	28	24.3	24.5
Turbidity	--	NTU	5.74	8.55	1.22	1.41	5.39	1.97
MNA								
Carbon dioxide	--	mg/L	--	--	--	--	--	--
Iron, as Ferrous (Fe+2)	--	mg/L	--	--	--	--	--	--
Methane	--	µg/L	--	--	--	--	--	--
Nitrate as N	--	mg/L	--	--	--	--	--	--
Oxygen	--	mg/L	--	--	--	--	--	--
Sulfate	--	mg/L	--	--	--	--	--	--
VOCs								
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	**480**	< 5.0
Carbon disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	**61**	< 5.0
Methylene chloride	5	µg/L	< 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
Trichloroethene	5	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**17**
Xylenes	10,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	**16**	< 5.0
SVOCs								
Acenaphthene	2,000	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	**14**	< 0.5
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0	< 1.0	**1.0**	< 1.0
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	**0.64**	< 0.05
Benzo(a)anthracene	0.1	µg/L	< 0.05	< 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
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	< 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
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 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
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	1,000	µg/L	< 0.1	< 0.1	< 0.1	< 0.1	**6.2**	< 0.1
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.5	**250**	**0.56**
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	**4.1**	< 0.05
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Inorganics								
Antimony	0.006	mg/L	< 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
Barium	2	mg/L	**0.379**	**0.682**	**0.0715**	**0.0801**	**0.218**	**0.0623**
Beryllium	0.004	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	**0.0076**	< 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	**0.018**	< 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	**0.00042**
Nickel	0.1	mg/L	< 0.02	**0.306**	< 0.02	**0.287**	< 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	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Vanadium	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Zinc	2	mg/L	**0.0323**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Notes:
N = Normal sample
DUP = Duplicate sample
RRS = Risk Reduction Standard
BOLD=exceeds laboratory detection limit
Analyte concentration exceeds the Type 1 RRS
Detection limit exceeds the Type 1 RRS
H = Sample was prepped or analyzed beyond hold time
-- = Not Analyzed

Prepared by/date: RMB 10/14/15
Checked by/date: MBB 10/30/15

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

		Facility	AGLC_AUGUSTA	AGLC_AUGUSTA	AGLC_AUGUSTA
		Location ID	MW-306TZ	MW-306TZ	MW-307TZ
		Sample Date	7/30/2015	7/30/2015	7/30/2015
		Sample Type	N	DUP-03	N
Field Parameters	**Type 1 RRS**	**Units**			
Specific Conductivity	--	mS/cm	758	758	535
Dissolved Oxygen	--	mg/L	0.22	0.22	0.31
Oxidation-Reduction Potential	--	mV	-66.6	-66.6	-59.7
pH	--	pH units	7.06	7.06	6.61
Temperature	--	deg C	25.3	25.3	27.4
Turbidity	--	NTU	1.79	1.79	0.79
MNA					
Carbon dioxide	--	mg/L	--	--	--
Iron, as Ferrous (Fe+2)	--	mg/L	--	--	--
Methane	--	µg/L	--	--	--
Nitrate as N	--	mg/L	--	--	--
Oxygen	--	mg/L	--	--	--
Sulfate	--	mg/L	--	--	--
VOCs					
Acetone	4,000	µg/L	< 50	< 50	< 50
Benzene	5	µg/L	< 5.0	< 5.0	< 5.0
Carbon disulfide	4,000	µg/L	< 5.0	< 5.0	< 5.0
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0
Methylene chloride	5	µg/L	< 5.0	< 5.0	< 5.0
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0
Trichloroethene	5	µg/L	< 5.0	< 5.0	< 5.0
Xylenes	10,000	µg/L	< 5.0	< 5.0	< 5.0
SVOCs					
Acenaphthene	2,000	µg/L	**8.9**	< 50	< 0.5
Acenaphthylene	10	µg/L	< 1.0	< 1.0	< 1.0
Anthracene	10	µg/L	**0.13**	**0.15**	< 0.05
Benzo(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1
Fluoranthene	1,000	µg/L	< 0.1	< 0.1	< 0.1
Fluorene	1,000	µg/L	**0.93**	**1.2**	< 0.1
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05
Naphthalene	20	µg/L	**200**	**210**	< 0.5
Phenanthrene	10	µg/L	**0.45**	**0.57**	< 0.05
Pyrene	1,000	µg/L	**0.056**	**0.068**	< 0.05
Inorganics					
Antimony	0.006	mg/L	< 0.02	< 0.02	< 0.02
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 0.05
Barium	2	mg/L	**0.771**	**0.783**	**0.258**
Beryllium	0.004	mg/L	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.01
Copper	1.3	mg/L	**0.0142**	< 0.01	< 0.01
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.01
Mercury	0.002	mg/L	< 0.0002	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.02	< 0.02	< 0.02
Vanadium	0.2	mg/L	< 0.01	< 0.01	< 0.01
Zinc	2	mg/L	< 0.02	< 0.02	< 0.02

Prepared by/date: RMB 10/14/15
Checked by/date: MBB 10/30/15

Notes:
N = Normal sample
DUP = Duplicate sample
RRS = Risk Reduction Standard
BOLD=exceeds laboratory detection limit
Analyte concentration exceeds the Type 1 RRS
Detection limit exceeds the Type 1 RRS
H = Sample was prepped or analyzed beyond hold time
-- = Not Analyzed

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

		Location ID	MW-213	MW-306BR	MW-307BR	MW-308BR	MW-309BR	MW-310BR	MW-313	MW-315	MW-315	MW-318	MW-319	MW-320	MW-321	MW-324	MW-325	MW-500BR	MW-503BR	MW-504BR	MW-507BR	MW-508BR	MW-508BR	MW-509BR	MW-510BR	MW-511BR	MW-512BR	MW-513BR
		Sample Date	7/28/2015	7/29/2015	7/31/2015	7/31/2015	7/28/2015	7/27/2015	7/29/2015	7/30/2015	7/30/2015	7/30/2015	7/28/2015	7/27/2015	7/29/2015	7/29/2015	7/28/2015	7/29/2015	7/29/2015	7/29/2015	7/30/2015	7/30/2015	7/30/2015	7/29/2015	7/29/2015	7/29/2015	7/30/2015	7/29/2015
		Sample Type	N	N	N	N	N	N	N	N	DUP-06	N	N	N	N	N	N	N	N	N	N	N	DUP-02	N	N	N	N	N
Field Parameters	**Type 1 RRS**	**Units**																										
Specific Conductivity	--	mS/cm	630	524	--	--	300	560	302	628	628	726	442	304	454	130	131	192	124.9	183.6	275.2	2045	2045	237.5	158	288	365	335
Dissolved Oxygen	--	mg/L	0.27	0.24	--	--	0.36	0.47	0.39	72.94	72.94	1.33	0.3	0.23	0.24	0.43	1.04	0.38	0.07	0.22	2.78	0.84	0.84	0.17	0.12	0.19	0.32	3.73
Oxidation-Reduction Potential	--	mV	240.8	-116.9	--	--	-140	436.5	-32.5	-93.1	-93.1	-59.2	-137.1	-37.7	269.1	242.5	-210.1	274.1	-184.7	-82.2	41.3	-58.7	-58.7	-109.8	-110.5	-154.3	17.6	-16.4
pH	--	pH units	6.34	7.65	--	--	8.23	6.61	9.01	6.61	6.61	6.65	7.69	7.25	7.68	9.47	7.94	8.98	8.06	10.05	9.27	11.75	11.75	10.39	7.47	11.28	9.2	10.76
Temperature	--	deg C	24.3	22.1	--	--	25.3	24.5	28.9	28.6	28.6	24.8	26.4	30.1	28.4	24.2	28.5	28.8	29.9	30.4	29.9	26.3	26.3	30	25.7	26.8	25	29.8
Turbidity	--	NTU	2.20	3.99	--	--	6.18	3.77	5.60	1.76	1.76	2.13	15.8	9.89	8.37	1.98	1.05	5.54	1.66	6.83	72.1	1.32	1.32	7.58	9.93	21.4	5.30	2.67
MNA																												
Carbon dioxide	--	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron, as Ferrous (Fe+2)	--	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as N	--	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxygen	--	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	--	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs																												
Acetone	4,000	µg/L	< 2500	< 50	< 5000	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 5000	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Benzene	5	µg/L	**8400**	< 5.0	**5300**	**880**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**19**	< 5.0	< 5.0	**2300**	< 5.0	< 5.0	**6200**	**790**	**210**	< 5.0	< 5.0	< 5.0	**140**	**250**	**200**	< 5.0	< 5.0
Carbon disulfide	4,000	µg/L	< 250	< 5.0	< 500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	700	µg/L	**1500**	< 5.0	< 500	**350**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 500	**65**	**22**	< 5.0	< 5.0	< 5.0	**12**	**64**	**10**	< 5.0	< 5.0
Methylene chloride	5	µg/L	< 250	< 5.0	< 500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 500	< 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	**490**	< 5.0	< 500	**180**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 500	**240**	**80**	< 5.0	< 5.0	< 5.0	**16**	**220**	**5.1**	< 5.0	< 5.0
Trichloroethene	5	µg/L	< 250	< 5.0	< 500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Xylenes	10,000	µg/L	**900**	< 5.0	< 500	**440**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**12**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 500	**76**	**25**	< 5.0	< 5.0	< 5.0	**6.7**	**120**	< 5.0	< 5.0	< 5.0
SVOCs																												
Acenaphthene	2,000	µg/L	**64**	**7.5**	**48**	**43**	< 0.5	< 0.5	< 0.5	**0.54**	**0.62**	< 50	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.0**	**6.5**	**1.9**	< 0.5	< 0.5
Acenaphthylene	10	µg/L	**95**	< 1.0	< 1.0	**43**	< 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	**2.1**	< 1.0	< 1.0	< 1.0	< 1.0	**2.8**	< 1.0	< 1.0	< 1.0
Anthracene	10	µg/L	**3.2**	**0.074**	**1.6**	**8.1**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.72**	< 0.05	< 0.05	**0.21**	< 0.05	< 0.05	**0.72**	< 0.05	**0.067**	< 0.05	< 0.05	< 0.05	**0.15**	**2.3**	**0.063**	< 0.05	< 0.05
Benzo(a)anthracene	0.1	µg/L	< 0.05	< 0.05	**0.11**	**5.2**	< 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	< 0.05	< 0.05	< 0.05	**1.4**	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 5.0	< 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	< 0.05	< 0.05	< 0.05	**1.2**	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.1	< 0.1	**6.2**	< 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	< 0.1	< 0.1	< 0.1	< 0.1	**0.92**	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.1	< 0.1	**5.2**	< 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	< 0.1	< 0.1	< 0.1	< 0.1	**0.51**	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	**2.9**	< 0.05	< 0.05	< 0.05	**0.055**	< 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	**0.4**	< 0.05	< 0.05	< 0.05
Chrysene	0.2	µg/L	< 0.05	< 0.05	**0.06**	**8.4**	< 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	< 0.05	< 0.05	< 0.05	**1.1**	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.1	**1.0**	< 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	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	1,000	µg/L	**0.73**	< 0.1	**0.87**	**10**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.28**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**0.23**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**3.5**	< 0.1	< 0.1	< 0.1
Fluorene	1,000	µg/L	**15**	**0.89**	**7.6**	**16**	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	**4.3**	< 0.1	< 0.1	**1.9**	< 0.1	< 0.1	**5.1**	**0.27**	**0.58**	< 0.1	< 0.1	< 0.1	**0.82**	**8.4**	**0.54**	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.05	**4.5**	< 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	< 0.05	< 0.05	< 0.05	**0.39**	< 0.05	< 0.05	**0.054**
Naphthalene	20	µg/L	**7100**	**30**	**350**	**1800**	< 0.5	< 0.5	< 0.5	**1.2**	**2**	**540**	< 0.5	< 0.5	**180**	**1.4**	**0.76**	**1200**	< 0.5	**36**	< 0.5	< 0.5	< 0.5	**3.8**	< 0.5	< 0.5	**0.69**	< 0.5
Phenanthrene	10	µg/L	**21**	**0.18**	**9.7**	**30**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**3.7**	< 0.05	< 0.05	**1.4**	< 0.05	< 0.05	**4.3**	**0.19**	**0.57**	< 0.05	< 0.05	< 0.05	**1.2**	**9.6**	**0.53**	< 0.05	< 0.05
Pyrene	1,000	µg/L	**0.75**	**0.052**	**1.1**	**15**	< 0.05	< 0.05	< 0.05	**0.08**	**0.081**	**0.34**	< 0.05	< 0.05	**0.068**	< 0.05	< 0.05	**0.29**	< 0.05	**0.084**	< 0.05	< 0.05	< 0.05	**0.13**	**4.8**	**0.084**	< 0.05	< 0.05
Inorganics																												
Antimony	0.006	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	< 0.02	< 0.02	< 0.02	< 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	< 0.05	< 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	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Barium	2	mg/L	**0.961**	**0.494**	**0.0707**	**0.618**	**0.462**	**0.479**	**0.213**	**0.445**	**0.437**	**0.566**	**0.777**	**0.267**	**0.28**	**0.0572**	**0.0691**	**0.357**	**0.0221**	**0.186**	**0.911**	**0.526**	**0.518**	**0.108**	**0.0545**	**0.0712**	**0.19**	**0.114**
Beryllium	0.004	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	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	**0.0072**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.0122**	**0.0237**	< 0.005	< 0.005	< 0.005	< 0.005	< 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	< 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	**0.0161**	**0.0163**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	**0.0435**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.0225**	< 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
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	< 0.01	< 0.01	< 0.01	< 0.01	< 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	< 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	< 0.01	< 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	< 0.0002	< 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
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	< 0.02	< 0.02	< 0.02	**0.0211**	< 0.02	< 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	< 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	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Thallium	0.002	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	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Vanadium	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	< 0.01	< 0.01	< 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	**0.0492**	**0.0331**	< 0.02	< 0.02	**0.0259**	< 0.02	**0.0636**	< 0.02	< 0.02	< 0.02	< 0.02	**0.127**	**0.375**	**0.0757**	**0.0987**	**0.0574**	< 0.02	< 0.02	**0.182**	**0.13**	**0.0567**	**0.0781**	< 0.02

Notes:
N = Normal sample
DUP = Duplicate sample
RRS = Risk Reduction Standard
BOLD=exceeds laboratory detection limit
Analyte concentration exceeds the Type 1 RRS
Detection limit exceeds the Type 1 RRS
H = Sample was prepped or analyzed beyond hold time
-- = Not Analyzed

Prepared by/date: RMB 10/14/15
Checked by/date: MBB 10/30/15

Table 3-7
Detections and RRS Exceedances in the Alluvium Wells
July 2015 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	4	4	0.0857 - 0.599	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	4	1	0.0276	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	1	1.2	0	
Phenanthrene	10	4	0	--	0	--
Pyrene	1000	4	0	--	0	--
Volatile Organic Compounds (µg/L)						
Acetone	4000	4	0	--	0	--
Benzene	5	4	0	--	0	--
Carbon Disulfide	4000	4	0	--	0	--
Ethylbenzene	700	4	0	--	0	--
Methylene Chloride	5	4	0	--	0	--
Toluene	1000	4	0	--	0	--
Trichloroethylene	5	4	0	--	0	--
Xylenes, total	10000	4	0	--	0	--

Notes:
ND - None Detected
µg/L - micrograms per liter
mg/L - milligrams per liter
RRS - Risk Reduction Standard

Prepared by/date: RJB 10/22/15
Checked by/date: MBB 10/30/15

Table 3-8
Detections and RRS Exceedances in the Galliard Formation Wells
July 2015 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	19	0	--	0	--
Arsenic	0.05	19	0	--	0	--
Barium	2	19	19	0.0349 - 0.551	0	--
Beryllium	0.004	19	0	--	0	--
Cadmium	0.005	19	0	0.0421	1	MW-401D
Chromium	0.1	19	0	--	0	--
Copper	1.3	19	1	0.0175	0	--
Cyanide	0.2	19	1	0.022	0	--
Lead	0.015	19	0	--	0	--
Mercury	0.002	19	0	--	0	--
Nickel	0.1	19	0	--	0	--
Selenium	0.05	19	0	--	0	--
Thallium	0.002	19	0	--	0	--
Vanadium	0.2	19	0	0.0176	0	--
Zinc	2	19	8	0.0323 - 0.113	0	--
Semi Volatile Organic Compounds (µg/L)						
Acenaphthene	2000	19	6	1.0 - 74	0	--
Acenaphthylene	10	19	2	1.4 - 5.0	0	--
Anthracene	10	19	7	0.073 - 3.7	0	--
Benzo(a)anthracene	0.1	19	0	0.05	0	--
Benzo(a)pyrene	0.2	19	1	0.05	0	--
Benzo(b)fluoranthene	0.2	19	1	0.11	0	--
Benzo(g,h,i)perylene	10	19	1	0.10	0	--
Benzo(k)fluoranthene	10	19	0	--	0	--
Chrysene	0.2	19	0	--	0	--
Dibenzo(a,h)anthracene	0.3	19	0	--	0	--
Fluoranthene	1000	19	5	0.16 - 0.38	0	--
Fluorene	1000	19	6	0.17 - 15	0	--
Indeno(1,2,3-cd)pyrene	0.4	19	1	0.07	0	--
Naphthalene	20	19	5	0.63 - 6600	3	MW-12, MW-505D, MW-601
Phenanthrene	10	19	6	0.06 - 12	1	MW-601
Pyrene	1000	19	9	0.056 - 0.45	0	--
Volatile Organic Compounds (µg/L)						
Acetone	4000	19	0	--	0	--
Benzene	5	19	3	22 - 20,000	3	MW-12, MW-304, MW-601
Carbon Disulfide	4000	19	0	--	0	--
Ethylbenzene	700	19	3	5.9 - 1,800	2	MW-12, MW-601
Methylene Chloride	5	19	0	--	0	--
Toluene	1000	19	2	690 - 1,200	1	MW-601
Trichloroethylene	5	19	2	11 - 14	2	MW-21, MW-401D
Xylenes, total	10000	19	3	7.9 - 3,500	0	--

Notes:
ND - None Detected
µg/L - micrograms per liter
mg/L - milligrams per liter
RRS - Risk Reduction Standard
DNAPL was observed in MW-205, MW-502D, MW-600 and MW-603; therefore, they were not sampled

Prepared by/date: RJB 10/22/15
Checked by/date: MBB 10/30/15

Table 3-9
Detections and RRS Exceedances in the Saprolite Wells
July 2015 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	6	0	--	0	--
Arsenic	0.05	6	0	--	0	--
Barium	2	6	6	0.0623 - 0.682	0	--
Beryllium	0.004	6	0	--	0	--
Cadmium	0.005	6	1	0.0076	1	MW-214
Chromium	0.1	6	0	--	0	--
Copper	1.3	6	0	--	0	--
Cyanide	0.2	6	1	0.018	0	--
Lead	0.015	6	0	--	0	--
Mercury	0.002	6	1	0.00042	0	--
Nickel	0.1	6	0	--	0	--
Selenium	0.05	6	0	--	0	--
Thallium	0.002	6	0	--	0	--
Vanadium	0.2	6	0	--	0	--
Zinc	2	6	1	0.0323	0	--
Semi Volatile Organic Compounds (ug/L)						
Acenaphthene	2000	6	1	14	0	--
Acenaphthylene	10	6	1	1	0	--
Anthracene	10	6	1	0.64	0	--
Benzo(a)anthracene	0.1	6	0	--	0	--
Benzo(a)pyrene	0.2	6	0	--	0	--
Benzo(b)fluoranthene	0.2	6	0	--	0	--
Benzo(g,h,i)perylene	10	6	0	--	0	--
Benzo(k)fluoranthene	10	6	0	--	0	--
Chrysene	0.2	6	0	--	0	--
Dibenzo(a,h)anthracene	0.3	6	0	--	0	--
Fluoranthene	1000	6	0	--	0	--
Fluorene	1000	6	1	6.2	0	--
Indeno(1,2,3-cd)pyrene	0.4	6	0	--	0	--
Naphthalene	20	6	2	0.56 - 250	1	MW-311
Phenanthrene	10	6	1	4.1	0	--
Pyrene	1000	6	0	--	0	--
Volatile Organic Compounds (ug/L)						
Acetone	4000	6	0	0	0	--
Benzene	5	6	1	480	1	MW-311
Carbon Disulfide	4000	6	0	0	0	--
Ethylbenzene	700	6	1	61	0	--
Methylene Chloride	5	6	0	0	0	--
Toluene	1000	6	0	0	0	--
Trichloroethylene	5	6	1	17	1	MW-401SAP
Xylenes, total	10000	6	0	0	0	--

Notes:
ND - None Detected
µg/L - micrograms per liter
mg/L - milligrams per liter
RRS - Risk Reduction Standard

Prepared by/date: RJB 10/22/15
Checked by/date: MBB 10/30/15

Table 3-10
Detections and RRS Exceedances in the Transition Zone Wells
July 2015 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	2	0	--	0	--
Arsenic	0.05	2	0	--	0	--
Barium	2	2	2	0.258 - 0.771	0	--
Beryllium	0.004	2	0	--	0	--
Cadmium	0.005	2	0	--	0	--
Chromium	0.1	2	0	--	0	--
Copper	1.3	2	1	0.0142	0	--
Cyanide	0.2	2	0	--	0	--
Lead	0.015	2	0	--	0	--
Mercury	0.002	2	0	--	0	--
Nickel	0.1	2	0	--	0	--
Selenium	0.05	2	0	--	0	--
Vanadium	0.2	2	0	--	0	--
Zinc	2	2	0	--	0	--
Thallium	0.002	2	0	--	0	--
Semi Volatile Organic Compounds (ug/L)						
Acenaphthene	2000	2	1	8.9	0	--
Acenaphthylene	10	2	0	--	0	--
Anthracene	10	2	1	0.13	0	--
Benzo(a)anthracene	0.1	2	0	--	0	--
Benzo(a)pyrene	0.2	2	0	--	0	--
Benzo(b)fluoranthene	0.2	2	0	--	0	--
Benzo(g,h,i)perylene	10	2	0	--	0	--
Benzo(k)fluoranthene	10	2	0	--	0	--
Chrysene	0.2	2	0	--	0	--
Dibenzo(a,h)anthracene	0.3	2	0	--	0	--
Fluoranthene	1000	2	0	--	0	--
Fluorene	1000	2	1	0.93	0	--
Indeno(1,2,3-cd)pyrene	0.4	2	0	--	0	--
Naphthalene	20	2	1	200	1	MW-306TZ
Phenanthrene	10	2	1	0.45	0	--
Pyrene	1000	2	1	0.056	0	--
Volatile Organic Compounds (ug/L)						
Acetone	4000	2	0	--	0	--
Benzene	5	2	0	--	0	--
Carbon Disulfide	4000	2	0	--	0	--
Ethylbenzene	700	2	0	--	0	--
Methylene Chloride	5	2	0	--	0	--
Toluene	1000	2	0	--	0	--
Trichloroethylene	5	2	0	--	0	--
Xylenes, total	10000	2	1	--	0	--

Notes:
ND - None Detected
µg/L - micrograms per liter
mg/L - milligrams per liter
RRS - Risk Reduction Standard

Prepared by/date: RJB 10/22/15
Checked by/date: MBB 10/30/15

Table 3-11
Detections and RRS Exceedances in the Bedrock Wells
July 2015 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	24	0	--	0	--
Arsenic	0.05	24	0	--	0	--
Barium	2	24	24	0.0221 - 0.961	0	--
Beryllium	0.004	24	0	--	0	--
Cadmium	0.005	24	3	0.0072 - 0.0237	3	MW-309BR, MW-325, MW-500BR
Chromium	0.1	24	1	0.0161	0	--
Copper	1.3	24	2	0.0225 - 0.0435	0	--
Cyanide	0.2	24	0	--	0	--
Lead	0.015	24	0	--	0	--
Mercury	0.002	24	0	--	0	--
Nickel	0.1	24	1	0.0211	0	--
Selenium	0.05	24	0	--	0	--
Thallium	0.002	24	0	--	0	--
Vanadium	0.2	24	0	--	0	--
Zinc	2	24	13	0.0259 - 0.375	0	--
Semi Volatile Organic Compounds (ug/L)						
Acenaphthene	2000	24	8	0.54 - 64	0	--
Acenaphthylene	10	24	4	2.1 - 95	2	MW-213, MW-308BR
Anthracene	10	24	11	0.063 - 8.1	0	--
Benzo(a)anthracene	0.1	24	3	0.11 - 5.2	3	MW-307BR, MW-308BR, MW-510BR
Benzo(a)pyrene	0.2	24	1	1.2	1	MW-510BR
Benzo(b)fluoranthene	0.2	24	2	0.92 - 6.2	2	MW-308BR, MW-510BR
Benzo(g,h,i)perylene	10	24	2	0.51 - 5.2	0	--
Benzo(k)fluoranthene	10	24	3	0.055 - 2.9	0	--
Chrysene	0.2	24	3	0.06 - 8.4	2	MW-308BR, MW-510BR
Dibenzo(a,h)anthracene	0.3	24	1	1	1	MW-308BR
Fluoranthene	1000	24	6	0.23 - 10	0	--
Fluorene	1000	24	12	0.27 - 16	0	--
Indeno(1,2,3-cd)pyrene	0.4	24	3	0.054 - 4.5	1	MW-308BR
Naphthalene	20	24	13	0.69 - 7,100	8	MW-213, MW-306BR, MW-307BR, MW-308BR, MW-318,
Phenanthrene	10	24	12	0.18 - 30	2	MW-213, -308BR
Pyrene	1000	24	12	0.052 - 15	0	--
Volatile Organic Compounds (ug/L)						
Acetone	4000	24	0	--	0	--
Benzene	5	24	11	19 - 8,400	11	MW-213, MW-307BR, MW-308BR, MW-318, MW-321, MW-500BR, MW-503BR, MW-504BR, MW-509BR, MW-510BR, MW-511BR
Carbon Disulfide	4000	24	0	--	0	--
Ethylbenzene	700	24	7	10 - 1,500	1	MW-213
Methylene Chloride	5	24	0	--	0	--
Toluene	1000	24	7	5.1 - 490	0	--
Trichloroethylene	5	24	0	--	0	--
Xylenes, total	10000	24	7	6.7 - 900	0	--

Notes:
ND - None Detected
µg/L - micrograms per liter
mg/L - milligrams per liter
RRS - Risk Reduction Standard

Prepared by/date: RJB 10/22/15
Checked by/date: MBB 10/30/15

Table 5-1
Treatment System Effluent Sample Results
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Parameter	Sample ID Sample Date Unit	Effluent Concentration Limit (ug/L)	Effluent 4/3/2015	Effluent 5/8/2015	Effluent 6/3/2015	Effluent 7/1/2015	Effluent 8/1/2015
Volatile Organic Compounds							
Benzene	µg/L	5530	< 5.0	< 5.0	< 5.0	--	--
Ethylbenzene	µg/L	NE	<5.0	< 5.0	< 5.0	--	--
Toluene	µg/L	NE	< 5.0	< 5.0	< 5.0	--	--
Xylenes, total	µg/L	NE	< 5.0	< 5.0	< 5.0	--	--
Semivolatile Organic Compounds							
Bis(2-ethylhexyl)phthalate	µg/L	--	--	--	< 10	--	--
Inorganic Compound Results							
Antimony	µg/L	NE	< 60	< 60	< 60	--	--
Barium	µg/L	NE	755	815	821	--	--
Chromium	µg/L	1740	< 10	< 10	< 10	--	--
Chromium (hexavalent compounds)	mg/L	1740	< 0.010	< 0.010	< 0.010	--	--
Copper	µg/L	380	< 25	203	< 25	--	--
Nickel	µg/L	400	< 20	< 20	< 20	--	--
pH	SU	6-11*	7.07	7.04	6.93	--	--

Notes:
mg/L - milligram per liter
µg/L - microgram per liter
SU - standard unit
NE - not established
* - acceptable pH range
No effluent samples collected in July and August 2015 while the system was shut down due to mechanical issues related to the groundwater pumps.

Prepared by/date: JMQ 10/28/15
Checked by/date: SAG 11/24/15

Table 5-2
Extraction Wells Operational Data
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Date	Extraction Well	Reason For Shutdown
January 30, 2015 - Present	MW-308BR	Pump not operational
Early June 2015 - Present	MW-307BR	Pump not operational. MW-307BR abandoned September 2015

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

Table 5-3
Mass Reduction Calculations in Bedrock Groundwater
April 1, 2015 - August 31, 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

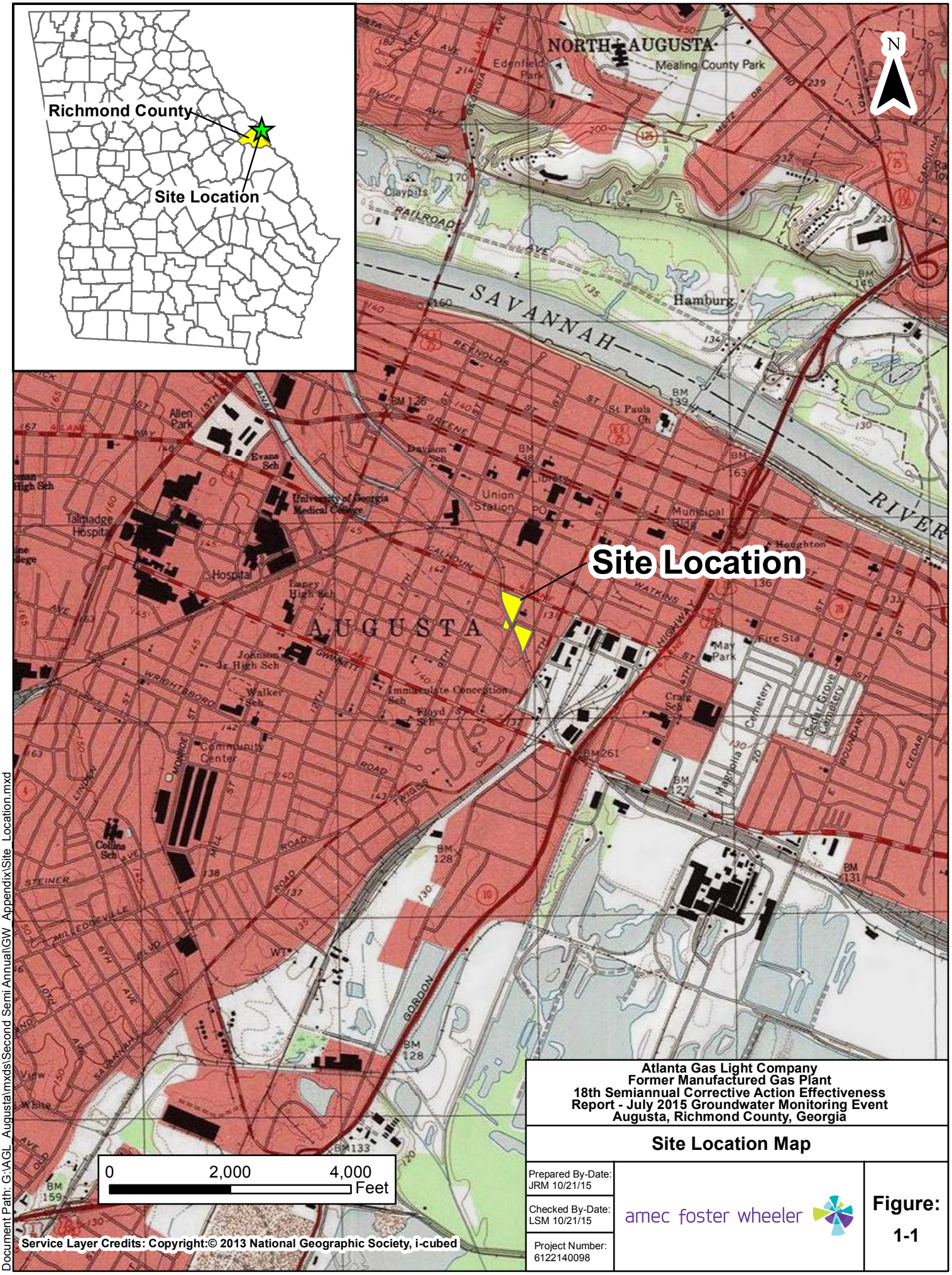
Extraction Well	Total Volume Extracted (gallons)	Total Volume Extracted (Liters)	Benzene Concentration (µg/L)	Benzene Mass (µg)	Total Benzene Mass Removed 4/1/15 - 8/31/15 (Kg)	Total Benzene Mass Removed from Previous Monitoring Periods (Kg)	Total Benzene Mass Removed from System to Date (Kg)
Benzene							
MW-307BR	85,530	323,731	5,300	1,715,774,565	1.72	509.50	511.21
MW-308BR	0	0	880	0	0.00	245.78	245.78
	85,530	**323,731**	--	**1,715,774,565**	**1.72**	**755.27**	**756.99**

Extraction Well	Total Volume Extracted (gallons)	Total Volume Extracted (Liters)	Naphthalene Concentration (µg/L)	Naphthalene Mass (µg)	Total Naphthalene Mass Removed 4/1/15 - 8/31/15 (Kg)	Total Naphthalene Mass Removed from Previous Monitoring Periods (Kg)	Total Naphthalene Mass Removed from System to Date (Kg)
Naphthalene							
MW-307BR	85,530	323,731	350	113,305,868	0.11	280.15	280.26
MW-308BR	0	0	1,800	0	0.00	185.94	185.94
	85,530	**323,731**	--	**113,305,868**	**0.11**	**466.09**	**466.20**

Notes:
Kg - kilogram
µg/L - micrograms per liter

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

FIGURES

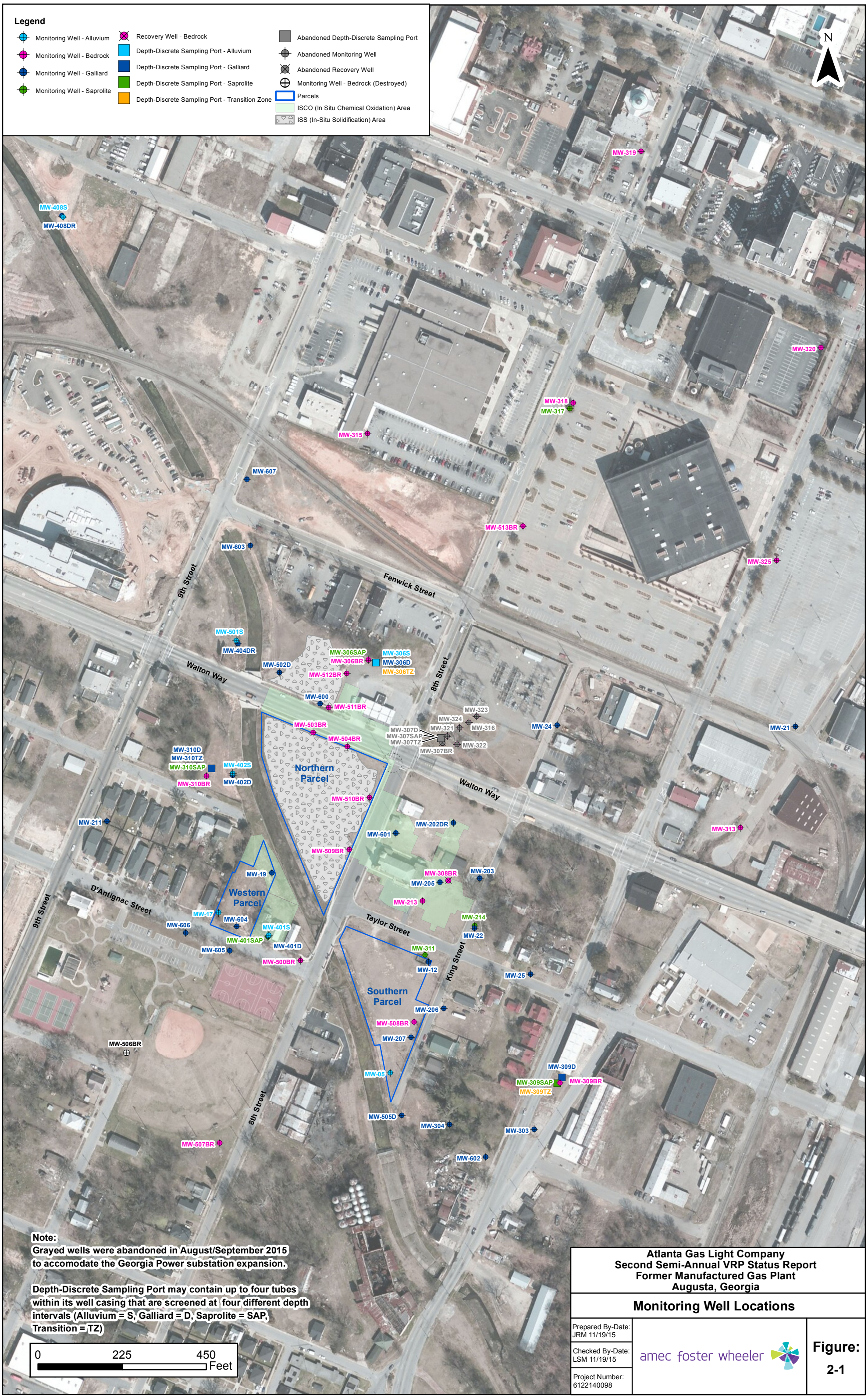


Atlanta Gas Light Company
Former Manufactured Gas Plant
18th Semiannual Corrective Action Effectiveness Report - July 2015 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

Site Location Map

Prepared By-Date: JRM 10/21/15	amec foster wheeler	Figure: 1-1
Checked By-Date: LSM 10/21/15		
Project Number: 6122140098		

Document Path: G:\AGL_Augusta\mxds\Second Semi Annual\GW_Appendix\Site_Location.mxd



Atlanta Gas Light Company
Second Semi-Annual VRP Status Report
Former Manufactured Gas Plant
Augusta, Georgia

Monitoring Well Locations

Prepared By-Date: JRM 11/19/15

Checked By-Date: LSM 11/19/15

Project Number: 6122140098

amec foster wheeler

Figure: 2-1

Document Path: G:\AGL_Augusta\mxds\Second Semi Annual\GW_Appendix\monitoring_well_locs_11_19_15.mxd

Atlanta Gas Light Company
Former Manufactured Gas Plant
18th Semiannual Corrective Action Effectiveness Report - July 2015 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

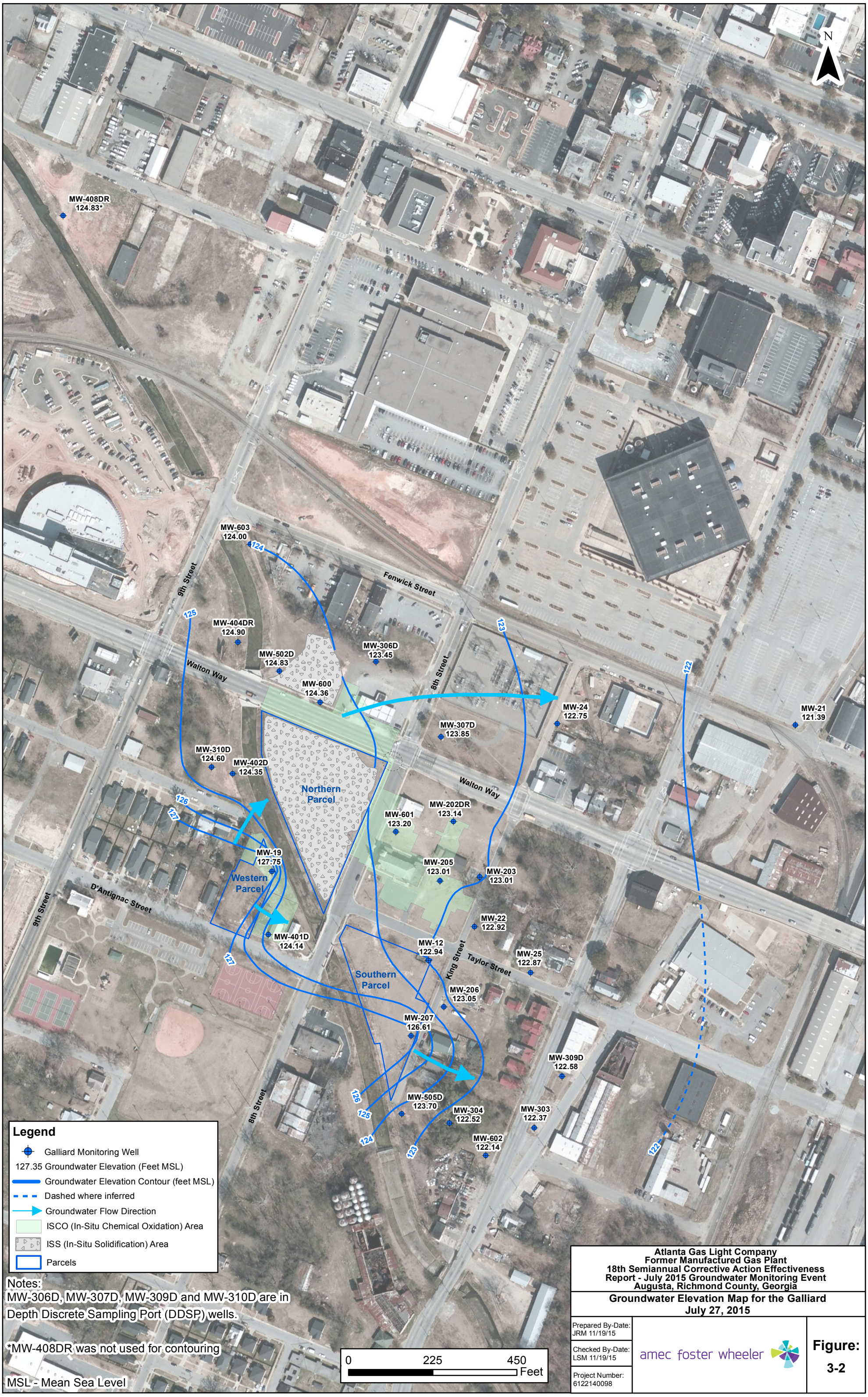
Groundwater Elevation Map for the Alluvium
July 27, 2015

Prepared By-Date: JRM 11/19/15
Checked By-Date: LSM 11/19/15
Project Number: 6122150235

amec foster wheeler

Figure: 3-1

Document Path: G:\AGL_Augusta\mxds\Second Semi Annual\GW_Appendix\GW_Alluvium.mxd



Atlanta Gas Light Company
Former Manufactured Gas Plant
18th Semiannual Corrective Action Effectiveness Report - July 2015 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

Groundwater Elevation Map for the Galliard
July 27, 2015

Prepared By-Date: JRM 11/19/15	amec foster wheeler	Figure: 3-2
Checked By-Date: LSM 11/19/15		
Project Number: 6122140098		

Document Path: G:\AGL_Augusta\mxds\Second Semi Annual\GW_Appendix\GW_Galliard.mxd

Atlanta Gas Light Company
Former Manufactured Gas Plant
18th Semiannual Corrective Action Effectiveness Report - July 2015 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

Groundwater Elevation Map for the Saprolite
July 27, 2015

Prepared By-Date: JRM 11/19/15
Checked By-Date: LSM 11/19/15
Project Number: 6122140098

amec foster wheeler

Figure: 3-3

Atlanta Gas Light Company
Former Manufactured Gas Plant
18th Semiannual Corrective Action Effectiveness Report - July 2015 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

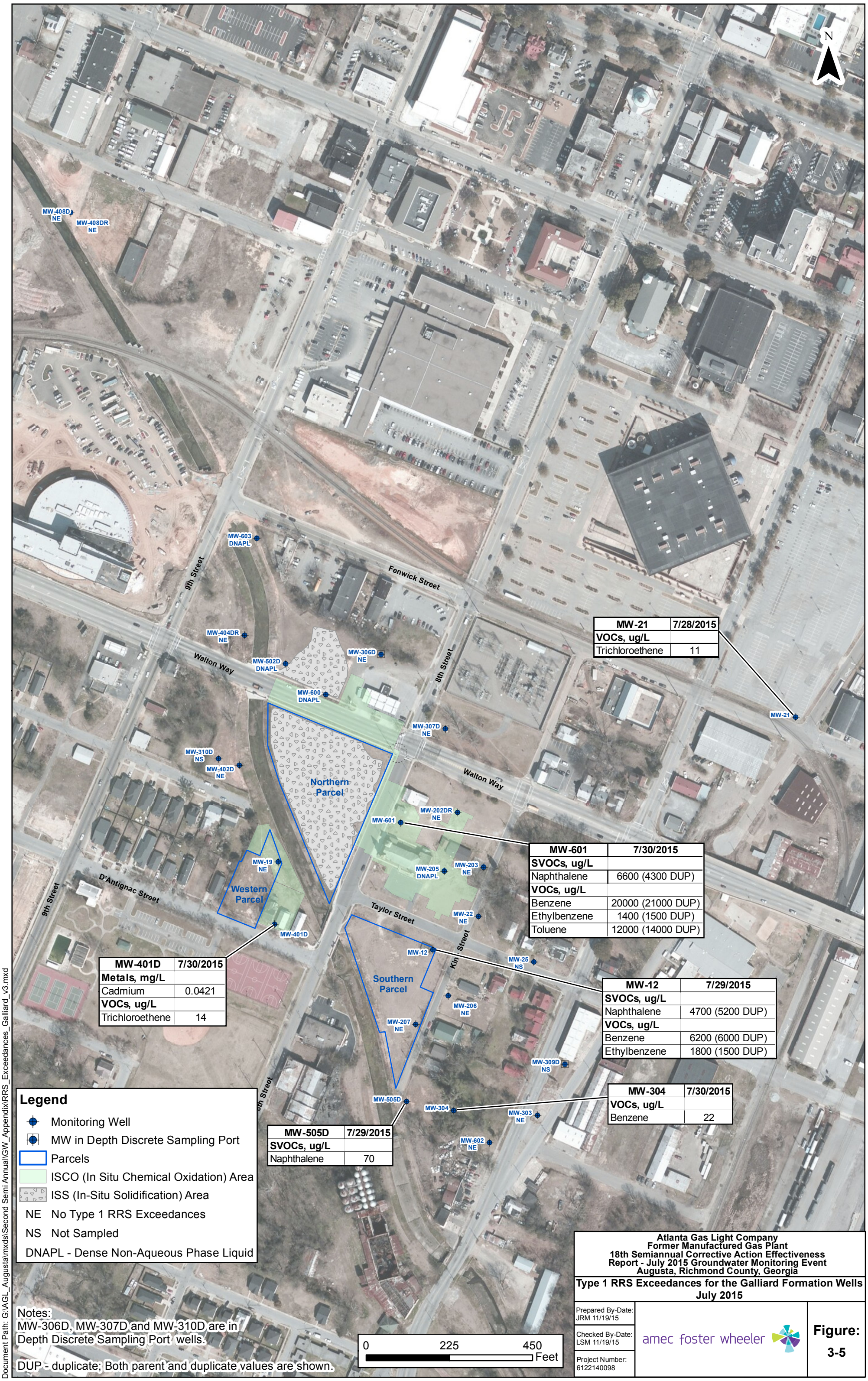
Groundwater Potential Map for the Bedrock and Transition Wells - July 27, 2015

Prepared By-Date: JRM 11/20/15
Checked By-Date: LSM 11/20/15
Project Number: 6122140098

amec foster wheeler

Figure: 3-4

Document Path: G:\AGL_Augusta\mxds\Second Semi Annual\GW_Appendix\GW_PotMap.mxd



MW-21	7/28/2015
VOCs, ug/L	
Trichloroethene	11

MW-601	7/30/2015
SVOCs, ug/L	
Naphthalene	6600 (4300 DUP)
VOCs, ug/L	
Benzene	20000 (21000 DUP)
Ethylbenzene	1400 (1500 DUP)
Toluene	12000 (14000 DUP)

MW-401D	7/30/2015
Metals, mg/L	
Cadmium	0.0421
VOCs, ug/L	
Trichloroethene	14

MW-12	7/29/2015
SVOCs, ug/L	
Naphthalene	4700 (5200 DUP)
VOCs, ug/L	
Benzene	6200 (6000 DUP)
Ethylbenzene	1800 (1500 DUP)

MW-304	7/30/2015
VOCs, ug/L	
Benzene	22

MW-505D	7/29/2015
SVOCs, ug/L	
Naphthalene	70

Notes:
MW-306D, MW-307D and MW-310D are in Depth Discrete Sampling Port wells.

DUP - duplicate; Both parent and duplicate values are shown.

Atlanta Gas Light Company
Former Manufactured Gas Plant
18th Semiannual Corrective Action Effectiveness Report - July 2015 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

Type 1 RRS Exceedances for the Galliard Formation Wells July 2015

Prepared By-Date: JRM 11/19/15
Checked By-Date: LSM 11/19/15
Project Number: 6122140098

amec foster wheeler

Figure: 3-5

Document Path: G:\AGL_Augusta\mxds\Second Semi Annual\GW_Appendix\RRS_Exceedances_Galliard_v3.mxd

Atlanta Gas Light Company
Former Manufactured Gas Plant
18th Semiannual Corrective Action Effectiveness Report - July 2015 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

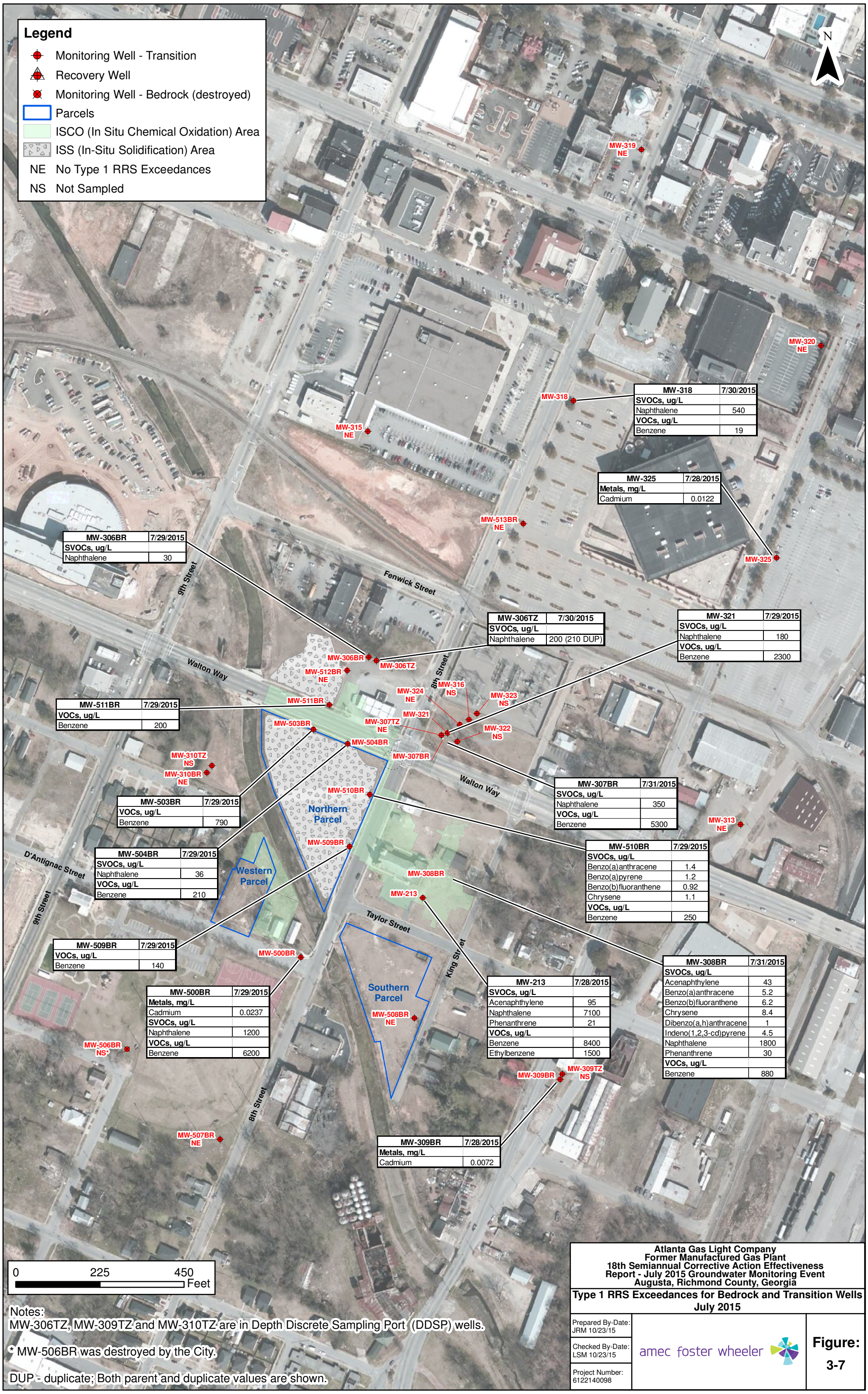
Type 1 RRS Exceedances for the Saprolite Wells
July 2015

Prepared By-Date: JRM 11/20/15
Checked By-Date: LSM 11/20/15
Project Number: 6122140098

amec foster wheeler

Figure: 3-6

Document Path: G:\AGL_Augusta\mxds\Second Semi Annual\GW_Appendix\RRS_Exceedances_Saprolite_v3.mxd



MW-318	7/30/2015
SVOCs, ug/L	
Naphthalene	540
VOCs, ug/L	
Benzene	19

MW-325	7/28/2015
Metals, mg/L	
Cadmium	0.0122

MW-306BR	7/29/2015
SVOCs, ug/L	
Naphthalene	30

MW-306TZ	7/30/2015
SVOCs, ug/L	
Naphthalene	200 (210 DUP)

MW-321	7/29/2015
SVOCs, ug/L	
Naphthalene	180
VOCs, ug/L	
Benzene	2300

MW-511BR	7/29/2015
VOCs, ug/L	
Benzene	200

MW-307BR	7/31/2015
SVOCs, ug/L	
Naphthalene	350
VOCs, ug/L	
Benzene	5300

MW-503BR	7/29/2015
VOCs, ug/L	
Benzene	790

MW-510BR	7/29/2015
SVOCs, ug/L	
Benzo(a)anthracene	1.4
Benzo(a)pyrene	1.2
Benzo(b)fluoranthene	0.92
Chrysene	1.1
VOCs, ug/L	
Benzene	250

MW-504BR	7/29/2015
SVOCs, ug/L	
Naphthalene	36
VOCs, ug/L	
Benzene	210

MW-509BR	7/29/2015
VOCs, ug/L	
Benzene	140

MW-308BR	7/31/2015
SVOCs, ug/L	
Acenaphthylene	43
Benzo(a)anthracene	5.2
Benzo(b)fluoranthene	6.2
Chrysene	8.4
Dibenzo(a,h)anthracene	1
Indeno(1,2,3-cd)pyrene	4.5
Naphthalene	1800
Phenanthrene	30
VOCs, ug/L	
Benzene	880

MW-500BR	7/29/2015
Metals, mg/L	
Cadmium	0.0237
SVOCs, ug/L	
Naphthalene	1200
VOCs, ug/L	
Benzene	6200

MW-213	7/28/2015
SVOCs, ug/L	
Acenaphthylene	95
Naphthalene	7100
Phenanthrene	21
VOCs, ug/L	
Benzene	8400
Ethylbenzene	1500

MW-309BR	7/28/2015
Metals, mg/L	
Cadmium	0.0072

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

* MW-506BR was destroyed by the City.

DUP - duplicate; Both parent and duplicate values are shown.

Atlanta Gas Light Company
Former Manufactured Gas Plant
18th Semiannual Corrective Action Effectiveness Report - July 2015 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

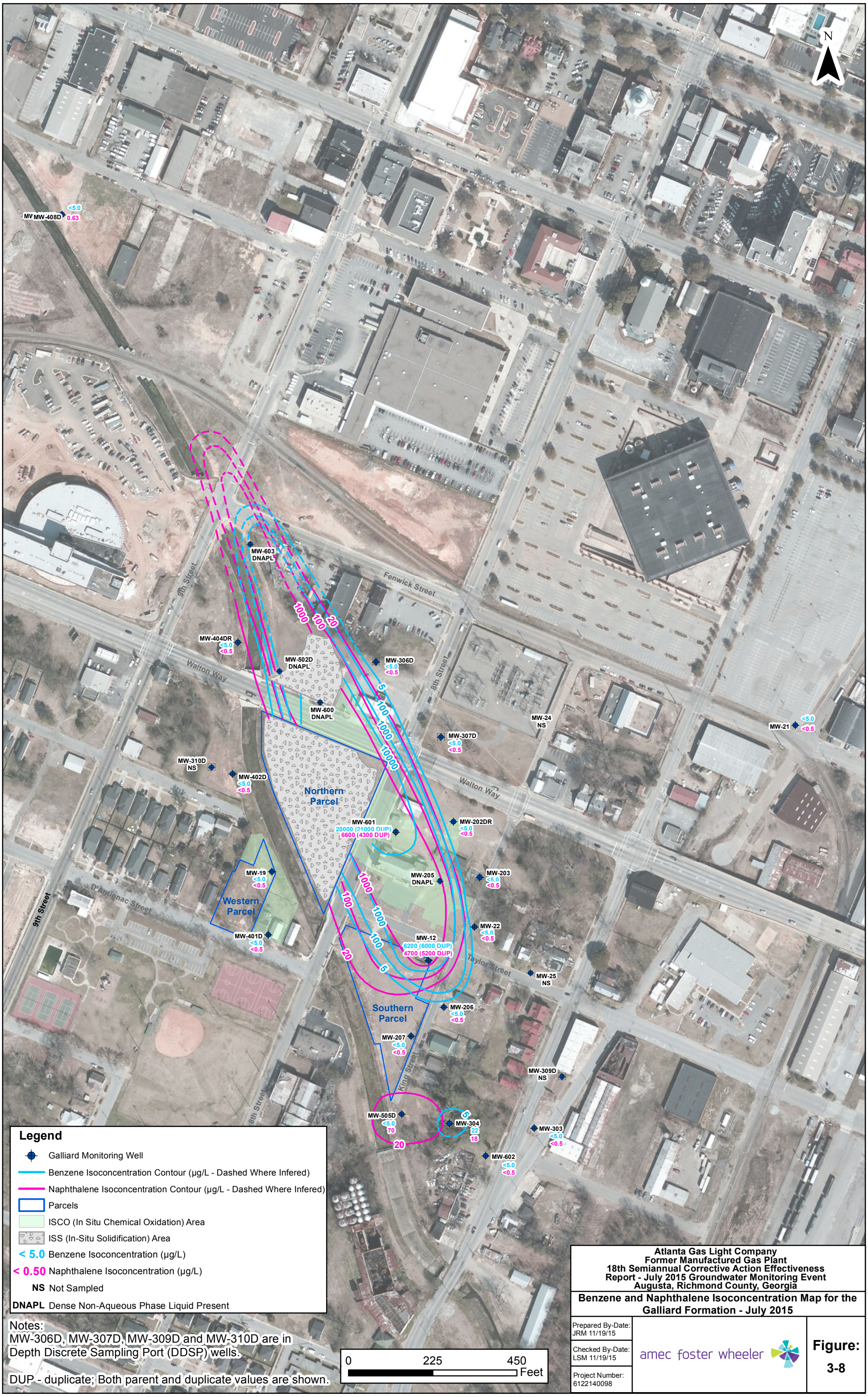
Type 1 RRS Exceedances for Bedrock and Transition Wells
July 2015

Prepared By-Date: JRM 10/23/15
Checked By-Date: LSM 10/23/15
Project Number: 6122140098

amec foster wheeler

Figure: 3-7

Document Path: G:\AGL_Augusta\mxds\Second Semi Annual\GW_Appendix\RRS_Exceedances_Bedrock_and_Transition_Zone_v3.mxd



Atlanta Gas Light Company
Former Manufactured Gas Plant
18th Semiannual Corrective Action Effectiveness Report - July 2015 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

Benzene and Naphthalene Isoconcentration Map for the Galliard Formation - July 2015

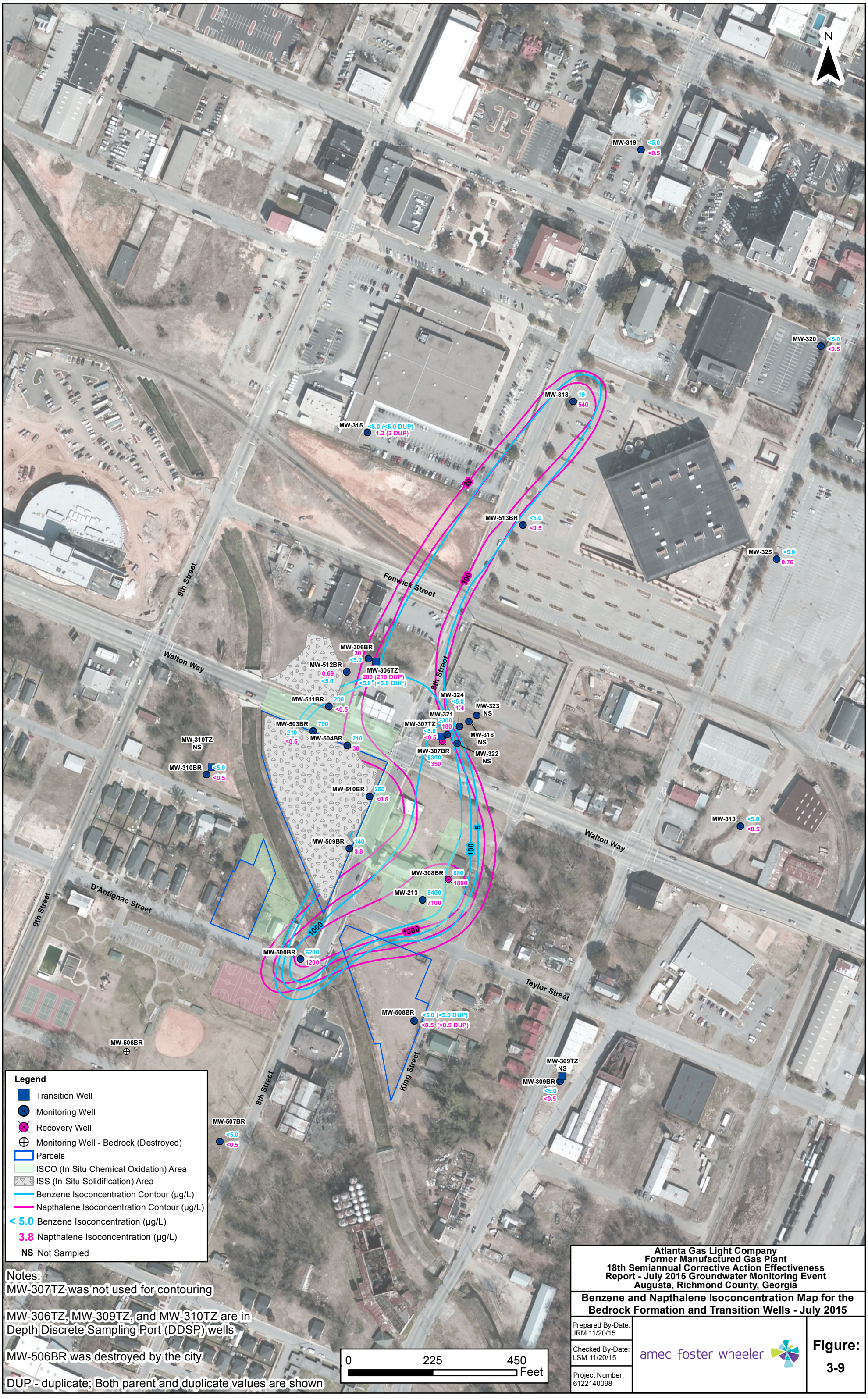
Prepared By-Date: JRM 11/19/15

Checked By-Date: LSM 11/19/15

Project Number: 6122140098

amec foster wheeler

Figure: 3-8



Atlanta Gas Light Company
Former Manufactured Gas Plant
18th Semiannual Corrective Action Effectiveness Report - July 2015 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

Benzene and Napthalene Isoconcentration Map for the Bedrock Formation and Transition Wells - July 2015

Prepared By-Date: JRM 11/20/15
Checked By-Date: LSM 11/20/15
Project Number: 6122140098

amec foster wheeler

Figure: 3-9

Document Path: G:\AGL_Augusta\mxds\Second Semi Annual\GW_Appendix\Benz_Napth_Bedrock_and_Transition_Wells.mxd

APPENDIX A

GROUNDWATER SAMPLING LOG SHEETS

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Site/Location: Augusta, GA

Project No.:

Sampling Date: 7/30/15

Sampler's Name: BM

Sample Collection Time: 9:25

Sample Purge Rate (L/min)[3]: 0.25 L/min

Sample ID: MW-11-30072015-01

QA/QC Collected? No

QA/QC I.D. —

Laboratory Analyses: COF

Well ID: MW-19

Total Depth (ft)[1]: 20'

Depth to Water (ft): 12.60

Well Diameter (in): 2"

Well Volume (gal) = 0.041d²h: 7.2 gal (27.5 L)

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

Well Condition: Good

Pump Type/Model: Peristaltic

Tubing Material: LDPE

Pump Intake Depth (ft): 21'

Start/Stop Purge Time: 8:30

Purge Rate (L/min)[2]: 0.1 L/min - 1.0 L/min - 0.25 L/min

Total Purge Volume (L): 18.75 L

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (Inorganics including cyanide) ☐ Bailer (only used if necessary) ☐ Bladder pump = pump discharge (all analytes)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
8:35	24.5	0.60	1.20	6.22	246.7	4.13	0.5 L	12.95	drawdown excessive, 3 well vol purge @ 1.0 L/min
8:40	21.5	0.60	0.73	6.26	247.6	21.2	~~1.0~~ 5.0 L	16.20	1st vol
8:45	21.6	0.59	1.42	6.27	248.4	17.9	10.0 L	16.76	2nd vol
8:50	22.4	0.59	1.98	6.28	248.0	8.80	15.0 L	17.24	3rd vol down to 0.25 L/min
8:55	23.0	0.56	1.66	6.19	248.5	5.28	16.25 L	16.02	
9:00	23.0	0.57	1.76	6.20	249.3	2.53	17.50 L	14.82	
9:05	23.0	0.58	1.85	6.22	252.1	3.07	18.75 L	14.15	Parameters Stable; sample
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Project No.:

Sampling Date: 7-29-15

Sampler's Name: BM

Site/Location: Augusta GA

Sample Collection Time: 17:45

Well ID: MW-12

Pump Type/Model: Peristaltic

Sample Purge Rate (L/min)[3]: 0.1 L/min

Total Depth (ft)[1]: 30

Tubing Material: LDPE

Sample ID: MW-12-29072015-01

Depth to Water (ft): 8.40'

Pump Intake Depth (ft): ~25'

QA/QC Collected? ~~No~~ Yes

Well Diameter (in): 2"

Start/Stop Purge Time: 17:05

QA/QC I.D. DUP-01-29072015-01

Purge Rate (L/min)[2]: 0.1 L/min

Laboratory Analyses: COC

Well Volume (gal) = $0.041d^2h$:

Total Purge Volume (L): 2.5L

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

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (inorganics including cyanide) ☐ Bailer (only used if necessary) ☐ Bladder pump = pump discharge (all analytes)

Well Condition: Good

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
17:10	27.1	0.243	0.71	6.14	271.5	0.58	0.5L	8.41	
17:15	27.3	0.240	0.44	6.06	269.3	0.74	1.0L	8.41	
17:20	26.9	0.240	0.39	6.04	267.8	1.54	1.5L	8.41	
17:25	27.5	0.239	0.34	6.03	266.9	3.92	2.0L	8.41	
17:30	26.7	0.239	0.31	6.01	265.1	3.43	2.5L	8.41	Parameters Stable; Sample
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling, to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: AGL

Project No.:

Sampling Date: 7-28-15

Site/Location: Augusta, GA

Sampler's Name: BM

Well ID: MW-21

Total Depth (ft)[1]: 28'

Depth to Water (ft): 7.26

Well Diameter (in): 2"

Well Volume (gal) = 0.041d²h:

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

Well Condition: Good

Pump Type/Model: Peristaltic

Tubing Material: LDPE

Pump Intake Depth (ft): ~25'

Start/Stop Purge Time: 15:00/1530

Purge Rate (L/min)[2]: 0.1 L/min

Total Purge Volume (L): 3.0L

Sample Collection Time: 1545

Sample Purge Rate (L/min)[3]: 0.1 L/min

Sample ID: MW-21-20150728-01

QA/QC Collected? No

QA/QC I.D. —

Laboratory Analyses: COT

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
15:05	31.0	0.330	1.28	6.39	274.7	2.55	0.5L	7.28	
15:10	30.2	0.372	0.33	6.40	273.9	4.72	1.0L	7.28	
15:15	32.0	0.392	0.29	6.32	274.1	2.69	1.5L	7.29	
15:20	31.6	0.70	0.25	6.26	274.1	2.70	2.0L	7.29	
15:25	31.9	0.71	0.26	6.26	273.5	2.56	2.5L	7.29	
15:30	31.9	0.72	0.23	6.27	272.3	1.76	3.0L	7.29	Parameters Stable; Sample
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling, to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Project No.:

Sampling Date: 7-28-15

Sampler's Name: BM

Site/Location: Augusta GA

Well ID: MW-22

Total Depth (ft)[1]: 22'

Depth to Water (ft): 6.67

Well Diameter (in): 2"

Well Volume (gal) = $0.041d^2h$:

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

Well Condition: Good

Pump Type/Model: Peristaltic

Tubing Material: LDPE

Pump Intake Depth (ft): ~20'

Start/Stop Purge Time: 8:30

Purge Rate (L/min)[2]: 0.1 L/min

Total Purge Volume (L): 2.5L

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Sample Collection Time: 9:05

Sample Purge Rate (L/min)[3]: 0.1 L/min

Sample ID: MW-22-20150728-01

QA/QC Collected? No

QA/QC I.D. --

Laboratory Analyses: COI

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
8:35	24.7	0.239	1.41	6.28	292.6	8.43	0.5L	6.80	
8:40	24.9	0.238	0.78	6.30	293.0	6.20	1.0L	6.80	
8:45	25.1	0.233	0.76	6.31	293.2	5.06	1.5L	6.80	
8:50	25.0	0.233	0.63	6.31	293.3	3.15	2.0L	6.79	
8:55	25.1	0.233	0.60	6.32	293.2	3.19	2.5L	6.79	Parameters Stable; Sample
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[6]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Project No.:

Sampling Date: 7/28/15

Sampler's Name: BM

Site/Location: Augusta, GA

Well ID: MW-202DR

Total Depth (ft)[1]: 29'

Depth to Water (ft): 8.50

Well Diameter (in): 2"

Well Volume (gal) = 0.041d²h:

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

Well Condition: Good

Pump Type/Model: Peristaltic

Tubing Material: LDPE

Pump Intake Depth (ft): ~27'

Start/Stop Purge Time: 11:30 - 11:55

Purge Rate (L/min)[2]: 0.1 L/min

Total Purge Volume (L): 2.5L

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Sample Collection Time: 12:10

Sample Purge Rate (L/min)[3]: 0.1 L/min

Sample ID: MW-202D-20150728-01

QA/QC Collected? No

QA/QC I.D. —

Laboratory Analyses: CoI

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
11:35	29.6	0.58	1.60	6.31	289.5	2.36	0.5L	8.51	
11:40	30.1	0.58	1.10	6.31	289.8	1.98	1.0L	8.50	
11:45	30.1	0.59	0.34	6.31	288.6	1.93	1.5L	8.50	
11:50	30.4	0.58	0.30	6.31	287.8	3.05	2.0L	8.50	
11:55	30.7	0.58	0.28	6.31	285.3	1.54	2.5L	8.50	Parameters stable; sample
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATE SAMPLING LOG SHEET

ERM

Client: ERM

Site/Location: AGI - Augusta

Project No.:

Sampling Date: 7-29-15

Sampler's Name: A. NEAL

Well ID: MW-203

Total Depth (ft)[1]: 26

Depth to Water (ft): 7.72

Well Diameter (in): 2

Well Volume (gal) = 0.041d²h: 2.98

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

Well Condition: Good

Pump Type/Model: Peristaltic

Tubing Material: Poly / Silicon

Pump Intake Depth (ft): 23

Start/Stop Purge Time: 845 / 910

Purge Rate (L/min)[2]: 0.1

Total Purge Volume (L): 2.5

Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ Bladder pump = pump discharge (all analytes)

Sample Collection Time: 915

Sample Purge Rate (L/min)[3]: 0.1

Sample ID: MW-203-20150728

QA/QC Collected? No

QA/QC I.D. NA

Laboratory Analyses: VOCs, SVOCs, Total Metals + Hg, Cyanide

☐ pump head discharge (inorganics including cyanide)

☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
850	24.8	468.0	0.86	6.33	97.7	7.62	0.5	7.73	
855	24.5	471.6	0.36	6.30	84.4	12.2	1.0	7.74	
900	24.5	470.6	0.30	6.30	83.4	9.73	1.5	7.74	
905	24.4	470.2	0.24	6.30	81.6	6.69	2.0	7.73	
910	24.4	469.1	0.22	6.30	82.0	4.23	2.5	7.73	
915 - SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: AGL
Site/Location: Augusta, GA
Project No.: 0230712
Sampling Date: 7/30/15
Sampler's Name: BM

Well ID: MW-206
Total Depth (ft)[1]: 28'
Depth to Water (ft): 7.20
Well Diameter (in): 2"
Well Volume (gal) = 0.041d²h:
d = well diameter (inches) h = length of water column (feet)
Well Condition: Good

Pump Type/Model: Peristaltic
Tubing Material: LDPE
Pump Intake Depth (ft): 22.5'
Start/Stop Purge Time: 10:45
Purge Rate (L/min)[2]: 0.1 L/min
Total Purge Volume (L): 10.75 L

Sample Collection Time: ~~12:30~~ 12:45
Sample Purge Rate (L/min)[3]: 0.1 L/min
Sample ID: MW-206-30072015-01
QA/QC Collected? No
QA/QC I.D. –
Laboratory Analyses: COI

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
10:50	27.2	0.77	4.22	8.11	273.2	63.1	0.5L	7.40	
10:55	27.2	0.77	3.72	8.00	272.1	62.7	1.0L	7.40	
11:00	30.4	0.77	3.93	7.88	270.0	50.9	1.5L	7.40	
11:05	27.1	0.73	3.20	7.49	266.7	60.5	2.0L	7.40	
11:10	27.4	0.73	2.70	7.38	265.3	50.9	2.5L	7.40	
11:15	27.5	0.72	2.63	7.29	263.1	43.1	3.0L	7.40	
11:20	27.3	0.70	2.33	7.19	262.2	39.1	3.5L	7.40	
11:25	27.7	0.69	2.35	7.09	261.2	30.7	4.0L	7.40	
11:30	27.6	0.68	2.13	7.04	258.5	29.2	4.5L	7.40	
11:35	28.0	0.68	1.94	6.98	256.5	22.0	5.0L	7.40	
11:40	27.9	0.68	1.79	6.97	256.1	21.1	5.5L	7.40	
11:45	28.4	0.67	1.87	6.96	253.7	20.0	6.0L	7.40	
11:50	28.3	0.67	1.78	6.95	249.0	17.2	6.5L	7.40	
11:55	26.9	0.66	1.92	6.92	251.7	17.8	7.0L	7.40	
12:00	27.2	0.68	1.91	6.96	249.8	18.6	7.5L	7.40	~~Not feasible to reduce flow rate~~ reduce flow
12:05	30.9	0.67	1.79	6.87	247.5	15.6	8.0L	7.38	rate to 0.05 L/min
12:10	32.7	0.68	1.67	6.89	245.4	13.9	8.25L	7.35	increase rate back to 0.1 L/min
12:15	28.3	0.69	1.77	6.93	244.5	18.8	8.75L	7.35	
12:20	28.9	~~2.00~~ 0.69	1.98	6.95	242.4	20.5	9.25L	7.35	Spec. Cond. = 0.69
12:25	28.8	0.67	1.76	6.91	242.5	17.9	9.75L	7.35	
12:30	28.7	0.68	2.13	6.92	242.5	17.2	10.25L	7.35	
12:35	28.0	0.68	1.93	6.92	242.4	17.1	10.75L	7.35	Parameters Stable, Sample
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL - Augusta

Project No.:

Sampling Date: 7-27-15

Sampler's Name: A.NEAL

Site/Location:

Sample Collection Time: 1555

Well ID: MW-207

Pump Type/Model: Peristaltic

Sample Purge Rate (L/min)[3]: 0.25

Total Depth (ft)[1]: 24.6

Tubing Material: Poly / Silicon

Sample ID: MW-207

Depth to Water (ft): 6.03

Pump Intake Depth (ft): ~18'

QA/QC Collected? MS/MSD

Well Diameter (in): 2

Start/Stop Purge Time: 1445

QA/QC I.D. MS-MW-207-20150727-01 / MSD-MW-207-20150727-01

Purge Rate (L/min)[2]: 0.1

Laboratory Analyses: VOCs, SVOCs, Total Metals, Hg, Cyanide

Well Volume (gal) = 0.041d²h:

Total Purge Volume (L): 4

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

Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (inorganics including cyanide) ☐ Bailer (only used if necessary) ☐ Bladder pump = pump discharge (all analytes)

Well Condition: Good

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1450	32.5	525	0.44	6.20	-40.8	22.7	0.5	6.03	
1455	32.7	523	0.42	6.20	-41.1	23.6	0.5	6.17	
1500	32.9	524	0.42	6.19	-41.8	21.6	0.5	6.34	Reduced flow
1505	32.9	523	0.41	6.20	-43.7	21.1	0.25	6.44	
1510	33.1	523	0.41	6.20	-43.4	19.7	0.25	6.38	
1515	33.4	521	0.42	6.20	-44.4	28.2	0.25	6.39	
1520	34.0	520	0.44	6.21	-46.2	34.7	0.25	6.39	
1525	34.5	516	0.45	6.21	-49.3	21.2	0.25	6.38	
1530	35.6	512	0.45	6.23	-52.2	20.9	0.25	6.38	
1535	36.3	509	0.44	6.24	-54.8	16.4	0.25	6.39	
1540	36.6	507	0.44	6.25	-57.5	12.1	0.25	6.40	
1545	37.3	506	0.42	6.26	-60.4	13.0	0.25	6.42	
1550	37.4	504	0.40	6.25	-61.4	12.4	0.25	6.43	
1555 — SAMPLE TIME									*MS/MSD collected here (see above for TDS)
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: ACL

Site/Location: Augusta, GA

Project No.:

Sampling Date: 7-28-15

Sampler's Name: BM

Well ID: MW-21B

Total Depth (ft)[1]: 62.5'

Depth to Water (ft): 8.40'

Well Diameter (in): 2"

Well Volume (gal) = 0.041d²h: 8.8 gal (35 L)

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

Well Condition: Good

Pump Type/Model: Peristaltic

Tubing Material: LDPE

Pump Intake Depth (ft): ~ 60'

Start/Stop Purge Time: 17:00

Purge Rate (L/min)[2]: 0.1 L/min - 1.0 L/min

Total Purge Volume (L): 107 L

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ Bladder pump = pump discharge (all analytes)

Sample Collection Time: 19:15

Sample Purge Rate (L/min)[3]: ~~0.1 L/min~~ 0.25 L/min

Sample ID: MW-21B-20072015-01

QA/QC Collected? No

QA/QC I.D. —

Laboratory Analyses: COC

☑ pump head discharge (inorganics including cyanide)

☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
17:05	22.4	0.65	0.36	6.28	267.1	9.73	0.5L	9.55	drawdown excessive, switching to 3 vol purge
17:40	23.4	0.65	0.41	6.36	260.8	4.29	35L	26.70	1.0 L/min 1x vol
18:25	~~23.1~~	0.64	1.30	6.32	250.6	2.37	70L	27.50	2x vol
19:00	~~23.7~~	0.63	1.00	6.33	242.8	2.55	105L	27.76	3x vol Temp: 24.4 reduce rate to 0.25 L/min
19:05	24.4	0.63	0.32	6.34	241.6	2.19	106L	27.49	
19:10	24.3	0.63	0.27	6.34	240.8	2.20	107L	27.20	Parameters Stable, Sample
Stabilizing Criteria[4]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[6]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG

ERM

Client: AGL

Site/Location: Augusta GA

Project No.:

Sampling Date: 7/28/15

Sampler's Name: BM

Well ID: MW-214

Total Depth (ft)[1]: 56'

Depth to Water (ft): 7.06'

Well Diameter (in): 2"

Well Volume (gal) = $0.041d^2h$:

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

Well Condition: Good

Pump Type/Model: Peristaltic

Tubing Material: LDPE

Pump Intake Depth (ft): 54'

Start/Stop Purge Time: 9:55

Purge Rate (L/min)[2]: 0.1 L/min

Total Purge Volume (L):

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ Bladder pump = pump discharge (all analytes)

Sample Collection Time: 10:30

Sample Purge Rate (L/min)[3]: 0.1 L/min

Sample ID: MW-214-20150728-01

QA/QC Collected? No

QA/QC I.D. —

Laboratory Analyses: GOI

☑ pump head discharge (inorganics including cyanide)

☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
10:00	27.3	0.285	0.74	6.79	285.6	6.40	0.5L	7.25	
10:05	27.2	0.291	0.63	6.83	285.4	6.27	1.0L	7.24	
10:10	27.0	0.297	0.53	6.84	279.6	5.73	1.5L	7.24	
10:15	27.5	0.298	0.51	6.84	278.2	8.01	2.0L	7.24	Parameters Stable; Sample
10:20	27.6	0.300	0.45	6.85	277.8	5.74	2.5L	7.24	
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Site/Location: Augusta

Project No.:

Sampling Date: 7/29/15

Sampler's Name: B. Fisher

Well ID: MW-203

Total Depth (ft)[1]: 30.5

Depth to Water (ft): 7.00

Well Diameter (in): 2

Well Volume (gal) = 0.041d²h: 3.85 gal/14.6 L

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

Well Condition: Good

Pump Type/Model: Peristaltic

Tubing Material: LDPE

Pump Intake Depth (ft): 28.0

Start/Stop Purge Time: 0840

Purge Rate (L/min)[2]: 0.05

Total Purge Volume (L): 2.0

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ Bladder pump = pump discharge (all analytes)

Sample Collection Time: 0930

Sample Purge Rate (L/min)[3]: 0.1

Sample ID: MW-203-20150728-01

QA/QC Collected? —

QA/QC I.D. —

Laboratory Analyses: ☑ pump head discharge (Inorganics including cyanide) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0845	27.9	0.502	0.55	6.26	82	18.4	0.25	7.02	
0850	27.4	0.475	0.40	6.25	43	35.8	0.50	7.02	
0855	27.0	0.472	0.35	6.25	27	38.2	0.75	7.01	
0900	27.3	0.471	0.40	6.24	4.3	37.3	1.00	7.01	
0905	26.7	0.471	0.32	6.25	3.5	25.5	1.25	7.01	
0910	26.7	0.472	0.29	6.25	3.6	21.3	1.50	7.01	
0915	27.0	0.470	0.32	6.25	5.8	12.6	1.75	7.01	
0920	26.9	0.471	0.34	6.25	5.4	9.76	2.00	7.01	
	Parameters Stable, Well ok to Sample								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Hold parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Site/Location: Augusta, GA

Project No.: 0280910

Sampling Date: 7/30/15

Sampler's Name: BM

Well ID: MW-304

Total Depth (ft)[1]: 36'

Depth to Water (ft): 9.01'

Well Diameter (in): 2"

Well Volume (gal) = $0.041d^2h$:

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

Well Condition: Good

Pump Type/Model: Peristaltic

Tubing Material: LDPE

Pump Intake Depth (ft): ~34'

Start/Stop Purge Time: 1448

Purge Rate (L/min)[2]: 0.1 L/min

Total Purge Volume (L): 8.0 L

Sample Collection Time: 1615

Sample Purge Rate (L/min)[3]: 0.1 L/min

Sample ID: MW-304-30072015-01

QA/QC Collected? No

QA/QC I.D. –

Laboratory Analyses: COI

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1445	28.7	0.472	2.05	6.23	265.8	169	0.5L	9.11	
1450	24.9	0.479	0.62	6.24	264.4	82.9	1.0L	9.14	
1455	25.0	0.468	0.50	6.25	261.5	8.20	1.5L	9.14	
1500	24.7	0.464	0.47	6.23	259.6	20.4	2.0L	9.16	
1505	25.0	0.486	0.42	6.12	257.2	50.4	2.5L	9.14	
1510	24.9	0.56	0.40	6.05	253.3	60.4	3.0L	9.14	
1515	24.3	0.58	0.37	6.04	249.3	29.3	3.5L	9.14	
1520	24.3	0.58	0.42	6.03	247.5	25.0	4.0L	9.14	
1525	24.8	0.58	0.33	6.03	243.3	16.9	4.5L	9.14	
1530	24.8	0.58	0.32	6.02	241.4	15.5	5.0L	9.15	
1535	24.5	0.58	0.31	6.02	240.2	13.9	5.5L	9.15	
1540	24.5	0.58	0.30	6.02	238.6	12.9	6.0L	9.15	
1545	24.3	0.58	0.36	6.02	239.8	12.4	6.5L	9.15	
1550	24.7	0.58	0.34	6.02	240.6	9.94	7.0L	9.15	
1555	25.9	0.59	0.34	6.03	240.8	8.26	7.5L	9.15	Parameters Stable; Sample
1600	26.0	0.59	0.32	6.03	240.9	8.18	8.0L	9.15	
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Project No.:

Sampling Date: 7/30/15

Sampler's Name: B. Fisher

Site/Location: Augusta

Sample Collection Time: 1820

Well ID: MW-306TZ

Pump Type/Model: Peristaltic

Sample Purge Rate (L/min)[3]: 0.1

Total Depth (ft)[1]: 59.5

Tubing Material: LDPE

Sample ID: MW-306TZ-20150730-01

Depth to Water (ft): 8.54

Pump Intake Depth (ft): 59.0

QA/QC Collected? YES

Well Diameter (in): 0.5

Start/Stop Purge Time: 1705

QA/QC I.D. DUP-03-20150730-01

Well Volume (gal) = 0.041d²h: 1.0 (gal) (3.78 L)

Purge Rate (L/min)[2]: ~~0.25~~ 0.35 / 0.05

Laboratory Analyses:

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

Total Purge Volume (L): 12.50

☑ pump head discharge (Inorganics including cyanide)

Well Condition: Good

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ Bailer (only used if necessary)

☐ Bladder pump = pump discharge (all analytes)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1721	22.9	0.764	0.24	7.18	-78.3	5.92	4.00		1vol
1736	23.2	0.760	0.17	7.11	-72.5	5.12	7.75		2vol
1751	23.5	0.756	0.19	7.04	-61.2	0.76	11.5		3vol
1756	24.1	0.756	0.23	7.05	-64.9	3.09	11.75		Flow Rate Reduced to 0.05 L/min
1801	25.6	0.757	0.25	7.05	-67.0	1.21	12.00		
1806	25.4	0.759	0.22	7.06	-67.5	0.88	12.25		
1811	25.3	0.758	0.22	7.06	-66.6	1.79	12.50		
	Parameters	Stable.	OK to	sample	well				
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: FRM
Site/Location: AGL-Augusta
Project No.:
Sampling Date: 7-28-15
Sampler's Name: A. DEAL

Well ID: MW-306D
Total Depth (ft)[1]: 25.5
Depth to Water (ft): 8.47
Well Diameter (in):
Well Volume (gal) = 0.041d²h:
d = well diameter (inches) h = length of water column (feet)
Well Condition: Good

Pump Type/Model: Peristaltic
Tubing Material: Poly/Silicon
Pump Intake Depth (ft): ~25
Start/Stop Purge Time: 1000/1030
Purge Rate (L/min)[2]: 0.1
Total Purge Volume (L):
Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Sample Collection Time: 1030
Sample Purge Rate (L/min)[3]: 0.1
Sample ID: MW-306D-20150728-01
QA/QC Collected? NO
QA/QC I.D. NA
Laboratory Analyses: SVOCs, VOCs, Total Metals + Hg, Cyanide

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1005	26.3	720	2.14	6.32	21.3	51.2	0.5		
1010	26.1	715	1.84	6.28	22.7	32.9	0.5		
1015	25.6	698	0.63	6.16	19.9	6.80	0.5		
1020	25.5	696	0.50	6.15	17.7	3.72	0.5		
1025	26.0	693	0.41	6.14	16.0	2.19	0.5		
1030	- SAMPLE TIME								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: ERM
Site/Location: AGL-Augusta
Project No.:
Sampling Date: 7-28-15
Sampler's Name: A.N/K

Well ID: MW-306SAP
Total Depth (ft)[1]: 31.5'
Depth to Water (ft): 8.45'
Well Diameter (in):
Well Volume (gal) = 0.041d²h:
d = well diameter (inches) h = length of water column (feet)
Well Condition: Good

Pump Type/Model: Peristaltic
Tubing Material: Poly/Silicon
Pump Intake Depth (ft): 31'
Start/Stop Purge Time: 1800-1845/815-900 (7-28-15)
Purge Rate (L/min)[2]: ~~0.25~~ 0.1
Total Purge Volume (L):
Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Sample Collection Time: 905
Sample Purge Rate (L/min)[3]: 0.1
Sample ID: MW-306SAP-20150728-01
QA/QC Collected? NO
QA/QC I.D. NA
Laboratory Analyses: VOCs, SVOCs, Total Metals + Hg, Cyanide

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1810	27.6	1492	2.09	6.26	~~[illegible]~~ 36	~~[illegible]~~	~0.5		NTUs = 42.4
1815	28.0	1485	1.95	6.22	~~[illegible]~~ 32	35.1	~0.5		
1820	29.2	1486	1.60	6.23	-8.5	28.8	0.5		
1825	30.0	1496	1.24	6.23	-16.7	23.7	0.5		
1830	30.1	1506	1.00	6.21	-23.6	18.0	0.5		
1835	30.5	1506	0.66	6.21	-24.8	14.5	0.5		
1840	31.0	1497	0.78	6.20	-28.1	11.3	0.5		
1845	31.5	1496	0.63	6.20	-29.3	11.4	0.5		Went dry
815	25.5	1779	3.09	3.89	425.3	111	0.5		7-28-15
820	24.7	1542	1.15	5.46	45.1	70.4	0.5		
825	24.7	1506	1.10	5.65	9.6	35.6	0.5		
830	25.0	1478	0.86	5.87	-8.7	20.2	0.5		
835	25.1	1471	0.88	5.90	-10.8	17.5	0.5		
840	25.4	1469	0.77	5.96	-11.4	14.6	0.5		
845	25.6	1467	0.66	6.00	-21.1	12.4	0.5		
850	25.8	1466	0.65	6.02	-27.0	9.97	0.5		
855	25.8	1463	0.64	6.05	-28.3	8.66	0.5		
900	25.9	1459	0.65	6.06	-28.1	8.55	0.5		
905 — SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SFSD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SFSD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Project No.:

Site/Location: Augusta

Sampling Date: 7/29/15

Sampler's Name: B. Fisher

Well ID: MW-306BR

Total Depth (ft)[1]: 80

Depth to Water (ft): 8.61

Well Diameter (in): 4

Well Volume (gal) = 0.041d²h: 46.8(gal)/177(L)

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

Well Condition: Good

Pump Type/Model: Peristaltic

Tubing Material: LDPE

Pump Intake Depth (ft): 67.5

Start/Stop Purge Time: 0815

Purge Rate (L/min)[2]: 0.1

Total Purge Volume (L): 2.5

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (Inorganics including cyanide) ☐ Bailer (only used if necessary) ☐ Bladder pump = pump discharge (all analytes)

Sample Collection Time: 0900

Sample Purge Rate (L/min)[3]: 0.1

Sample ID: MW-306BR-20150729-01

QA/QC Collected? —

QA/QC I.D. —

Laboratory Analyses:

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0820	22.3	0.507	1.24	7.46	-94.1	13.4	0.5	8.62	
0825	22.2	0.525	0.45	7.57	-116.0	7.55	1.0	8.62	
0830	22.1	0.526	0.33	7.61	-120.2	8.26	1.5	8.62	
0835	22.2	0.525	0.29	7.64	-121.7	2.88	2.0	8.63	
0840	22.1	0.524	0.24	7.65	-116.9	3.99	2.5	8.63	
	Parameters Stable Well ok to Sample								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: ERM
Site/Location: AGL-Augusta
Project No.:
Sampling Date: 7-30-15
Sampler's Name: J. NEAL

Well ID: MW-307TZ
Total Depth (ft)[1]: 48
Depth to Water (ft): 5.24
Well Diameter (in): 0.5
Well Volume (gal) = 0.041d²h: 0.42
d = well diameter (inches) h = length of water column (feet)
Well Condition: Good

Pump Type/Model: Peristaltic
Tubing Material: Poly/Silicon
Pump Intake Depth (ft): 42
Start/Stop Purge Time: 1530 / 1615
Purge Rate (L/min)[2]: 0.1
Total Purge Volume (L):

Sample Collection Time: 1620
Sample Purge Rate (L/min)[3]: 0.1
Sample ID: MW-307TZ-20150730-01
QA/QC Collected? NO
QA/QC I.D. NA
Laboratory Analyses: SVOCs, VOCs, Total Metals + Hg, Cyanide

Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1555	26.4	541	0.52	6.82	-75.5	3.52	0.5		
1600	26.4	538	0.41	6.72	-62.8	2.06	1.0		
1605	26.4	533	0.38	6.65	-59.0	1.52	1.5		
1610	26.5	535	0.30	6.62	-58.8	1.41	2.0		
1615	26.4	535	0.31	6.61	-59.7	0.79	2.5		
1620 = SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: ERM
Site/Location: AGL-Augusta
Project No.:
Sampling Date: 7-28-15
Sampler's Name: ANDEAL

Well ID: MW-307D
Total Depth (ft)[1]: 25.5
Depth to Water (ft): 6.80
Well Diameter (in):
Well Volume (gal) = 0.041d²h:
d = well diameter (inches) h = length of water column (feet)

Pump Type/Model: Peristaltic
Tubing Material: Poly/Silicone
Pump Intake Depth (ft): 24.5
Start/Stop Purge Time: 1140/1235
Purge Rate (L/min)[2]: 0.1
Total Purge Volume (L):

Sample Collection Time: 1235
Sample Purge Rate (L/min)[2]: 0.1
Sample ID: MW-307D-20150728-01
QA/QC Collected? NO
QA/QC I.D. ~~None~~ NA
Laboratory Analyses: SVOCs, VOCs, Total Metals + Hg, Cyanide

Well Condition: Good

Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bailer (only used if necessary) ☐ Bladder pump = pump discharge (all analytes)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1145	26.0	507	1.56	6.68	-55.6	46.8	0.5		
1150	25.1	492.1	0.63	6.52	-64.3	56.7			
1155	25.6	497	0.54	6.39	-43.5	61.5			
1200	25.3	497	0.53	6.40	-44.6	65.7			
1205	25.8	498	0.36	6.39	-45.2	52.4			
1210	25.8	500	0.34	6.39	-44.2	37.5			
1215	26.0	502	0.26	6.39	-43.6	19.8			
1220	26.3	502	0.30	6.38	-42.6	9.33			
1225	26.3	502	0.30	6.38	-42.4	9.17			
1230	26.3	502	0.30	6.38	-42.3	8.85			
1235 – SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SFSD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SFSD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: ERM
Site/Location: AGL-Augusta
Project No.:
Sampling Date: 7-28-15
Sampler's Name: A. NEAL

Well ID: MW-307SAP
Total Depth (ft)[1]: 31.5
Depth to Water (ft): 6.90
Well Diameter (in):
Well Volume (gal) = 0.041d²h:
d = well diameter (inches) h = length of water column (feet)
Well Condition: Good

Pump Type/Model: Peristaltic
Tubing Material: Poly/Silicon
Pump Intake Depth (ft): 30
Start/Stop Purge Time: 1420/1445
Purge Rate (L/min)[2]: 0.1
Total Purge Volume (L):

Sample Collection Time: 1450
Sample Purge Rate (L/min)[3]: 0.1
Sample ID: MW-307SAP-20150728-01
QA/QC Collected? NO
QA/QC I.D. N/A
Laboratory Analyses: SVOCs, VOCs, Total Metals + Hg, Cyanide

Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1425	27.3	596	1.20	6.86	-31.1	1.54	0.5		
1430	26.6	590	0.65	6.80	-62.4	1.94			
1435	27.1	582	0.64	6.60	-41.6	1.25			
1440	27.3	575	0.52	6.55	-23.4	1.20			
1445	27.7	571	0.49	6.51	-14.4	1.22			
1450 — SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Project No.:

Sampling Date: 7/31/15

Site/Location: Augusta

Sampler's Name: B. Fischer / A. Neal

Well ID: MW-307BR

Total Depth (ft)[1]: ~~3.26~~ 73.25

Depth to Water (ft): 3.26

Well Diameter (in): 4

Well Volume (gal) = 0.041d²h: 46 gal / 174 (L)

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

Well Condition: Good

Pump Type/Model: Peristaltic

Tubing Material: LDPE

Pump Intake Depth (ft): 60

Start/Stop Purge Time: 0800 / 0830

Purge Rate (L/min)[2]: 0.5

Total Purge Volume (L): 15 L

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Sample Collection Time: 0830

Sample Purge Rate (L/min)[3]: 0.1

Sample ID: MW-307BR-20150731-01

QA/QC Collected? —

QA/QC I.D. —

Laboratory Analyses:

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
No Parameters Taken									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Project No.: 0280910

Sampling Date: 7/31/15

Site/Location: Augusta, GA

Sampler's Name: W. Virga / B. Mitchell

Well ID: MW-308BR

Pump Type/Model: Peristaltic / Pegesus

Sample Collection Time: 0837

Total Depth (ft)[1]: 80.5'

Tubing Material: LDPE

Sample Purge Rate (L/min)[3]: ~0.25 L/min

Depth to Water (ft): 4.04'

Pump Intake Depth (ft): ~~80'~~ 70'

Sample ID: MW-308BR-20150731-01

Well Diameter (in): 4"

Start/Stop Purge Time: 0804/0834

QA/QC Collected? NO

Well Volume (gal) = 0.041d²h:

Purge Rate (L/min)[2]: ~0.5 L/min

QA/QC I.D.

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

Total Purge Volume (L): 15L

Laboratory Analyses: COIs

Well Condition: Good

Sampling Method (check all that apply): ☒ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☒ pump head discharge (inorganics including cyanide)

☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
NO PARAMETERS TAKEN									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Site/Location: Augusta

Project No.:

Sampling Date: 7/28/15

Sampler's Name: B. Fischer

Well ID: MW-309BR

Total Depth (ft)[1]: 109.0

Depth to Water (ft): 7.85

Well Diameter (in): 4

Well Volume (gal) = 0.041d²h: 66.4 (gal) / 251 (l)

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

Well Condition: Good

Pump Type/Model: Proactive

Tubing Material: LDPE

Pump Intake Depth (ft): 96.5

Start/Stop Purge Time: 1020

Purge Rate (L/min)[2]: 0.05

Total Purge Volume (L): 1.5

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ Bladder pump = pump discharge (all analytes)

Sample Collection Time: 1100

Sample Purge Rate (L/min)[3]: 0.1

Sample ID: MW-309BR-20150728-01

QA/QC Collected? —

QA/QC I.D. —

Laboratory Analyses:

☑ pump head discharge (Inorganics including cyanide)

☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1025	25.9	0.170	1.85	7.64	41.4	10.3	0.25	7.87	
1030	25.7	0.253	0.40	8.09	-15.1	8.68	0.50	7.87	
1035	25.5	0.287	0.59	8.34	-43.6	5.98	0.75	7.87	
1040	25.5	0.297	0.39	8.35	-121.3	5.46	1.00	7.87	
1045	25.5	0.300	0.34	8.24	-128.3	8.60	1.25	7.87	
1050	25.3	0.300	0.36	8.23	-140.0	6.18	1.50	7.88	
	Parameters	Stable, Well OK to Sample							
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: ERM
Site/Location: AGL- Augusta
Project No.:

Sampling Date: 7-28-15
Sampler's Name: A. NEAL

Well ID: MW-310SAP
Total Depth (ft)[1]: 35
Depth to Water (ft): 13.99
Well Diameter (in): 0.5
Well Volume (gal) = 0.041d²h: 0.22

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

Well Condition: Good

Pump Type/Model: Peristaltic
Tubing Material: Poly / Silicone
Pump Intake Depth (ft): 34
Start/Stop Purge Time: 1535
Purge Rate (L/min)[2]: 0.1
Total Purge Volume (L): > 4

Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Sample Collection Time: 1630
Sample Purge Rate (L/min)[3]: 0.1
Sample ID: MW-310SAP-20150728-01
QA/QC Collected? No
QA/QC I.D. NA
Laboratory Analyses: VOCs, SVOCs, Total Metals + Hg, Cyanide

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1600	28.2	469.8	4.02	7.38	-33.2	1.99	0.5		
1605	28.4	460.6	2.11	6.89	122.9	1.98			
1610	27.5	446.3	1.03	6.00	146.8	1.85			
1615	27.7	450.5	0.68	5.90	155.9	1.71			
1620	28.0	457.8	0.46	5.87	159.8	1.42			
1625	28.0	453.9	0.44	5.85	162.7	1.41			
1630 — SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Project No.: 028

Sampling Date: 7-27-15

Sampler's Name: RM

Site/Location: Augusta GA

Sample Collection Time: 18:10

Well ID: MW310+BR

Pump Type/Model: peristaltic

Sample Purge Rate (L/min)[3]: 0.1 L/min

Total Depth (ft)[1]: 90'

Tubing Material: LDPE

Sample ID: MW310-BR-20150727-01

Depth to Water (ft): 15.81

Pump Intake Depth (ft): ~~75~~ ~80'

QA/QC Collected? No

Well Diameter (in): 4"

Start/Stop Purge Time: 17:35

QA/QC I.D. —

Purge Rate (L/min)[2]: 0.1 L/min

Laboratory Analyses: COI

Well Volume (gal) = 0.041d²h:

Total Purge Volume (L): 2.5L

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

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (Inorganics including cyanide) ☐ Bailer (only used if necessary) ☐ Bladder pump = pump discharge (all analytes)

Well Condition: Good

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
17:40	24.6	0.56	0.61	6.52	443.3	28.2	0.5L	15.89	
17:45	24.3	0.56	0.62	6.54	441.9	15.5	1.0L	15.89	
17:50	24.7	0.56	0.60	6.56	439.1	5.42	1.5L	15.90	
17:55	24.9	0.56	0.53	6.60	437.0	7.10	2.0L	15.90	
18:00	24.5	0.56	0.47	6.61	436.5	3.77	2.5L	15.90	Parameters Stable; sample
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: ERM
Site/Location: AGL-Augusta
Project No.:
Sampling Date: ~~7-28-15~~ 7-29-15
Sampler's Name: A. NEAL

Well ID: MW-311
Total Depth (ft)[1]: 32
Depth to Water (ft): 7.18
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h: 4.0
d = well diameter (inches), h = length of water column (feet)
Well Condition: Good

Pump Type/Model: Peristaltic
Tubing Material: Poly / Silicone
Pump Intake Depth (ft): 30
Start/Stop Purge Time: 1750 / 1905
Purge Rate (L/min)[2]: 0.1 /
Total Purge Volume (L):

Sample Collection Time: 800
Sample Purge Rate (L/min)[3]: 0.1
Sample ID: MW-311-20150729-01
QA/QC Collected? NO
QA/QC I.D. NA
Laboratory Analyses: VOCs, SVOCs, Total Metals + Hg, Cyanide

Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

	Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
7/28/15	1755	28.8	331.1	1.66	6.39	-36.9	18.2	0.5	7.55	*Excessive drawdown → pumped well volume (~4 gal); well went dry
	1800	28.3	313.7	0.4	6.41	-60.0	5.18	1.0	7.98	
7/29/15								0.5	19.30	*Well only recharged to ~18.96 ft (DTW)
	735	24.3	470.1	0.78	6.12	-35.5	17.2	1.0	19.47	
	740	24.2	463.2	0.71	6.12	-43.0	14.2	1.5	19.58	
	745	24.3	459.1	0.65	6.09	-44.3	6.94	2.0	19.65	
	750	24.3	458.6	0.62	6.07	-44.6	6.91	2.5	19.71	* Water smells like chemicals
	755	24.3	457.7	0.58	6.08	-42.6	5.39			
	800	— SAMPLE TIME								
	Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Site/Location: Augusta

Project No.:

Sampling Date: 7/29/15

Sampler's Name: B. Fischer

Sample Collection Time: 1040

Sample Purge Rate (L/min)[3]: 0.1

Sample ID: MW-313-20150729-01

QA/QC Collected? —

QA/QC I.D. —

Laboratory Analyses:

☑ pump head discharge (inorganics including cyanide)

☐ Bailer (only used if necessary)

Well ID: MW-313

Total Depth (ft)[1]: 86.0

Depth to Water (ft): 7.10

Well Diameter (in): 4

Well Volume (gal) = $0.041d^2h$: 5.18 (gal) / 196 (L)

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

Well Condition: Good

Pump Type/Model: Peristaltic

Tubing Material: LDPE

Pump Intake Depth (ft): 73.5

Start/Stop Purge Time: 0950

Purge Rate (L/min)[2]: 0.1

Total Purge Volume (L): 3.5

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ Bladder pump = pump discharge (all analytes)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0955	27.8	0.268	0.82	10.37	-54.0	8.82	0.5	7.11	
1000	28.1	0.297	0.39	9.58	-33.2	8.87	1.0	7.11	
1005	28.2	0.301	0.34	9.31	-44.8	4.62	1.5	7.11	
1010	28.0	0.302	0.29	9.15	-47.5	6.12	2.0	7.11	
1015	28.5	0.302	0.26	9.08	-53.8	6.08	2.5	7.11	
1020	28.7	0.302	0.26	9.02	-56.6	8.43	3.0	7.11	
1025	28.9	0.302	0.39	9.01	-32.5	5.60	3.5	7.11	
	Parameters Stable, Ok to Sample Well								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL
Project No.: 0280910
Sampling Date: 7/30/15
Site/Location: Augusta, GA
Sampler's Name: W. Virgo

Well ID: MW-315
Total Depth (ft)[1]: 85'
Depth to Water (ft): 8.12
Well Diameter (in): 2"
Well Volume (gal) = 0.041d²h: 50.4 gal / 191 L
d = well diameter (inches) h = length of water column (feet)
Well Condition: Good

Pump Type/Model: Peristaltic / Pegasus
Tubing Material: LDPE
Pump Intake Depth (ft): ~75'
Start/Stop Purge Time: 1445 / 1525
Purge Rate (L/min)[2]: ~0.1
Total Purge Volume (L): 4L

Sample Collection Time: 1528
Sample Purge Rate (L/min)[3]: ~0.25
Sample ID: MW-315-20150730-01
QA/QC Collected? YES
QA/QC I.D. DUP-06-20150730-01
Laboratory Analyses: COIs

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1455	31.4	0.619	6.73	6.75	-87.8	2.78	1	8.13	
1500	31.7	0.630	25.97	6.70	-88.1	2.41	1.5	8.13	DO is very odd, ~Re-Calibrate~
1505	RECALIBRATING				YSI		2	8.13	
1510							2.5	8.13	Purging Continued During
1515	29.2	0.630	47.43	6.62	-89.5	1.36	3	8.13	Recalibration
1520	28.6	0.628	82.83	6.61	-91.3	1.44	3.5	8.13	~DO still Really High
1525	28.6	0.628	72.94	6.61	-93.1	1.76	4	8.13	
	Well	Stable	@		1525				
	Well	Sampled	@		1528				
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Project No.: 0230712

Site/Location: Augusta, GA

Sampling Date: 7/30/17

Sampler's Name: W. Virgo

Well ID: MW-318

Total Depth (ft)[1]: 87

Depth to Water (ft): 8.06

Well Diameter (in): 4"

Well Volume (gal) = 0.041d²h: 5 gal / 19 L

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

Well Condition: Good

Pump Type/Model: Peristaltic / Pegasus

Tubing Material: LDPE

Pump Intake Depth (ft): ~77

Start/Stop Purge Time: ~~0809~~ 0819

Purge Rate (L/min)[2]: ~0.1

Total Purge Volume (L): 6 L

Sampling Method (check all that apply): ☒ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☒ pump head discharge (inorganics including cyanide) ☐ Bailer (only used if necessary) ☐ Bladder pump = pump discharge (all analytes)

Sample Collection Time: 0907

Sample Purge Rate (L/min)[3]: ~0.25

Sample ID: MW-318-20170730-01

QA/QC Collected? No

QA/QC I.D. —

Laboratory Analyses: COIs

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0829	27.3	0.662	3.84	6.70	-58.9	1.22	1	8.07	
0834	27.3	0.725	3.20	6.63	-54.0	1.80	1.5	8.07	
0839	26.6	0.737	2.47	6.63	-40.6	4.84	2	8.07	
0844	26.8	0.736	2.00	6.65	-53.1	6.37	2.5	8.07	
0849	26.9	0.732	2.04	6.65	-57.0	13.3	3	8.07	
0854	24.8	0.726	1.71	6.65	-56.3	10.8	~~3.5~~ 4	8.11	Purge Rate increased to
0859	24.8	0.726	1.49	6.64	-57.2	7.22	5	8.12	0.28 L/min to try
0904	24.8	0.726	1.33	6.65	-59.2	2.13	6	8.12	& Decrease Turbidity
	Well Parameters Stable @ 0904								
	Well Sampled @ 0907								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth in bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Project No.:

Sampling Date: 7/28/15

Sampler's Name: B. Fischer

Site/Location: Augusta

Sample Collection Time: 1600

Well ID: MW-319

Pump Type/Model: Peristaltic

Sample Purge Rate (L/min)[3]: 0.1

Total Depth (ft)[1]: 80

Tubing Material: LDPE

Sample ID: MW-319-20150728-01

Depth to Water (ft): 9.39

Pump Intake Depth (ft): 67.5

QA/QC Collected? Yes

Well Diameter (in): 4.0

Start/Stop Purge Time: 1445

QA/QC I.D. MS-319-20150728-01 and MSD-319-20150728-01

Well Volume (gal) = 0.041d²h: 46.3 (gal) / 175.3 (L)

Purge Rate (L/min)[2]: 0.05

Laboratory Analyses:

Total Purge Volume (L): 2.50

☑ pump head discharge (Inorganics including cyanide)

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

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ Bailer (only used if necessary)

Well Condition: Good

☐ Bladder pump = pump discharge (all analytes)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1450	27.9	0.265	2.49	8.70	-107.9	43.1	0.25	9.41	
1455	27.0	0.440	0.35	7.66	-126.2	31.0	0.50	9.41	
1500	26.7	0.441	0.32	7.66	-127.9	29.3	0.75	9.42	
1505	26.8	0.442	0.31	7.70	-132.9	25.2	1.00	9.42	
1510	26.6	0.442	0.25	7.70	-134.2	25.1	1.25	9.42	
1515	26.8	0.440	0.23	7.66	-132.8	16.7	1.50	9.42	
1520	26.2	0.442	0.22	7.67	-135.0	14.5	1.75	9.43	
1525	27.0	0.441	0.21	7.69	-134.0	14.5	2.00	9.43	
1530	27.1	0.442	0.21	7.69	-137.0	14.4	2.25	9.44	
1535	26.4	0.442	0.30	7.69	-137.1	15.8	2.50	9.44	
	Parameters stable, Well ok to sample								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling, to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: AGI
Project No.: 0230712
Sampling Date: 7/27/15
Site/Location: Augusta, GA
Sampler's Name: B. Fisher

Well ID: MW-320
Pump Type/Model: Proactive/LF2
Sample Collection Time: ~~MW-320-20150727-01~~
Total Depth (ft)[1]: 26.0
Tubing Material: LDPE
Sample Purge Rate (L/min)[3]: 1925
Depth to Water (ft): 8.81
Pump Intake Depth (ft): 23.0
Sample ID: MW-320-20150727-01
Well Diameter (in): 4
Start/Stop Purge Time: @ 1825
QA/QC Collected? —
Well Volume (gal) = 0.041d²h: 44.1(gal)/16.7(L)
Purge Rate (L/min)[2]: 0.1
QA/QC I.D. —
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 4.5
Laboratory Analyses:
Well Condition: Good
Sampling Method (check all that apply): ☒ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1830	31.3	0.303	1.02	7.14	-26.2	77.6	0.5	8.82	
1835	31.5	0.302	0.63	7.19	-44.3	50.0	1.0	8.82	
1840	31.6	0.305	0.45	7.23	-51.3	22.5	1.5	8.82	
1845	30.9	0.305	0.32	7.26	-57.9	17.3	2.0	8.82	
1850	30.8	0.304	0.30	7.26	-63.4	16.1	2.5	8.82	
1855	30.3	0.304	0.26	7.26	-47.2	17.0	3.0	8.82	
1900	30.4	0.303	0.28	7.25	-35.1	13.0	3.5	8.82	
1905	30.1	0.305	0.25	7.25	-42.9	12.5	4.0	8.82	
1910	30.1	0.304	0.23	7.25	-37.7	9.79	4.5	8.82	
	Parameters stable, well OK to sample								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling, to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Project No.:

Sampling Date: 7-29-15

Sampler's Name: BM

Site/Location: Augusta, GA

Well ID: MW-321

Total Depth (ft)[1]: 17.0'

Depth to Water (ft): 7.80'

Well Diameter (in): 4"

Well Volume (gal) = 0.041d²h: 10.4 (gal)

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

Well Condition: Good

Pump Type/Model: Peristaltic

Tubing Material: LDPE

Pump Intake Depth (ft): 21.65'

Start/Stop Purge Time: 10:20

Purge Rate (L/min)[2]: 0.1 L/min - 1.0 L/min

Total Purge Volume (L): 23.0L

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bailer (only used if necessary) ☐ Bladder pump = pump discharge (all analytes)

Sample Collection Time: 11:20

Sample Purge Rate (L/min)[3]: 0.1 L/min

Sample ID: MW-321-20072915-01

QA/QC Collected? No

QA/QC I.D. --

Laboratory Analyses: COI

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
10:25	26.2	0.439	0.84	8.09	273.5	2.73	0.5L	7.93	
10:30	26.8	0.450	0.59	7.86	272.9	3.13	1.0L	8.00	
10:35	27.1	0.456	0.54	7.78	272.8	6.03	1.5L	8.10	
10:40	22.7	0.454	0.65	7.79	271.3	3.50	2.0L	8.20	Excessive drawdown, 3 well vol purge not feasible,
11:00	26.2	0.451	0.64	7.67	270.6	6.87	22.0L	9.85	(6hrs for 1 vol) increase rate to 1.0 L/min
11:05	28.2	0.455	0.25	7.68	270.1	7.30	22.5L	9.61	to stabilize WL
11:10	28.4	0.454	0.24	7.68	269.1	8.37	23.0L	9.35	Parameters stable; Sample
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[6]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SFSD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SFSD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Project No.:

Sampling Date: 7-29-15

Sampler's Name: BM

Site/Location: Augusta GA

Well ID: ~~MW-32~~ MW-324

Total Depth (ft)[1]: 215'

Depth to Water (ft): 8.32

Well Diameter (in): 4"

Well Volume (gal) = 0.041d²h:

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

Well Condition: Good

Pump Type/Model: Peristaltic

Tubing Material: LDPE

Pump Intake Depth (ft): ~ 210'

Start/Stop Purge Time: 8:15

Purge Rate (L/min)[2]: 0.1 L/min

Total Purge Volume (L): 2.5L

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (inorganics including cyanide)

☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Sample Collection Time: 8:50

Sample Purge Rate (L/min)[3]: 0.1 L/min

Sample ID: MW-324-29072015-01

QA/QC Collected? No

QA/QC I.D. —

Laboratory Analyses: COI

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
8:20	23.6	0.130	0.64	9.39	240.7	1.65	0.5L	8.34	
8:25	23.8	0.129	0.55	9.43	241.3	2.07	1.0L	8.34	
8:30	23.7	0.130	0.45	9.44	241.7	2.55	1.5L	8.34	
8:35	23.9	0.129	0.44	9.46	242.1	2.00	2.0L	8.34	
8:40	24.2	0.130	0.43	9.47	242.5	1.98	2.5L	8.34	Pressure Stable; Sample
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: AGL
Project No.: 0230712
Sampling Date: 7/28/15
Site/Location: Augusta, GA
Sampler's Name: W. Virgo

Well ID: MW-325
Total Depth (ft)[1]: 115
Depth to Water (ft): 9.84
Well Diameter (in): 4"
Well Volume (gal) = 0.041d²h: 69 gal / 261.1 L
d = well diameter (inches) h = length of water column (feet)
Well Condition: Good

Pump Type/Model: Purgesos/Peristaltic
Tubing Material: LDPE
Pump Intake Depth (ft): ~105'
Start/Stop Purge Time: 0820
Purge Rate (L/min)[2]: ~ 0.05 L/min
Total Purge Volume (L):

Sample Collection Time: 0808
Sample Purge Rate (L/min)[3]: ~0.25 L/min
Sample ID: MW-325-20150728-01
QA/QC Collected? NO
QA/QC I.D.
Laboratory Analyses: COIs

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0830	28.4	0.138	2.37	7.43	-54.6	2.27	0.5	10.04	Weather: Sunny, Hot, Humid
0835	28.4	0.140	1.84	7.68	-117.6	1.23	0.75	10.09	
0840	28.5	0.132	1.63	7.71	-144.6	1.69	1.00	~~10.10~~ 10.14	
0845	28.7	0.132	1.47	7.80	-166.6	1.42	1.25	10.19	Drawdown greater than 0.3'
0850	28.5	0.138	1.37	7.85	-180.1	1.37	1.50	10.26	-3 well volume method
0855	28.5	0.131	1.36	7.87	-187.8	1.18	1.75	10.33	ignored due to 261 L
0900	28.7	0.131	1.21	7.92	-200.8	0.99	2.00	10.37	well volumes
0905	28.5	0.131	1.04	7.94	-210.1	1.05	2.25	10.44	- Low flow resumed to stabilization
	Well Parameters stable @ 0905								
	Well Sampled @ 0808								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling, to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL
Project No.: 0230712
Sampling Date: 7/28/15
Site/Location: Augusta, GA
Sampler's Name: W. Virgo

Well ID: MW-401SAP
Pump Type/Model: Peristaltic / Pegasus
Sample Collection Time: 1806
Total Depth (ft)[1]: 43.1'
Tubing Material: LDPE
Sample Purge Rate (L/min)[3]: ~0.25
Depth to Water (ft): 9.91'
Pump Intake Depth (ft): ~38'
Sample ID: MW-401SAP-20150728-01
Well Diameter (in): 2"
Start/Stop Purge Time: 1558 / 1803
QA/QC Collected? NO
Well Volume (gal) = 0.041d²h: 5.4 gal / 20.6 L
Purge Rate (L/min)[2]: ~~0.50~~ 0.05
QA/QC I.D.
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 64.5 L
Laboratory Analyses: COIs

Well Condition: Good

Sampling Method (check all that apply): ☒ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☒ pump head discharge (inorganics including cyanide)
☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1608	36.6	0.324	1.86	6.06	57.7	7.47	0.5	10.41	
1643	22.4	0.316	0.58	5.77	84.7	4.57	21.5	25.17	Vol 1 Drawdown > 0.3'
1718	23.1	0.322	0.31	5.84	86.5	2.75	42.5	28.59	Vol 2 Purge rate increased
1753	23.7	0.316	0.32	5.84	83.5	2.00	63.5	28.99	Vol 3 to 0.6 L/min
1758	24.3	0.315	0.47	5.84	82.9	2.02	64	28.31	for 3 well volumes
1803	24.5	0.317	0.99	5.85	81.1	1.97	64.5	27.41	
									Purge Rate decreased
	Well	Parameters		stable @	1803				to 0.1 L/min after
									3 well volumes
	well	sampled		@	1806				
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Site/Location: Augusta

Project No.: 0280910

Sampling Date: 7/30/15

Sampler's Name: W. Vigo

Well ID: MW-401S

Total Depth (ft)[1]: 20'

Depth to Water (ft): 10.23

Well Diameter (in): 2"

Well Volume (gal) = 0.041d²h:

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

Well Condition: Good

Pump Type/Model: Peristaltic / Pegasus

Tubing Material: LDPE

Pump Intake Depth (ft): ~17'

Start/Stop Purge Time: 1639

Purge Rate (L/min)[2]: ~0.1

Total Purge Volume (L): 3L

Sampling Method (check all that apply): ☒ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☒ pump head discharge (inorganics including cyanide) ☐ Bailer (only used if necessary) ☐ Bladder pump = pump discharge (all analytes)

Sample Collection Time: 1712

Sample Purge Rate (L/min)[3]: ~0.25

Sample ID: MW-401S-20150730-01

QA/QC Collected? YES

QA/QC I.D. DUP-01-20150730-01

Laboratory Analyses: COIs

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1649	23.1	0.456	~~20.5~~ 1.04	6.09	73.4	5.66	1	10.24	
1654	22.9	0.450	1.27	6.32	64.2	4.37	1.5	10.24	
1659	22.8	0.448	1.06	6.23	69.9	3.82	2	10.25	
1704	22.6	0.450	0.77	6.27	68.2	3.75	2.5	10.25	
1709	22.7	0.451	0.69	6.25	67.7	3.02	3	10.25	
	Well Parameters			stable	@		1709		
	Well Sampled	@			1712				
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or ≤10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: FRM
Site/Location: AGL-Augusta
Project No.:
Sampling Date: 7-30-15
Sampler's Name: A-NEAL

Well ID: MW-401D
Total Depth (ft)[1]: 36
Depth to Water (ft): 10.15
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h: 4.2
d = well diameter (inches) h = length of water column (feet)
Well Condition: Good

Pump Type/Model: Peristaltic
Tubing Material: Poly / Silicon
Pump Intake Depth (ft): 30
Start/Stop Purge Time: 1415 / 1500
Purge Rate (L/min)[2]: 0.1
Total Purge Volume (L): 4.5

Sample Collection Time: 1505
Sample Purge Rate (L/min)[3]: 0.1
Sample ID: MW-401D-20150730-01
QA/QC Collected? NO
QA/QC I.D. NA
Laboratory Analyses: VOCs, SVOCs, Total Metals & Hg, Cyanide

Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1420	30.1	538	0.79	7.07	125.7	8.85	0.5	10.16	
1425	28.5	559	0.84	6.81	130.5	5.79	1.0	10.17	
1430	28.6	546	0.50	6.69	130.6	5.66	1.5	10.17	
1435	30.1	523	0.43	6.48	126.9	7.89	2.0	10.17	
1440	30.0	516	0.36	6.43	125.7	6.35	2.5	10.17	
1445	29.4	497	0.36	6.42	126.1	6.53	3.0	10.17	
1450	29.2	448.1	0.33	6.27	125.6	5.47	3.5	10.17	
1455	29.4	452.9	0.34	6.26	126.9	3.86	4.0	10.17	
1500	29.6	458.0	0.37	6.26	126.7	3.04	4.5	10.17	
1505	— SAMPLE TIME								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[6]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGC
Project No.:
Site/Location: Augusta, GA

Sampling Date: 7/28/15
Sampler's Name: W. Vigo

Well ID: MW-402S
Total Depth (ft)[1]: 19'
Depth to Water (ft): 12.51
Well Diameter (in): 2"
Well Volume (gal) = 0.041d²h: 1.06 gal / 4.2
d = well diameter (inches) h = length of water column (feet)
Well Condition: Good

Pump Type/Model: Peristaltic/Pegasus
Tubing Material: LDPE
Pump Intake Depth (ft): ~14'
Start/Stop Purge Time: 1419 / 1449
Purge Rate (L/min)[2]: ~0.1
Total Purge Volume (L): 36

Sample Collection Time: 1452
Sample Purge Rate (L/min)[3]: ~0.25 L/min
Sample ID: MW-402S-20150728-01
QA/QC Collected? YES (MS/MSD)
QA/QC I.D. MS-402S-20150728-01 / MSD-402S-20150728-01
Laboratory Analyses: COTs

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (inorganics including cyanide) ☐ Bailer (only used if necessary) ☐ Bladder pump = pump discharge (all analytes)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1429	25.2	0.565	1.53	6.18	43.5	1.68	1	12.52	
1434	25.4	0.564	1.63	6.13	45.9	2.37	1.5	12.53	
1439	25.9	0.566	1.24	6.12	46.9	0.82	2	12.53	
1444	26.2	0.566	1.11	6.12	48.3	1.43	2.5	12.53	
1449	26.4	0.565	0.95	6.12	49.2	1.31	3	12.53	
	Well Parameters Stable @ 1449								
	Well Sampled @ 1452								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling; to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: AGL
Project No.: 0230712
Sampling Date: 7/28/15
Site/Location: Augusta, GA
Sampler's Name: W. Virga

Well ID: MW-402D
Total Depth (ft)[1]: 26'
Depth to Water (ft): 12.64
Well Diameter (in): 2"
Well Volume (gal) = 0.041d²h: 2.2 gal / 8.3
d = well diameter (inches) h = length of water column (feet)
Well Condition: Good

Pump Type/Model: Peristaltic / Pegasus
Tubing Material: LDPE
Pump Intake Depth (ft): ~21'
Start/Stop Purge Time: 1127 / 1207
Purge Rate (L/min)[2]: ~0.1
Total Purge Volume (L): 4L

Sample Collection Time: 1210
Sample Purge Rate (L/min)[3]: ~0.25 L/min
Sample ID: MW-402D-20150728-01
QA/QC Collected? NO
QA/QC I.D. —
Laboratory Analyses: COIs

Sampling Method (check all that apply): ☒ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☒ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1137	YSI	Needed	new	Batteries		Missed	Reading		Weather: Sunny, ~80°F, Humid
1142	27.5	0.612	2.77	6.29	-5.9	19.4	1.5	12.66	
1147	26.8	0.630	1.99	6.26	2.1	10.5	2	12.67	
1152	27.2	0.638	1.48	6.22	10.5	7.65	2.5	12.67	
1157	27.2	0.650	1.13	6.21	18.1	2.04	3	12.67	
1202	26.8	0.659	0.85	6.21	23.0	2.31	3.5	12.67	
1207	26.9	0.658	0.75	6.21	26.3	2.95	4	12.67	
	Well	Parameters			Stable		@	1207	
	Well	Sampled	@			1210			
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Project No.:

Sampling Date: 7/30/15

Sampler's Name: B. Fischer

Site/Location: Augusta

Well ID: MW-404DR

Total Depth (ft)[1]: 21.5

Depth to Water (ft): 8.26

Well Diameter (in): 2

Well Volume (gal) = $0.041d^2h$: 2.17 gal / 8.2 L

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

Well Condition: Good

Pump Type/Model: Proactive

Tubing Material: LDPE

Pump Intake Depth (ft): 19.0

Start/Stop Purge Time: 1055

Purge Rate (L/min)[2]: 0.05 / 0.5

Total Purge Volume (L): 25.75

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Sample Collection Time: 12:15

Sample Purge Rate (L/min)[3]: 0.1

Sample ID: MW-404DR-20150730-01

QA/QC Collected? —

QA/QC I.D. —

Laboratory Analyses:

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1100	26.6	0.771	13.3	6.64	214.7	27.2	0.25	8.71	>0.3' drawdown, Purging 2 well vol.
1116	23.0	0.716	0.28	6.49	181.5	8.37	8.25	16.45	Flow rate = 0.5 L/min 1vol
1133	21.5	0.759	0.51	6.51	192.8	1.88	16.75	18.12	2vol
1149	21.1	0.750	0.20	6.50	114.8	3.18	24.75	19.75	3vol
1154	24.3	0.753	0.27	6.47	116.5	1.84	25.00	19.72	Purge rate = 0.05 L/min
1159	24.4	0.752	0.26	6.49	95.9	2.43	25.25	19.73	
1204	25.4	0.753	0.50	6.48	119.6	2.53	25.50	19.76	
1209	25.5	0.752	0.45	6.47	118.6	5.74	25.75	19.79	
	Parameters stabilized, well ok to sample								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling, to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SFSD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SFSD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: AGL
Project No.: 0230712
Sampling Date: 7/29/15
Site/Location: Augusta, GA
Sampler's Name: W. Virgo

Well ID: MW-4085
Pump Type/Model: Peristaltic/Pegasus
Sample Collection Time: 0836
Total Depth (ft)[1]: ~19'
Tubing Material: LDPE
Sample Purge Rate (L/min)[3]: ~0.25
Depth to Water (ft): 8.72
Pump Intake Depth (ft): ~14'
Sample ID: MW-4085-20150729-01
Well Diameter (in): 2"
Start/Stop Purge Time: 0758/0833
QA/QC Collected? NO
Well Volume (gal) = 0.041d²h: 1.7 gal / 6.42
Purge Rate (L/min)[2]: ~0.1
QA/QC I.D. —
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 3.5L
Laboratory Analyses: COIS
Well Condition: Good
Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (Inorganics including cyanide)
☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0808	25.8	1.556	1.79	6.22	-108.1	7.25	1	8.81	Weather: Partly Cloudy High
0813	25.8	1.547	1.26	6.25	-106.9	6.79	1.5	8.82	humidity
0818	25.8	1.542	1.09	6.28	-109.1	7.46	2	8.83	
0823	25.8	1.534	1.03	6.31	-118.9	8.14	2.5	8.83	Sheen appearing on top of
0828	25.9	1.530	0.96	6.36	-126.4	9.76	3	8.83	water in Purge Bucket
0833	26.0	1.517	0.95	6.37	-125.2	9.64	3.5	8.83	
	Well Parameters Stable @ 0833								
	Well Sampled @ 0836								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: AGL
Project No.: 0230712
Sampling Date: 7/29/15
Site/Location: Augusta, GA
Sampler's Name: W. Virgo

Well ID: MW-408DR
Pump Type/Model: Peristaltic / Pegasus
Sample Collection Time: 1031
Total Depth (ft)[1]: 25'
Tubing Material: LDPE
Sample Purge Rate (L/min)[3]: ~0.25
Depth to Water (ft): 8.14'
Pump Intake Depth (ft): ~22.5'
Sample ID: MW-408DR-20150729-01
Well Diameter (in): 2"
Start/Stop Purge Time: 0855/1028
QA/QC Collected? NO
Well Volume (gal) = 0.041d²h: 2.7 gal/10.5 L
Purge Rate (L/min)[2]: ~0.1
QA/QC I.D. —
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 34.5 L
Laboratory Analyses: COTs
Well Condition: Good
Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (Inorganics including cyanide)
☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0905	25.4	0.754	0.98	6.03	-68.7	17.0	1	9.22	Drawdown >0.3' 3 well
0926	22.2	0.738	6.76	5.95	-59.9	48.2	11.5	13.31	Vol 1 Volumes Purged
0947	21.7	0.739	0.90	5.85	-51.6	33.3	22	18.90	Vol 2 Purge Rate increased to
1008	21.5	0.769	0.69	5.90	-59.1	24.0	32.5	20.32	Vol 3 0.5 L/min for 3
1013	23.9	0.769	1.37	5.91	-62.5	17.9	33	19.91	well Volumes
1018	24.2	0.771	1.69	5.92	-63.5	24.1	33.5	18.82	
1023	24.5	0.786	1.64	5.91	-61.5	22.6	34	17.96	After 3 well vol Purge
1028	24.7	0.786	1.10	5.89	-60.1	23.3	34.5	17.34	Rate Decreased to
									0.1 L/min
	Well	Parameters		Stable	w/	Turbidity	w/in		
	10	28		1028					
	Well	Sampled			1031				
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Project No.:

Sampling Date: 7-29-15

Site/Location: Augusta, GA

Sampler's Name: BM

Well ID: MW-500BR

Pump Type/Model: Peristaltic

Sample Collection Time: 15:50

Total Depth (ft)[1]: 79'

Tubing Material: LDPE

Sample Purge Rate (L/min)[3]: 0.1 L/min

Depth to Water (ft): 9.37'

Pump Intake Depth (ft): ~75'

Sample ID: MW-500BR-20072015-01

Well Diameter (in): 3"

Start/Stop Purge Time: 15:10

QA/QC Collected? No

Purge Rate (L/min)[2]: 0.1 L/min

QA/QC I.D. —

Well Volume (gal) = $0.041d^2h$:

Total Purge Volume (L): 2.5L

Laboratory Analyses: COI

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

Well Condition: Good

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
15:15	28.4	0.187	1.47	8.72	276.1	5.74	0.5L	9.49	
15:20	29.0	0.188	0.46	8.82	275.2	9.00	1.0L	9.37	
15:25	28.4	0.190	0.43	8.90	274.9	5.54	1.5L	9.46	
15:30	28.7	0.190	0.40	8.95	275.0	6.27	2.0L	9.45	
15:35	28.8	0.192	0.38	8.98	274.1	5.54	2.5L	9.45	Parameters Stable, Sample
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling, to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: AGL
Project No.:
Sampling Date: 7/30/15
Site/Location: Augusta
Sampler's Name: B. Fischer

Well ID: MW-5015
Pump Type/Model: Peristaltic
Sample Collection Time: 1520
Total Depth (ft)[1]: 12.0
Tubing Material: LDPE
Sample Purge Rate (L/min)[3]: 0.1
Depth to Water (ft): 7.98
Pump Intake Depth (ft): 9.5
Sample ID: MW-5015-20150730-01
Well Diameter (in): 2
Start/Stop Purge Time: 1425
QA/QC Collected? —
Well Volume (gal) = 0.041d²h: 0.66 gal / 2.5(L)
Purge Rate (L/min)[2]: 0.05 / 0.5
QA/QC I.D. —
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 8.65
Laboratory Analyses:
Well Condition: Good
Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1430	28.6	0.739	1.26	6.77	-40.8	9.12	0.25	8.11	
1435	28.7	0.730	0.28	6.77	-45.7	7.45	0.50	8.26	
1438							0.65		drawdown > 0.3 ft, purging 3 well vol.
1442	25.7	0.724	0.16	6.88	-59.5	5.44	2.65	9.22	Flow rate = 0.5 L/min 1 vol
1447	25.0	0.728	0.14	6.82	-47.9	7.39	5.15	10.35	2 vol
1452	26.5	0.730	4.31	7.05	-61.1	4.25	7.65	10.56	3 vol
1457	27.7	0.746	0.63	6.76	-35.5	7.09	7.90	10.65	Flow rate = 0.05 L/min
1502	27.9	0.746	0.30	6.74	-40.6	1.14	8.15	10.70	
1507	28.0	0.744	0.24	6.76	-37.9	1.88	8.40	10.81	
1512	27.7	0.739	0.22	6.76	-34.7	0.86	8.65	10.88	
	Parameters Stable, Well ok to Sample								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: ERM

Site/Location: AGL - August

Project No.:

Sampling Date: 7-29-15

Sampler's Name: A. NEAL

Well ID: MW-503BR

Total Depth (ft)[1]: 76

Depth to Water (ft): 8.23

Well Diameter (in): 6

Well Volume (gal) = 0.041d²h: 100

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

Well Condition: Good

Pump Type/Model: Peristaltic

Tubing Material: Poly / Silicone

Pump Intake Depth (ft): 68

Start/Stop Purge Time: 1140 / 1210

Purge Rate (L/min)[2]: 0.1

Total Purge Volume (L): 3.0

Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (inorganics including cyanide) ☐ Bailer (only used if necessary) ☐ Bladder pump = pump discharge (all analytes)

Sample Collection Time: 1215

Sample Purge Rate (L/min)[3]: 0.1

Sample ID: MW-503BR-20150729-01

QA/QC Collected? NO

QA/QC I.D. NA

Laboratory Analyses: VOCs, SVOCs, Total Metals + Hg, Cyanide

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1145	31.0	127.0	0.38	8.48	-108.7	3.14	0.5	8.25	
1150	29.9	127.1	0.18	8.26	-134.7	2.74	1.0	8.29	
1155	29.3	126.7	0.16	8.22	-143.6	3.38	1.5	8.32	
1200	30.2	126.0	0.12	8.13	-161.0	2.52	2.0	8.37	
1205	29.7	124.7	0.11	8.11	-166.6	1.99	2.5	8.42	
1210	29.9	124.9	0.07	8.06	-184.7	1.66	3.0	8.45	
1215 — SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: ERM

Site/Location: AGL - Augusta

Project No.:

Sampling Date: 7-29-15

Sampler's Name: A. NEAL

Well ID: ~~MW-321~~ MW-504BR

Total Depth (ft)[1]: ~~[illegible]~~ 80

Depth to Water (ft): 7.55

Well Diameter (in): 6

Well Volume (gal) = 0.041d²h: 11.8

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

Pump Type/Model: Peristaltic

Tubing Material: Poly/ Silicone

Pump Intake Depth (ft): 70

Start/Stop Purge Time: 1015 / 1040

Purge Rate (L/min)[2]: 0.1

Total Purge Volume (L): 2.5

Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (inorganics including cyanide) ☐ Bailer (only used if necessary) ☐ Bladder pump = pump discharge (all analytes)

Well Condition: Good

Sample Collection Time: 1045

Sample Purge Rate (L/min)[3]: 0.1

Sample ID: ~~MW-321-20150729-01~~ MW-504BR-20150729-01

QA/QC Collected? NO

QA/QC I.D. NA

Laboratory Analyses: VOCs, SVOCs, ~~Total Metals~~ Hg, Cyanide

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1020	29.7	183.5	0.84	9.58	-31.5	87.9	0.5	7.58	
1025	29.9	183.1	0.72	9.61	-52.2	38.5	1.0	7.58	
1030	30.3	182.6	0.25	10.01	-74.2	7.71	1.5	7.58	
1035	30.34	183.8	0.25	10.03	-81.4	6.49	2.0	7.58	
1040	30.14	183.6	0.22	10.05	-82.2	6.83	2.5	7.58	
1045 - SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling, to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: ERM
Site/Location: AGL-AUGUSTA
Project No.:
Sampling Date: 7-29-15
Sampler's Name: ANEAR

Well ID: MW-505D
Total Depth (ft)[1]: 26
Depth to Water (ft): 8.10
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h: 2.9
d = well diameter (inches) h = length of water column (feet)
Well Condition: Good

Pump Type/Model: PERISTALTIC
Tubing Material: POLY, SILICONE
Pump Intake Depth (ft): 22
Start/Stop Purge Time: 1445
Purge Rate (L/min)[2]: 0.1
Total Purge Volume (L):

Sample Collection Time: 1535
Sample Purge Rate (L/min)[3]: 0.1
Sample ID: MW-505D-20150729-01
QA/QC Collected? NO
QA/QC I.D. NA
Laboratory Analyses: VOCs, SVOCs, Total Metals, Hg, Cyanide

Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1450	30.1	648	2.11	6.10	52.1	44.1	0.5	8.15	
1455	30.2	646	0.72	6.10	-52.8	52.1	0.10	8.14	
1500	30.3	647	0.55	6.10	-52.2	16.8	1.5	8.14	
1505	30.3	647	0.38	6.11	-51.3	19.8	2.0	8.14	
1510	30.0	649	0.32	6.11	-49.3	20.8	2.5	8.14	
1515	30.6	650	0.29	6.11	-49.0	10.8	3.0	8.14	
1520	30.1	652	0.26	6.11	-45.5	8.73	3.5	8.14	
1525	30.3	650	0.26	6.11	-45.6	8.47	4.0	8.14	
1530	29.7	654	0.26	6.10	-44.2	8.59	4.5	8.14	
1535 - SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: ERM
Site/Location: AGL-Augusta
Project No.:
Sampling Date: 7-30-15
Sampler's Name: A.NEAL

Well ID: MW-507BR
Total Depth (ft)[1]: 125
Depth to Water (ft): 15.55
Well Diameter (in): 4
Well Volume (gal) = 0.041d²h: 69.8
d = well diameter (inches) h = length of water column (feet)
Well Condition: Good

Pump Type/Model: Peristaltic
Tubing Material: Poly/Silicon
Pump Intake Depth (ft): 110
Start/Stop Purge Time: 1035/1145
Purge Rate (L/min)[2]: 0.9
Total Purge Volume (L): 14.0

Sample Collection Time: 1150
Sample Purge Rate (L/min)[3]: 0.1
Sample ID: MW-507BR-20150730-01
QA/QC Collected? NO
QA/QC I.D. NA
Laboratory Analyses: VOCs, SVOCs, Total Metals + Hg, Cyanide

Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1040	26.7	333.6	2.06	9.93	41.0	8.52	0.5	15.62	
1045	27.5	350.7	1.48	10.13	27.6	88.8	1.0	15.69	
1050	29.6	363.2	1.77	10.25	18.9	94.2	1.5	15.74	
1055	30.7	377.7	1.20	10.32	11.0	100.0	2.0	15.82	
1100	30.0	385.7	1.19	10.32	9.0	97.0	2.5	15.87	
1105	30.8	385.0	1.20	10.32	6.0	78.3	3.0	15.94	
1110	31.7	383.7	1.49	10.37	4.2	74.0	3.5	16.00	
1115	23.9	344.9	1.46	10.26	9.5	72.1	4.0	—	Excessive drawdown @ low flow.
									~~[illegible]~~
									increased pumping rate for 10 minutes
1125	23.0	271.2	3.26	9.35	37.0	6.52	12.0	17.25	then decreased flow to previous rate
1130	28.3	273.7	2.85	9.33	24.9	5.84	12.5	17.40	
1135	28.8	273.8	2.91	9.31	27.0	3.40	13.0	17.46	
1140	29.4	274.8	2.73	9.29	32.2	3.47	13.5	17.55	
1145	29.9	275.2	2.78	9.27	41.3	5.37	14.0	17.60	
1150 – SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SFSD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SFSD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: ERM
Project No.:
Sampling Date: 7-30-15
Site/Location: AGL-Augusta
Sampler's Name: A. NEAL

Well ID: MW-508BR
Pump Type/Model: Peristaltic
Sample Collection Time: 845
Total Depth (ft)[1]: 86
Tubing Material: Poly / Silicon
Sample Purge Rate (L/min)[3]: 0.1
Depth to Water (ft): ~~[illegible]~~ 10.55
Pump Intake Depth (ft): 75
Sample ID: MW-508BR-20150730-01
Well Diameter (in): 4
Start/Stop Purge Time: 815 / 840
QA/QC Collected? YES
Well Volume (gal) = 0.041d²h: 49.5
Purge Rate (L/min)[2]: 0.1
QA/QC I.D. ~~[illegible]~~ DUP-02-20150730-01
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 2.5
Laboratory Analyses: SVOCs, VOCs, Total Metals + Hg, Cyanide
Well Condition: Good
Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
820	27.8	2005	1.81	11.76	-19.1	5.54	0.5	~~[illegible]~~	10.51
825	27.1	2030	1.38	11.50	-34.3	5.13	1.0	10.62	
830	25.7	2035	0.95	11.74	-46.8	2.39	1.5	10.68	
835	26.3	2041	0.91	11.75	-51.1	1.66	2.0	10.73	
840	26.3	2045	0.84	11.75	-55.7	1.32	2.5	10.78	
845 - SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: ERM
Project No.:
Site/Location: AGL-Augusta

Sampling Date: 7-29-15
Sampler's Name: A. Near

Well ID: MW-509BR
Total Depth (ft)[1]: 76
Depth to Water (ft): 7.40
Well Diameter (in): 6
Well Volume (gal) = 0.041d²h: 101.2
d = well diameter (inches) h = length of water column (feet)
Well Condition: Good

Pump Type/Model: Peristaltic
Tubing Material: PoL, Silicone
Pump Intake Depth (ft): 68.0
Start/Stop Purge Time: 1620/1645
Purge Rate (L/min)[2]: 0.1
Total Purge Volume (L): 2.5

Sample Collection Time: 1650
Sample Purge Rate (L/min)[3]: 0.1
Sample ID: MW-509BR-20150729-01
QA/QC Collected? No
QA/QC I.D. N/A
Laboratory Analyses: VOCs, SVOCs, Total Metals + Hg, Cyanide

Sampling Method (check all that apply): ☐ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1625	31.1	226.3	0.52	10.20	-70.7	3.75	0.5	7.40	
1630	30.7	231.6	0.43	10.26	-75.1	8.73	1.0	7.45	
1635	30.1	233.8	0.30	10.36	-95.2	8.25	1.5	7.51	
1640	29.9	234.4	0.23	10.39	-95.7	8.06	2.0	7.55	
1645	30.0	237.5	0.17	10.39	-109.8	7.58	2.5	7.62	
1650 - SAMPLE TIME									
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.
(8) ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

ERM

GROUND WATER SAMPLING LOG SHEET

Client: AGL
Project No.:
Sampling Date: 7/29/15
Site/Location: Augusta
Sampler's Name: B. Fischer

Well ID: MW-510BR
Pump Type/Model: Peristaltic
Sample Collection Time: 1540
Total Depth (ft)[1]: 80.0
Tubing Material: LDPE
Sample Purge Rate (L/min)[3]: 0.1
Depth to Water (ft): 7.46
Pump Intake Depth (ft): 70.0
Sample ID: MW-510BR-20150729-15
Well Diameter (in): 6
Start/Stop Purge Time: 1455
QA/QC Collected? —
Well Volume (gal) = 0.041d²h: 107 (gal) / [redacted] 405 (L)
Purge Rate (L/min)[2]: 0.05
QA/QC I.D.
d = well diameter (inches) h = length of water column (feet)
Total Purge Volume (L): 1.50
Laboratory Analyses:
Well Condition: Good
Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (Inorganics including cyanide)
☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1500	25.9	0.161	0.37	7.69	-84.0	29.0	0.25	7.52	
1505	25.9	0.160	0.21	7.60	-96.7	21.3	0.50	7.60	
1510	25.5	0.160	0.20	7.55	-102.7	15.2	0.75	7.66	
1515	25.5	0.160	0.14	7.51	-107.4	12.5	1.00	7.73	
1520	25.5	0.158	0.21	7.49	-107.8	10.1	1.25	7.78	
1525	25.7	0.158	0.12	7.47	-110.5	9.93	1.50	7.85	
	Parameters stable, drawdown greater than 0.3 ft.,								
	but due to large well volume, well will be sampled at								
	stabilization.								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Project No.:

Sampling Date: 7/29/15

Sampler's Name: B. Fischer

Site/Location: Augusta

Well ID: MW-5R BR

Total Depth (ft)[1]: 76.0

Depth to Water (ft): 7.60

Well Diameter (in): 6

Well Volume (gal) = 0.041d²h: 100.9 gal (382.7 L)

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

Well Condition: Good

Pump Type/Model: Peristaltic

Tubing Material: HDPE

Pump intake Depth (ft): 66.0

Start/Stop Purge Time: 1155

Purge Rate (L/min)[2]: ~~[illegible]~~ 0.05

Total Purge Volume (L): 2.50

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (Inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Sample Collection Time: 1300

Sample Purge Rate (L/min)[3]: 0.1

Sample ID: MW-5R BR-20150729-01

QA/QC Collected? —

QA/QC I.D. —

Laboratory Analyses:

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1200	26.2	0.210	1.05	10.73	-99.1	129	0.25	7.63	
1205	25.9	0.240	0.29	10.99	-127.9	45.0	0.50	7.70	
1210	26.4	0.247	0.30	11.10	-134.3	33.9	0.75	7.76	
1215	26.6	0.267	0.27	11.14	-145.3	33.9	1.00	7.83	
1220	26.5	0.263	0.24	11.16	-147.2	30.0	1.25	7.87	
1225	26.8	0.267	0.24	11.22	-146.2	25.0	1.50	7.91	
1230	26.7	0.276	0.26	11.26	-151.2	24.4	1.75	7.95	
1235	26.8	0.286	0.23	11.27	-147.3	22.4	2.00	8.00	
1240	27.1	0.288	0.26	11.28	-151.1	23.2	2.25	8.02	
1245	26.8	0.288	0.19	11.28	-154.3	21.4	2.50	8.05	
	Parameters stable. Draw down greater than 0.3 ft, but due to large well volume, well will be sampled at stabilization.								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Project No.:

Sampling Date: 7/30/15

Sampler's Name: B. Fischer

Site/Location: Augusta

Well ID: MW-512BR

Total Depth (ft)[1]: 84

Depth to Water (ft): 8.34

Well Diameter (in): 6

Well Volume (gal) = 0.041d²h: 1116 (gal) / 422.4 (L)

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

Well Condition: Good

Pump Type/Model: Fluid Line

Tubing Material: LDPE

Pump Intake Depth (ft): 74

Start/Stop Purge Time: 0825

Purge Rate (L/min)[2]: 0.05

Total Purge Volume (L): 1.25

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (Inorganics including cyanide) ☐ Bailer (only used if necessary) ☐ Bladder pump = pump discharge (all analytes)

Sample Collection Time: 0900

Sample Purge Rate (L/min)[3]: 0.1

Sample ID: MW-512BR-20150730-01

QA/QC Collected? —

QA/QC I.D. —

Laboratory Analyses:

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0830	25.4	0.368	0.62	8.79	123.8	7.08	0.25	8.38	
0835	25.2	0.364	0.39	9.01	~~[illegible]~~ 92	7.10	0.50	8.39	
0840	25.1	0.365	0.53	9.12	63.2	5.16	0.75	8.40	
0845	25.2	0.366	0.33	9.14	43.2	4.75	1.00	8.40	
0850	25.0	0.365	0.32	9.20	17.6	5.30	1.25	8.40	
	Parameters stable, Well OK to Sample								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Project No.:

Sampling Date: 7/29/15

Sampler's Name: B. Fisher

Site/Location: Augusta

Well ID: MW-513BR

Total Depth (ft)[1]: 82.0

Depth to Water (ft): 9.10

Well Diameter (in): 6

Well Volume (gal) = 0.041d²h: 107 (gal) / 407.2 (L)

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

Well Condition: Good

Pump Type/Model: Peristaltic

Tubing Material: LDPE

Pump Intake Depth (ft): 67.0

Start/Stop Purge Time: 1625

Purge Rate (L/min)[2]: 0.05

Total Purge Volume (L): 1.50

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☐ Bladder pump = pump discharge (all analytes)

Sample Collection Time: 1700

Sample Purge Rate (L/min)[3]: 0.1

Sample ID: MW-513BR-20150729-01

QA/QC Collected? —

QA/QC I.D. —

Laboratory Analyses:

☑ pump head discharge (Inorganics including cyanide)

☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1630	30.0	0.329	53.1	10.47	-39.6	11.3	0.25	9.10	
1635	29.8	0.333	2.87	10.66	-31.4	3.85	0.50	9.11	
1640	29.9	0.334	2.97	10.69	-26.8	6.16	0.75	9.11	
1645	30.1	0.335	2.96	10.74	-24.8	3.85	1.00	9.11	
1650	29.7	0.337	2.84	10.77	-22.3	3.45	1.25	9.11	
1655	29.8	0.335	3.73	10.76	-16.4	2.67	1.50	9.11	
	Parameters	Stabilized,	Well	OK	to	Sample			
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SBSD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SBSD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Project No.: 0280910

Site/Location: Augusta GA

Sampling Date: 7/30/15

Sampler's Name: BM

Well ID: MW-601

Total Depth (ft)[1]: 27'

Depth to Water (ft): 7.76

Well Diameter (in): 2"

Well Volume (gal) = 0.041d²h:

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

Well Condition: Good

Pump Type/Model: Peristaltic

Tubing Material: LDPE

Pump Intake Depth (ft): ~22'

Start/Stop Purge Time: 17:25

Purge Rate (L/min)[2]: 0.1 L/min

Total Purge Volume (L): 5.5L

Sample Collection Time: 18:30

Sample Purge Rate (L/min)[3]: 0.1 L/min

Sample ID: MW-601-3007 2015-01

QA/QC Collected? Yes

QA/QC I.D. Dup-04-3007 2015-01

Laboratory Analyses: COT

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (inorganics including cyanide) ☐ Bailer (only used if necessary) ☐ Bladder pump = pump discharge (all analytes)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
17:30	25.7	0.56	1.81	6.11	256.6	89.9	0.5L	7.85	
17:35	25.8	0.56	0.50	6.07	258.7	92.6	1.0L	7.90	
17:40	26.4	0.56	0.42	6.06	250.9	92.5	1.5L	7.84	
17:45	26.2	0.58	0.38	6.06	247.3	73.3	2.0L	7.83	
17:50	26.1	0.59	0.34	6.06	243.8	54.4	2.5L	7.83	
17:55	26.4	0.59	0.32	6.07	240.6	46.6	3.0L	7.83	
18:00	26.3	0.59	0.65	6.05	239.2	40.5	3.5L	7.83	
18:05	26.3	0.59	0.33	6.07	237.2	39.3	4.0L	7.83	
18:10	25.9	0.59	0.30	6.07	236.0	35.7	4.5L	7.83	
18:15	26.0	0.59	0.30	6.07	235.3	33.5	5.0L	7.83	
18:20	25.7	0.59	0.30	6.07	234.1	35.5	5.5L	7.83	Turbidity stable, parameters stable, sample
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.

GROUND WATER SAMPLING LOG SHEET

ERM

Client: AGL

Project No.: 0230712

Sampling Date: 7/28/15

Site/Location: ~~Augusta~~ Augusta, GA

Sampler's Name: W. Virgo

Well ID: MW-602

Total Depth (ft)[1]: 32'

Depth to Water (ft): 8.10'

Well Diameter (in): 2"

Well Volume (gal) = 0.041d²h: 3.9 gal / 14.8 L

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

Well Condition: Good

Pump Type/Model: Peristaltic / Pegasus

Tubing Material: LDPE

Pump Intake Depth (ft): ~27'

Start/Stop Purge Time: 0944 / 1044

Purge Rate (L/min)[2]: ~~~40~~ 0.1 L/min ~0.05 L/min

Total Purge Volume (L): 3.5 L

Sample Collection Time: 1047

Sample Purge Rate (L/min)[3]: ~0.25 L/min

Sample ID: MW-602-20150728-01

QA/QC Collected? NO

QA/QC I.D. —

Laboratory Analyses: COIs

Sampling Method (check all that apply): ☑ soda straw (VOCs) ☐ vacuum jug (SVOCs) ☑ pump head discharge (inorganics including cyanide) ☐ Bladder pump = pump discharge (all analytes) ☐ Bailer (only used if necessary)

Time	Temp. (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	pH (SU)	ORP (mV)	Turbidity (NTUs)	Purge Volume (L)	H_2O Depth (ft)	Notes (Water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0954	23.9	0.616	1.03	5.97	-63.3	88.6	1.0	8.31	Weather: Sunny, Hot, Humid
0959	25.9	0.617	1.17	5.97	-59.6	70.0	1.25	8.21	Purge rate decreased to
1004	28.1	0.617	1.11	5.97	-55.3	72.2	1.50	8.21	0.05 L/min to minimize
1009	29.1	0.616	0.99	5.96	-52.5	69.8	1.75	8.21	drawdown
1014	29.4	0.617	0.92	5.96	-51.5	59.9	2.00	8.21	
1019	29.9	0.618	0.84	5.96	-50.0	54.1	2.25	8.21	
1024	29.9	0.620	0.80	5.96	-46.7	41.2	2.50	8.21	
1029	30.1	0.619	0.81	5.95	-47.5	45.7	2.75	8.21	
1034	29.5	0.623	0.79	5.94	-47.4	36.1	3.00	8.21	
1039	29.3	0.619	0.74	5.94	-47.0	38.6	3.25	8.21	
1044	29.1	0.620	0.70	5.94	-46.9	34.1	3.50	8.21	
	Well Parameters stable @ 1044 w/ turbidity w/in 10% over 3 readings								
	Well Sampled @ 1047								
Stabilizing Criteria[5]	+/- 1°C	+/- 3%	+/- 10% (see note below)[7]	+/- 0.1 unit	+/- 10 mV (see note below)[8]	+/- 10% or <10 NTUs	(see note below)[4]	(see note below)[6]	

(1) - Do not measure depth to bottom of well until after purging and sampling to reduce resuspending fines that may be resting on the well bottom.
(2) - Purge rate to be 0.5 lpm or less.
(3) - Sampling rate to be 0.25 lpm or less.
(4) - Field parameter measurements to be recorded every 3 to 5 minutes.
(5) - Stabilization criteria based on three most recent consecutive measurements.
(6) - Monitor DTW every 5 min. Well drawdown to be 0.3 ft or less. Purge/sampling rate to be lowered as necessary to keep drawdown below 0.3 ft.
(7) - DO is not a stabilization criterion for the "Groundwater sampling" SESD Standard Operating Procedure.
(8) - ORP is not a stabilization criterion for the "Groundwater sampling," SESD Standard Operating Procedure.

APPENDIX B

LABORATORY ANALYTICAL REPORTS

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 06, 2015

Greg Jirak
ERM-Southeast
3200 Windy Hill Rd
Atlanta GA 30339

TEL: (678) 486-2700
FAX: (404) 745-0103

RE: AGL Augusta

Dear Greg Jirak: Order No: 1507O67

Analytical Environmental Services, Inc. received 31 samples on July 29, 2015 6:13 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' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

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.

Mirzeta Kararic

Mirzeta Kararic
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3080 Presidential Drive, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1507067

Date: 7/27/15 Page 1 of 3

COMPANY: ERM

ADDRESS: 3200 Windy Hill Rd SE Ste 1500W Atlanta, GA 30339

PHONE: 678 486 2700

FAX:

SAMPLED BY: W. Virgo, B. Fisher, A. Neal, B. Mitchell

SIGNATURE:

ANALYSIS REQUESTED: 8260B VOCs; 8270C SVOCs; 6010B/6020B Metals; 7470A Mercury; 9012A Cyanide

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	8260B VOCs (H+I)	8270C SVOCs (N)	6010B/6020B Metals (S/M+I)	7470A Mercury (H+I)	9012A Cyanide	REMARKS	No # of Containers
1	MW-207-20150727-01	7/27/15	1555	x		GW	2	2	1	1			6
2	MS-MW-207-20150727-01		1555										
3	MSD-MW-207-20150727-01		1555										
4	MW-310BR-20150727-01		180										
5	MW-320-20150727-01		1925										
6	MW-22-20150728-01	7/28/15	0905	x									
7	MW-306SAP-20150728-01		0905										
8	MW-325-20150728-01		0908										
9	MW-303-20150728-01		0930										
10	MW-214-20150728-01		1030										
11	MW-306D-20150728-01		1030										
12	MW-602-20150728-01		1027										
13	MW-309BR-20150728-01		1100										
14	MW-202DR-20150728-01		1210										

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	7/29/15 1813	1:	7/29/15 6:13
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: ABL Augusta
PROJECT #: 0230712 PH 052
SITE ADDRESS: Augusta, GA
SEND REPORT TO: Greg.Sirk@ERM.com
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers 84/214

Turnaround Time 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? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
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
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 15G7067

Date: 7/28/15 Page 2 of 3

COMPANY: ERM

ADDRESS: 3200 Windy Hill Rd SE Ste 1500W Atlanta, GA, 30339

PHONE: 678 486 2700

FAX:

SAMPLED BY: W. Virgo, A. Neal, B. Fisher, B. Mitchell

SIGNATURE:

ANALYSIS REQUESTED: 8260B VOCs; 8270C SVOCs; 6020B Total 1 Metals; 7470A Mercury; 9012A Cyanide

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	HCL	NA	HNO3	NaOH	REMARKS	No # of Containers
1	MW-402D-20150728-01	7/28/15	1210	X		GW	2	2	1	1		6
2	MW-307D-20150728-01		1235									
3	MW-307SAP-20150728-01		1450									
4	MW-402S-20150728-01		1452									
5	~~MS-402S~~ MW-MS-MW-402S-20150728-01		1452									
6	MSD-MW-402S-20150728-01		1452									
7	MW-21-20150728-01		1545									
8	MW-319-20150728-01		1600									
9	MS-MW-319-20150728-01		1600									
10	MSD-MW-319-20150728-01		1600									
11	MW-401SAP-20150728-01		1806									
12	MW-310SAP-20150728-01		1630									
13	MW-213-20150728-01	✓	1915									
14	MW-311-20150729-01	7/29/15	0800	✓		✓	✓	✓	✓	✓		✓

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	7/29/15 1813	1:	7/29/15 6:13
2:		2:	
3:		3:	

PROJECT INFORMATION
PROJECT NAME: AGL Augusta
PROJECT #: 0230712
SITE ADDRESS: Augusta, GA
SEND REPORT TO: Greg.Jirak@ERM.com
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers: 84/214

Turnaround Time Request
- ✓ Standard 5 Business Days
- 2 Business Day Rush
- Next Business Day Rush
- Same Day Rush (auth req.)
- Other

STATE PROGRAM (if any):
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
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
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 15070107

Date: 7/29/15 Page 3 of 3

COMPANY: ERM

ADDRESS: 3200 Windy Hill Rd SE Ste 1500W Atlanta, GA 30339

PHONE: 678-486 2700

FAX:

SAMPLED BY: W. Vigo, B. Mitchell, B. Fisher, A. Neel

SIGNATURE:

ANALYSIS REQUESTED: 8260B, 8270C 3010B 7470A, 9012A

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	HCL	NA	HNO3	NaOH									REMARKS	No # of Containers
							PRESERVATION (See codes)													
1	MW-408S-20150729-01	7/29/15	0836	X		GW	2	2	1	1										6
2	MW-324-20150729-01		0850																	
3	MW-306BR-20150729-01		0900																	
4	MW-203-20150729-01		0915																	
5	MW-408DR-20150729-01		1031																	
6	MW-313-20150729-01		1040																	
7	MW-504BR-20150729-01		1045																	
8	TB-01-20150729-01		—			W	2													2
9	TB-02-20150729-01		—			W	2													2
10																				
11																				
12																				
13																				
14																				

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	7/29/15 1813	1:	7/29/15 6:15
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: AGL Augusta
PROJECT #: 0230712
SITE ADDRESS: Augusta, GA
SEND REPORT TO: Greg.Jirak@ERM.com
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers 46/214

Turnaround Time Request
- ⊗ Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

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

Client: ERM-Southeast
Project: AGL Augusta
Lab ID: 1507O67

Case Narrative

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, sample 1507O67-021A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Benzene value for the QC samples 1507O67-021AMSD is "E" qualified indicating estimated values over linear calibration range due to the level of target analyte present in the unspiked sample.

Analytical Environmental Services, Inc

Date: 6-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-207-20150727-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/27/2015 3:55:00 PM
Lab ID:	1507O67-001A	**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	210931	1	08/03/2015 11:11	NP
Benzene	BRL	5.0		ug/L	210931	1	08/03/2015 11:11	NP
Carbon disulfide	BRL	5.0		ug/L	210931	1	08/03/2015 11:11	NP
Ethylbenzene	BRL	5.0		ug/L	210931	1	08/03/2015 11:11	NP
Methylene chloride	BRL	5.0		ug/L	210931	1	08/03/2015 11:11	NP
Toluene	BRL	5.0		ug/L	210931	1	08/03/2015 11:11	NP
Trichloroethene	BRL	5.0		ug/L	210931	1	08/03/2015 11:11	NP
Xylenes, Total	BRL	5.0		ug/L	210931	1	08/03/2015 11:11	NP
Surr: 4-Bromofluorobenzene	80	70.6-123		%REC	210931	1	08/03/2015 11:11	NP
Surr: Dibromofluoromethane	101	78.7-124		%REC	210931	1	08/03/2015 11:11	NP
Surr: Toluene-d8	99.1	81.3-120		%REC	210931	1	08/03/2015 11:11	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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-207-20150727-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/27/2015 3:55:00 PM
Lab ID:	1507O67-001B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	210977	1	08/03/2015 16:50	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-207-20150727-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/27/2015 3:55:00 PM
Lab ID:	1507O67-001C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210852	1	07/31/2015 12:36	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210814	1	08/03/2015 14:13	TA
Arsenic	BRL	0.0500		mg/L	210814	1	08/03/2015 14:13	TA
Barium	0.305	0.0200		mg/L	210814	1	08/03/2015 14:13	TA
Beryllium	BRL	0.0100		mg/L	210814	1	08/03/2015 14:13	TA
Cadmium	BRL	0.0050		mg/L	210814	1	08/03/2015 14:13	TA
Chromium	BRL	0.0100		mg/L	210814	1	08/03/2015 14:13	TA
Copper	BRL	0.0100		mg/L	210814	1	08/03/2015 14:13	TA
Lead	BRL	0.0100		mg/L	210814	1	08/03/2015 14:13	TA
Nickel	BRL	0.0200		mg/L	210814	1	08/04/2015 14:05	TA
Selenium	BRL	0.0200		mg/L	210814	1	08/03/2015 14:13	TA
Thallium	BRL	0.0200		mg/L	210814	1	08/03/2015 14:13	TA
Vanadium	BRL	0.0100		mg/L	210814	1	08/03/2015 14:13	TA
Zinc	BRL	0.0200		mg/L	210814	1	08/03/2015 14:13	TA

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-207-20150727-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/27/2015 3:55:00 PM
Lab ID:	1507O67-001D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210794	1	07/31/2015 17:13	YH
Acenaphthylene	BRL	1.0		ug/L	210794	1	07/31/2015 17:13	YH
Acenaphthene	BRL	0.50		ug/L	210794	1	07/31/2015 17:13	YH
Fluorene	BRL	0.10		ug/L	210794	1	07/31/2015 17:13	YH
Phenanthrene	BRL	0.050		ug/L	210794	1	07/31/2015 17:13	YH
Anthracene	BRL	0.050		ug/L	210794	1	07/31/2015 17:13	YH
Fluoranthene	BRL	0.10		ug/L	210794	1	07/31/2015 17:13	YH
Pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 17:13	YH
Benz(a)anthracene	BRL	0.050		ug/L	210794	1	07/31/2015 17:13	YH
Chrysene	BRL	0.050		ug/L	210794	1	07/31/2015 17:13	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210794	1	07/31/2015 17:13	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210794	1	07/31/2015 17:13	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 17:13	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 17:13	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210794	1	07/31/2015 17:13	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210794	1	07/31/2015 17:13	YH
Surr: 4-Terphenyl-d14	97.5	55.4-136		%REC	210794	1	07/31/2015 17:13	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-310BR-20150727-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/27/2015 6:10:00 PM
Lab ID:	1507O67-002A	**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	210931	1	08/03/2015 18:11	NP
Benzene	BRL	5.0		ug/L	210931	1	08/03/2015 18:11	NP
Carbon disulfide	BRL	5.0		ug/L	210931	1	08/03/2015 18:11	NP
Ethylbenzene	BRL	5.0		ug/L	210931	1	08/03/2015 18:11	NP
Methylene chloride	BRL	5.0		ug/L	210931	1	08/03/2015 18:11	NP
Toluene	BRL	5.0		ug/L	210931	1	08/03/2015 18:11	NP
Trichloroethene	BRL	5.0		ug/L	210931	1	08/03/2015 18:11	NP
Xylenes, Total	BRL	5.0		ug/L	210931	1	08/03/2015 18:11	NP
Surr: 4-Bromofluorobenzene	76.7	70.6-123		%REC	210931	1	08/03/2015 18:11	NP
Surr: Dibromofluoromethane	106	78.7-124		%REC	210931	1	08/03/2015 18:11	NP
Surr: Toluene-d8	101	81.3-120		%REC	210931	1	08/03/2015 18:11	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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-310BR-20150727-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/27/2015 6:10:00 PM
Lab ID:	1507O67-002B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	210977	1	08/03/2015 16:50	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-310BR-20150727-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/27/2015 6:10:00 PM
Lab ID:	1507O67-002C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210852	1	07/31/2015 12:43	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210814	1	08/03/2015 14:51	TA
Arsenic	BRL	0.0500		mg/L	210814	1	08/03/2015 14:51	TA
Barium	0.479	0.0200		mg/L	210814	1	08/03/2015 14:51	TA
Beryllium	BRL	0.0100		mg/L	210814	1	08/03/2015 14:51	TA
Cadmium	BRL	0.0050		mg/L	210814	1	08/03/2015 14:51	TA
Chromium	BRL	0.0100		mg/L	210814	1	08/03/2015 14:51	TA
Copper	BRL	0.0100		mg/L	210814	1	08/03/2015 14:51	TA
Lead	BRL	0.0100		mg/L	210814	1	08/03/2015 14:51	TA
Nickel	BRL	0.0200		mg/L	210814	1	08/03/2015 14:51	TA
Selenium	BRL	0.0200		mg/L	210814	1	08/03/2015 14:51	TA
Thallium	BRL	0.0200		mg/L	210814	1	08/03/2015 14:51	TA
Vanadium	BRL	0.0100		mg/L	210814	1	08/03/2015 14:51	TA
Zinc	BRL	0.0200		mg/L	210814	1	08/03/2015 14:51	TA

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-310BR-20150727-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/27/2015 6:10:00 PM
Lab ID:	1507O67-002D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210794	1	07/31/2015 17:40	YH
Acenaphthylene	BRL	1.0		ug/L	210794	1	07/31/2015 17:40	YH
Acenaphthene	BRL	0.50		ug/L	210794	1	07/31/2015 17:40	YH
Fluorene	BRL	0.10		ug/L	210794	1	07/31/2015 17:40	YH
Phenanthrene	BRL	0.050		ug/L	210794	1	07/31/2015 17:40	YH
Anthracene	BRL	0.050		ug/L	210794	1	07/31/2015 17:40	YH
Fluoranthene	BRL	0.10		ug/L	210794	1	07/31/2015 17:40	YH
Pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 17:40	YH
Benz(a)anthracene	BRL	0.050		ug/L	210794	1	07/31/2015 17:40	YH
Chrysene	BRL	0.050		ug/L	210794	1	07/31/2015 17:40	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210794	1	07/31/2015 17:40	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210794	1	07/31/2015 17:40	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 17:40	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 17:40	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210794	1	07/31/2015 17:40	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210794	1	07/31/2015 17:40	YH
Surr: 4-Terphenyl-d14	93	55.4-136		%REC	210794	1	07/31/2015 17:40	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-320-20150727-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/27/2015 7:25:00 PM
Lab ID:	1507O67-003A	**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	210931	1	08/03/2015 18:34	NP
Benzene	BRL	5.0		ug/L	210931	1	08/03/2015 18:34	NP
Carbon disulfide	BRL	5.0		ug/L	210931	1	08/03/2015 18:34	NP
Ethylbenzene	BRL	5.0		ug/L	210931	1	08/03/2015 18:34	NP
Methylene chloride	BRL	5.0		ug/L	210931	1	08/03/2015 18:34	NP
Toluene	BRL	5.0		ug/L	210931	1	08/03/2015 18:34	NP
Trichloroethene	BRL	5.0		ug/L	210931	1	08/03/2015 18:34	NP
Xylenes, Total	BRL	5.0		ug/L	210931	1	08/03/2015 18:34	NP
Surr: 4-Bromofluorobenzene	78.4	70.6-123		%REC	210931	1	08/03/2015 18:34	NP
Surr: Dibromofluoromethane	103	78.7-124		%REC	210931	1	08/03/2015 18:34	NP
Surr: Toluene-d8	98.9	81.3-120		%REC	210931	1	08/03/2015 18:34	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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-320-20150727-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/27/2015 7:25:00 PM
Lab ID:	1507O67-003B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	210977	1	08/03/2015 16:50	PF

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
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B	Analyte detected in the associated method blank	<	Less than Result value
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Analytical Environmental Services, Inc

Date: 6-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-320-20150727-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/27/2015 7:25:00 PM
Lab ID:	1507O67-003C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210852	1	07/31/2015 12:45	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210814	1	08/03/2015 14:54	TA
Arsenic	BRL	0.0500		mg/L	210814	1	08/03/2015 14:54	TA
Barium	0.267	0.0200		mg/L	210814	1	08/03/2015 14:54	TA
Beryllium	BRL	0.0100		mg/L	210814	1	08/03/2015 14:54	TA
Cadmium	BRL	0.0050		mg/L	210814	1	08/03/2015 14:54	TA
Chromium	BRL	0.0100		mg/L	210814	1	08/03/2015 14:54	TA
Copper	BRL	0.0100		mg/L	210814	1	08/03/2015 14:54	TA
Lead	BRL	0.0100		mg/L	210814	1	08/03/2015 14:54	TA
Nickel	BRL	0.0200		mg/L	210814	1	08/04/2015 14:08	TA
Selenium	BRL	0.0200		mg/L	210814	1	08/03/2015 14:54	TA
Thallium	BRL	0.0200		mg/L	210814	1	08/03/2015 14:54	TA
Vanadium	BRL	0.0100		mg/L	210814	1	08/03/2015 14:54	TA
Zinc	BRL	0.0200		mg/L	210814	1	08/03/2015 14:54	TA

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
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Analytical Environmental Services, Inc

Date: 6-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-320-20150727-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/27/2015 7:25:00 PM
Lab ID:	1507O67-003D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210794	1	07/31/2015 18:07	YH
Acenaphthylene	BRL	1.0		ug/L	210794	1	07/31/2015 18:07	YH
Acenaphthene	BRL	0.50		ug/L	210794	1	07/31/2015 18:07	YH
Fluorene	BRL	0.10		ug/L	210794	1	07/31/2015 18:07	YH
Phenanthrene	BRL	0.050		ug/L	210794	1	07/31/2015 18:07	YH
Anthracene	BRL	0.050		ug/L	210794	1	07/31/2015 18:07	YH
Fluoranthene	BRL	0.10		ug/L	210794	1	07/31/2015 18:07	YH
Pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 18:07	YH
Benz(a)anthracene	BRL	0.050		ug/L	210794	1	07/31/2015 18:07	YH
Chrysene	BRL	0.050		ug/L	210794	1	07/31/2015 18:07	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210794	1	07/31/2015 18:07	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210794	1	07/31/2015 18:07	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 18:07	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 18:07	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210794	1	07/31/2015 18:07	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210794	1	07/31/2015 18:07	YH
Surr: 4-Terphenyl-d14	92.9	55.4-136		%REC	210794	1	07/31/2015 18:07	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-22-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 9:05:00 AM
Lab ID:	1507O67-004A	**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	210931	1	08/03/2015 18:57	NP
Benzene	BRL	5.0		ug/L	210931	1	08/03/2015 18:57	NP
Carbon disulfide	BRL	5.0		ug/L	210931	1	08/03/2015 18:57	NP
Ethylbenzene	BRL	5.0		ug/L	210931	1	08/03/2015 18:57	NP
Methylene chloride	BRL	5.0		ug/L	210931	1	08/03/2015 18:57	NP
Toluene	BRL	5.0		ug/L	210931	1	08/03/2015 18:57	NP
Trichloroethene	BRL	5.0		ug/L	210931	1	08/03/2015 18:57	NP
Xylenes, Total	BRL	5.0		ug/L	210931	1	08/03/2015 18:57	NP
Surr: 4-Bromofluorobenzene	80.2	70.6-123		%REC	210931	1	08/03/2015 18:57	NP
Surr: Dibromofluoromethane	103	78.7-124		%REC	210931	1	08/03/2015 18:57	NP
Surr: Toluene-d8	97.7	81.3-120		%REC	210931	1	08/03/2015 18:57	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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-22-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 9:05:00 AM
Lab ID:	1507O67-004B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	210977	1	08/03/2015 16:50	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-22-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 9:05:00 AM
Lab ID:	1507O67-004C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210852	1	07/31/2015 12:51	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210814	1	08/03/2015 14:57	TA
Arsenic	BRL	0.0500		mg/L	210814	1	08/03/2015 14:57	TA
Barium	0.0349	0.0200		mg/L	210814	1	08/03/2015 14:57	TA
Beryllium	BRL	0.0100		mg/L	210814	1	08/03/2015 14:57	TA
Cadmium	BRL	0.0050		mg/L	210814	1	08/03/2015 14:57	TA
Chromium	BRL	0.0100		mg/L	210814	1	08/03/2015 14:57	TA
Copper	BRL	0.0100		mg/L	210814	1	08/03/2015 14:57	TA
Lead	BRL	0.0100		mg/L	210814	1	08/03/2015 14:57	TA
Nickel	BRL	0.0200		mg/L	210814	1	08/03/2015 14:57	TA
Selenium	BRL	0.0200		mg/L	210814	1	08/03/2015 14:57	TA
Thallium	BRL	0.0200		mg/L	210814	1	08/03/2015 14:57	TA
Vanadium	BRL	0.0100		mg/L	210814	1	08/03/2015 14:57	TA
Zinc	BRL	0.0200		mg/L	210814	1	08/03/2015 14:57	TA

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-22-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 9:05:00 AM
Lab ID:	1507O67-004D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210794	1	07/31/2015 18:34	YH
Acenaphthylene	BRL	1.0		ug/L	210794	1	07/31/2015 18:34	YH
Acenaphthene	BRL	0.50		ug/L	210794	1	07/31/2015 18:34	YH
Fluorene	BRL	0.10		ug/L	210794	1	07/31/2015 18:34	YH
Phenanthrene	BRL	0.050		ug/L	210794	1	07/31/2015 18:34	YH
Anthracene	BRL	0.050		ug/L	210794	1	07/31/2015 18:34	YH
Fluoranthene	BRL	0.10		ug/L	210794	1	07/31/2015 18:34	YH
Pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 18:34	YH
Benz(a)anthracene	BRL	0.050		ug/L	210794	1	07/31/2015 18:34	YH
Chrysene	BRL	0.050		ug/L	210794	1	07/31/2015 18:34	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210794	1	07/31/2015 18:34	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210794	1	07/31/2015 18:34	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 18:34	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 18:34	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210794	1	07/31/2015 18:34	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210794	1	07/31/2015 18:34	YH
Surr: 4-Terphenyl-d14	100	55.4-136		%REC	210794	1	07/31/2015 18:34	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-306SAP-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 9:05:00 AM
Lab ID:	1507O67-005A	**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	210931	1	08/03/2015 19:20	NP
Benzene	BRL	5.0		ug/L	210931	1	08/03/2015 19:20	NP
Carbon disulfide	BRL	5.0		ug/L	210931	1	08/03/2015 19:20	NP
Ethylbenzene	BRL	5.0		ug/L	210931	1	08/03/2015 19:20	NP
Methylene chloride	BRL	5.0		ug/L	210931	1	08/03/2015 19:20	NP
Toluene	BRL	5.0		ug/L	210931	1	08/03/2015 19:20	NP
Trichloroethene	BRL	5.0		ug/L	210931	1	08/03/2015 19:20	NP
Xylenes, Total	BRL	5.0		ug/L	210931	1	08/03/2015 19:20	NP
Surr: 4-Bromofluorobenzene	79.3	70.6-123		%REC	210931	1	08/03/2015 19:20	NP
Surr: Dibromofluoromethane	102	78.7-124		%REC	210931	1	08/03/2015 19:20	NP
Surr: Toluene-d8	99	81.3-120		%REC	210931	1	08/03/2015 19:20	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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-306SAP-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 9:05:00 AM
Lab ID:	1507O67-005B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	210977	1	08/03/2015 16:50	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-306SAP-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 9:05:00 AM
Lab ID:	1507O67-005C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210852	1	07/31/2015 12:53	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210814	1	08/03/2015 15:00	TA
Arsenic	BRL	0.0500		mg/L	210814	1	08/03/2015 15:00	TA
Barium	0.682	0.0200		mg/L	210814	1	08/03/2015 15:00	TA
Beryllium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:00	TA
Cadmium	BRL	0.0050		mg/L	210814	1	08/03/2015 15:00	TA
Chromium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:00	TA
Copper	BRL	0.0100		mg/L	210814	1	08/03/2015 15:00	TA
Lead	BRL	0.0100		mg/L	210814	1	08/03/2015 15:00	TA
Nickel	0.306	0.0200		mg/L	210814	1	08/03/2015 15:00	TA
Selenium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:00	TA
Thallium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:00	TA
Vanadium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:00	TA
Zinc	BRL	0.0200		mg/L	210814	1	08/03/2015 15:00	TA

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-306SAP-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 9:05:00 AM
Lab ID:	1507O67-005D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210794	1	07/31/2015 19:01	YH
Acenaphthylene	BRL	1.0		ug/L	210794	1	07/31/2015 19:01	YH
Acenaphthene	BRL	0.50		ug/L	210794	1	07/31/2015 19:01	YH
Fluorene	BRL	0.10		ug/L	210794	1	07/31/2015 19:01	YH
Phenanthrene	BRL	0.050		ug/L	210794	1	07/31/2015 19:01	YH
Anthracene	BRL	0.050		ug/L	210794	1	07/31/2015 19:01	YH
Fluoranthene	BRL	0.10		ug/L	210794	1	07/31/2015 19:01	YH
Pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 19:01	YH
Benz(a)anthracene	BRL	0.050		ug/L	210794	1	07/31/2015 19:01	YH
Chrysene	BRL	0.050		ug/L	210794	1	07/31/2015 19:01	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210794	1	07/31/2015 19:01	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210794	1	07/31/2015 19:01	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 19:01	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 19:01	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210794	1	07/31/2015 19:01	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210794	1	07/31/2015 19:01	YH
Surr: 4-Terphenyl-d14	99.4	55.4-136		%REC	210794	1	07/31/2015 19:01	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-325-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 9:08:00 AM
Lab ID:	1507O67-006A	**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	210931	1	08/03/2015 19:42	NP
Benzene	BRL	5.0		ug/L	210931	1	08/03/2015 19:42	NP
Carbon disulfide	BRL	5.0		ug/L	210931	1	08/03/2015 19:42	NP
Ethylbenzene	BRL	5.0		ug/L	210931	1	08/03/2015 19:42	NP
Methylene chloride	BRL	5.0		ug/L	210931	1	08/03/2015 19:42	NP
Toluene	BRL	5.0		ug/L	210931	1	08/03/2015 19:42	NP
Trichloroethene	BRL	5.0		ug/L	210931	1	08/03/2015 19:42	NP
Xylenes, Total	BRL	5.0		ug/L	210931	1	08/03/2015 19:42	NP
Surr: 4-Bromofluorobenzene	78.7	70.6-123		%REC	210931	1	08/03/2015 19:42	NP
Surr: Dibromofluoromethane	103	78.7-124		%REC	210931	1	08/03/2015 19:42	NP
Surr: Toluene-d8	101	81.3-120		%REC	210931	1	08/03/2015 19:42	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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-325-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 9:08:00 AM
Lab ID:	1507O67-006B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	210977	1	08/03/2015 16:50	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-325-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 9:08:00 AM
Lab ID:	1507O67-006C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210852	1	07/31/2015 12:55	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210814	1	08/03/2015 15:03	TA
Arsenic	BRL	0.0500		mg/L	210814	1	08/03/2015 15:03	TA
Barium	0.0691	0.0200		mg/L	210814	1	08/03/2015 15:03	TA
Beryllium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:03	TA
Cadmium	0.0122	0.0050		mg/L	210814	1	08/03/2015 15:03	TA
Chromium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:03	TA
Copper	BRL	0.0100		mg/L	210814	1	08/03/2015 15:03	TA
Lead	BRL	0.0100		mg/L	210814	1	08/03/2015 15:03	TA
Nickel	BRL	0.0200		mg/L	210814	1	08/03/2015 15:03	TA
Selenium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:03	TA
Thallium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:03	TA
Vanadium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:03	TA
Zinc	0.127	0.0200		mg/L	210814	1	08/03/2015 15:03	TA

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-325-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 9:08:00 AM
Lab ID:	1507O67-006D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	0.76	0.50		ug/L	210794	1	07/31/2015 19:29	YH
Acenaphthylene	BRL	1.0		ug/L	210794	1	07/31/2015 19:29	YH
Acenaphthene	BRL	0.50		ug/L	210794	1	07/31/2015 19:29	YH
Fluorene	BRL	0.10		ug/L	210794	1	07/31/2015 19:29	YH
Phenanthrene	BRL	0.050		ug/L	210794	1	07/31/2015 19:29	YH
Anthracene	BRL	0.050		ug/L	210794	1	07/31/2015 19:29	YH
Fluoranthene	BRL	0.10		ug/L	210794	1	07/31/2015 19:29	YH
Pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 19:29	YH
Benz(a)anthracene	BRL	0.050		ug/L	210794	1	07/31/2015 19:29	YH
Chrysene	BRL	0.050		ug/L	210794	1	07/31/2015 19:29	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210794	1	07/31/2015 19:29	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210794	1	07/31/2015 19:29	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 19:29	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 19:29	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210794	1	07/31/2015 19:29	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210794	1	07/31/2015 19:29	YH
Surr: 4-Terphenyl-d14	99.3	55.4-136		%REC	210794	1	07/31/2015 19:29	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-303-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 9:30:00 AM
Lab ID:	1507O67-007A	**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	210931	1	08/03/2015 20:07	NP
Benzene	BRL	5.0		ug/L	210931	1	08/03/2015 20:07	NP
Carbon disulfide	BRL	5.0		ug/L	210931	1	08/03/2015 20:07	NP
Ethylbenzene	BRL	5.0		ug/L	210931	1	08/03/2015 20:07	NP
Methylene chloride	BRL	5.0		ug/L	210931	1	08/03/2015 20:07	NP
Toluene	BRL	5.0		ug/L	210931	1	08/03/2015 20:07	NP
Trichloroethene	BRL	5.0		ug/L	210931	1	08/03/2015 20:07	NP
Xylenes, Total	BRL	5.0		ug/L	210931	1	08/03/2015 20:07	NP
Surr: 4-Bromofluorobenzene	77.3	70.6-123		%REC	210931	1	08/03/2015 20:07	NP
Surr: Dibromofluoromethane	104	78.7-124		%REC	210931	1	08/03/2015 20:07	NP
Surr: Toluene-d8	98.4	81.3-120		%REC	210931	1	08/03/2015 20:07	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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-303-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 9:30:00 AM
Lab ID:	1507O67-007B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	210977	1	08/03/2015 16:50	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-303-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 9:30:00 AM
Lab ID:	1507O67-007C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210852	1	07/31/2015 12:57	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210814	1	08/03/2015 15:06	TA
Arsenic	BRL	0.0500		mg/L	210814	1	08/03/2015 15:06	TA
Barium	0.0916	0.0200		mg/L	210814	1	08/03/2015 15:06	TA
Beryllium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:06	TA
Cadmium	BRL	0.0050		mg/L	210814	1	08/03/2015 15:06	TA
Chromium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:06	TA
Copper	BRL	0.0100		mg/L	210814	1	08/03/2015 15:06	TA
Lead	BRL	0.0100		mg/L	210814	1	08/03/2015 15:06	TA
Nickel	BRL	0.0200		mg/L	210814	1	08/04/2015 14:11	TA
Selenium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:06	TA
Thallium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:06	TA
Vanadium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:06	TA
Zinc	BRL	0.0200		mg/L	210814	1	08/03/2015 15:06	TA

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-303-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 9:30:00 AM
Lab ID:	1507O67-007D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210794	1	07/31/2015 19:56	YH
Acenaphthylene	BRL	1.0		ug/L	210794	1	07/31/2015 19:56	YH
Acenaphthene	BRL	0.50		ug/L	210794	1	07/31/2015 19:56	YH
Fluorene	BRL	0.10		ug/L	210794	1	07/31/2015 19:56	YH
Phenanthrene	0.060	0.050		ug/L	210794	1	07/31/2015 19:56	YH
Anthracene	BRL	0.050		ug/L	210794	1	07/31/2015 19:56	YH
Fluoranthene	BRL	0.10		ug/L	210794	1	07/31/2015 19:56	YH
Pyrene	0.11	0.050		ug/L	210794	1	07/31/2015 19:56	YH
Benz(a)anthracene	BRL	0.050		ug/L	210794	1	07/31/2015 19:56	YH
Chrysene	BRL	0.050		ug/L	210794	1	07/31/2015 19:56	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210794	1	07/31/2015 19:56	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210794	1	07/31/2015 19:56	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 19:56	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 19:56	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210794	1	07/31/2015 19:56	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210794	1	07/31/2015 19:56	YH
Surr: 4-Terphenyl-d14	93.1	55.4-136		%REC	210794	1	07/31/2015 19:56	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-214-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 10:30:00 AM
Lab ID:	1507O67-008A	**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	210931	1	08/03/2015 20:31	NP
Benzene	BRL	5.0		ug/L	210931	1	08/03/2015 20:31	NP
Carbon disulfide	BRL	5.0		ug/L	210931	1	08/03/2015 20:31	NP
Ethylbenzene	BRL	5.0		ug/L	210931	1	08/03/2015 20:31	NP
Methylene chloride	BRL	5.0		ug/L	210931	1	08/03/2015 20:31	NP
Toluene	BRL	5.0		ug/L	210931	1	08/03/2015 20:31	NP
Trichloroethene	BRL	5.0		ug/L	210931	1	08/03/2015 20:31	NP
Xylenes, Total	BRL	5.0		ug/L	210931	1	08/03/2015 20:31	NP
Surr: 4-Bromofluorobenzene	78.8	70.6-123		%REC	210931	1	08/03/2015 20:31	NP
Surr: Dibromofluoromethane	107	78.7-124		%REC	210931	1	08/03/2015 20:31	NP
Surr: Toluene-d8	101	81.3-120		%REC	210931	1	08/03/2015 20:31	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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-214-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 10:30:00 AM
Lab ID:	1507O67-008B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	210977	1	08/03/2015 16:50	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-214-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 10:30:00 AM
Lab ID:	1507O67-008C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210852	1	07/31/2015 12:59	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210814	1	08/03/2015 15:09	TA
Arsenic	BRL	0.0500		mg/L	210814	1	08/03/2015 15:09	TA
Barium	0.379	0.0200		mg/L	210814	1	08/03/2015 15:09	TA
Beryllium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:09	TA
Cadmium	0.0076	0.0050		mg/L	210814	1	08/03/2015 15:09	TA
Chromium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:09	TA
Copper	BRL	0.0100		mg/L	210814	1	08/03/2015 15:09	TA
Lead	BRL	0.0100		mg/L	210814	1	08/03/2015 15:09	TA
Nickel	BRL	0.0200		mg/L	210814	1	08/03/2015 15:09	TA
Selenium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:09	TA
Thallium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:09	TA
Vanadium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:09	TA
Zinc	0.0323	0.0200		mg/L	210814	1	08/03/2015 15:09	TA

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-214-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 10:30:00 AM
Lab ID:	1507O67-008D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210794	1	07/31/2015 20:24	YH
Acenaphthylene	BRL	1.0		ug/L	210794	1	07/31/2015 20:24	YH
Acenaphthene	BRL	0.50		ug/L	210794	1	07/31/2015 20:24	YH
Fluorene	BRL	0.10		ug/L	210794	1	07/31/2015 20:24	YH
Phenanthrene	BRL	0.050		ug/L	210794	1	07/31/2015 20:24	YH
Anthracene	BRL	0.050		ug/L	210794	1	07/31/2015 20:24	YH
Fluoranthene	BRL	0.10		ug/L	210794	1	07/31/2015 20:24	YH
Pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 20:24	YH
Benz(a)anthracene	BRL	0.050		ug/L	210794	1	07/31/2015 20:24	YH
Chrysene	BRL	0.050		ug/L	210794	1	07/31/2015 20:24	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210794	1	07/31/2015 20:24	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210794	1	07/31/2015 20:24	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 20:24	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 20:24	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210794	1	07/31/2015 20:24	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210794	1	07/31/2015 20:24	YH
Surr: 4-Terphenyl-d14	83.5	55.4-136		%REC	210794	1	07/31/2015 20:24	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-306D-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 10:30:00 AM
Lab ID:	1507O67-009A	**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	210931	1	08/04/2015 00:08	NP
Benzene	BRL	5.0		ug/L	210931	1	08/04/2015 00:08	NP
Carbon disulfide	BRL	5.0		ug/L	210931	1	08/04/2015 00:08	NP
Ethylbenzene	BRL	5.0		ug/L	210931	1	08/04/2015 00:08	NP
Methylene chloride	BRL	5.0		ug/L	210931	1	08/04/2015 00:08	NP
Toluene	BRL	5.0		ug/L	210931	1	08/04/2015 00:08	NP
Trichloroethene	BRL	5.0		ug/L	210931	1	08/04/2015 00:08	NP
Xylenes, Total	BRL	5.0		ug/L	210931	1	08/04/2015 00:08	NP
Surr: 4-Bromofluorobenzene	78.5	70.6-123		%REC	210931	1	08/04/2015 00:08	NP
Surr: Dibromofluoromethane	103	78.7-124		%REC	210931	1	08/04/2015 00:08	NP
Surr: Toluene-d8	98.4	81.3-120		%REC	210931	1	08/04/2015 00:08	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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-306D-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 10:30:00 AM
Lab ID:	1507O67-009B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	210977	1	08/03/2015 16:50	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-306D-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 10:30:00 AM
Lab ID:	1507O67-009C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210852	1	07/31/2015 13:01	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210814	1	08/03/2015 15:12	TA
Arsenic	BRL	0.0500		mg/L	210814	1	08/03/2015 15:12	TA
Barium	0.403	0.0200		mg/L	210814	1	08/03/2015 15:12	TA
Beryllium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:12	TA
Cadmium	BRL	0.0050		mg/L	210814	1	08/03/2015 15:12	TA
Chromium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:12	TA
Copper	BRL	0.0100		mg/L	210814	1	08/03/2015 15:12	TA
Lead	BRL	0.0100		mg/L	210814	1	08/03/2015 15:12	TA
Nickel	BRL	0.0200		mg/L	210814	1	08/03/2015 15:12	TA
Selenium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:12	TA
Thallium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:12	TA
Vanadium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:12	TA
Zinc	0.0323	0.0200		mg/L	210814	1	08/03/2015 15:12	TA

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-306D-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 10:30:00 AM
Lab ID:	1507O67-009D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210794	1	07/31/2015 20:51	YH
Acenaphthylene	BRL	1.0		ug/L	210794	1	07/31/2015 20:51	YH
Acenaphthene	BRL	0.50		ug/L	210794	1	07/31/2015 20:51	YH
Fluorene	BRL	0.10		ug/L	210794	1	07/31/2015 20:51	YH
Phenanthrene	BRL	0.050		ug/L	210794	1	07/31/2015 20:51	YH
Anthracene	BRL	0.050		ug/L	210794	1	07/31/2015 20:51	YH
Fluoranthene	BRL	0.10		ug/L	210794	1	07/31/2015 20:51	YH
Pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 20:51	YH
Benz(a)anthracene	BRL	0.050		ug/L	210794	1	07/31/2015 20:51	YH
Chrysene	BRL	0.050		ug/L	210794	1	07/31/2015 20:51	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210794	1	07/31/2015 20:51	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210794	1	07/31/2015 20:51	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 20:51	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 20:51	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210794	1	07/31/2015 20:51	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210794	1	07/31/2015 20:51	YH
Surr: 4-Terphenyl-d14	99.8	55.4-136		%REC	210794	1	07/31/2015 20:51	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-602-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 10:47:00 AM
Lab ID:	1507O67-010A	**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	210931	1	08/04/2015 11:00	TH
Benzene	BRL	5.0		ug/L	210931	1	08/04/2015 11:00	TH
Carbon disulfide	BRL	5.0		ug/L	210931	1	08/04/2015 11:00	TH
Ethylbenzene	BRL	5.0		ug/L	210931	1	08/04/2015 11:00	TH
Methylene chloride	BRL	5.0		ug/L	210931	1	08/04/2015 11:00	TH
Toluene	BRL	5.0		ug/L	210931	1	08/04/2015 11:00	TH
Trichloroethene	BRL	5.0		ug/L	210931	1	08/04/2015 11:00	TH
Xylenes, Total	BRL	5.0		ug/L	210931	1	08/04/2015 11:00	TH
Surr: 4-Bromofluorobenzene	94	70.6-123		%REC	210931	1	08/04/2015 11:00	TH
Surr: Dibromofluoromethane	120	78.7-124		%REC	210931	1	08/04/2015 11:00	TH
Surr: Toluene-d8	102	81.3-120		%REC	210931	1	08/04/2015 11:00	TH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-602-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 10:47:00 AM
Lab ID:	1507O67-010B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	210977	1	08/03/2015 16:50	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-602-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 10:47:00 AM
Lab ID:	1507O67-010C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210852	1	07/31/2015 13:03	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210814	1	08/03/2015 15:20	TA
Arsenic	BRL	0.0500		mg/L	210814	1	08/03/2015 15:20	TA
Barium	0.510	0.0200		mg/L	210814	1	08/03/2015 15:20	TA
Beryllium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:20	TA
Cadmium	BRL	0.0050		mg/L	210814	1	08/03/2015 15:20	TA
Chromium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:20	TA
Copper	BRL	0.0100		mg/L	210814	1	08/03/2015 15:20	TA
Lead	BRL	0.0100		mg/L	210814	1	08/03/2015 15:20	TA
Nickel	BRL	0.0200		mg/L	210814	1	08/04/2015 14:14	TA
Selenium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:20	TA
Thallium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:20	TA
Vanadium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:20	TA
Zinc	0.0407	0.0200		mg/L	210814	1	08/03/2015 15:20	TA

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-602-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 10:47:00 AM
Lab ID:	1507O67-010D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210794	1	07/31/2015 21:19	YH
Acenaphthylene	BRL	1.0		ug/L	210794	1	07/31/2015 21:19	YH
Acenaphthene	1.6	0.50		ug/L	210794	1	07/31/2015 21:19	YH
Fluorene	0.17	0.10		ug/L	210794	1	07/31/2015 21:19	YH
Phenanthrene	BRL	0.050		ug/L	210794	1	07/31/2015 21:19	YH
Anthracene	0.073	0.050		ug/L	210794	1	07/31/2015 21:19	YH
Fluoranthene	BRL	0.10		ug/L	210794	1	07/31/2015 21:19	YH
Pyrene	0.064	0.050		ug/L	210794	1	07/31/2015 21:19	YH
Benz(a)anthracene	BRL	0.050		ug/L	210794	1	07/31/2015 21:19	YH
Chrysene	BRL	0.050		ug/L	210794	1	07/31/2015 21:19	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210794	1	07/31/2015 21:19	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210794	1	07/31/2015 21:19	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 21:19	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210794	1	07/31/2015 21:19	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210794	1	07/31/2015 21:19	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210794	1	07/31/2015 21:19	YH
Surr: 4-Terphenyl-d14	91.4	55.4-136		%REC	210794	1	07/31/2015 21:19	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-309BR-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 11:00:00 AM
Lab ID:	1507O67-011A	**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	210931	1	08/04/2015 11:25	TH
Benzene	BRL	5.0		ug/L	210931	1	08/04/2015 11:25	TH
Carbon disulfide	BRL	5.0		ug/L	210931	1	08/04/2015 11:25	TH
Ethylbenzene	BRL	5.0		ug/L	210931	1	08/04/2015 11:25	TH
Methylene chloride	BRL	5.0		ug/L	210931	1	08/04/2015 11:25	TH
Toluene	BRL	5.0		ug/L	210931	1	08/04/2015 11:25	TH
Trichloroethene	BRL	5.0		ug/L	210931	1	08/04/2015 11:25	TH
Xylenes, Total	BRL	5.0		ug/L	210931	1	08/04/2015 11:25	TH
Surr: 4-Bromofluorobenzene	95.1	70.6-123		%REC	210931	1	08/04/2015 11:25	TH
Surr: Dibromofluoromethane	120	78.7-124		%REC	210931	1	08/04/2015 11:25	TH
Surr: Toluene-d8	105	81.3-120		%REC	210931	1	08/04/2015 11:25	TH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-309BR-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 11:00:00 AM
Lab ID:	1507O67-011B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	210977	1	08/03/2015 16:50	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-309BR-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 11:00:00 AM
Lab ID:	1507O67-011C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210852	1	07/31/2015 13:05	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210814	1	08/03/2015 15:23	TA
Arsenic	BRL	0.0500		mg/L	210814	1	08/03/2015 15:23	TA
Barium	0.462	0.0200		mg/L	210814	1	08/03/2015 15:23	TA
Beryllium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:23	TA
Cadmium	0.0072	0.0050		mg/L	210814	1	08/03/2015 15:23	TA
Chromium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:23	TA
Copper	0.0435	0.0100		mg/L	210814	1	08/03/2015 15:23	TA
Lead	BRL	0.0100		mg/L	210814	1	08/03/2015 15:23	TA
Nickel	BRL	0.0200		mg/L	210814	1	08/03/2015 15:23	TA
Selenium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:23	TA
Thallium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:23	TA
Vanadium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:23	TA
Zinc	0.0331	0.0200		mg/L	210814	1	08/03/2015 15:23	TA

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-309BR-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 11:00:00 AM
Lab ID:	1507O67-011D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210834	1	08/03/2015 10:24	YH
Acenaphthylene	BRL	1.0		ug/L	210834	1	08/03/2015 10:24	YH
Acenaphthene	BRL	0.50		ug/L	210834	1	08/03/2015 10:24	YH
Fluorene	BRL	0.10		ug/L	210834	1	08/03/2015 10:24	YH
Phenanthrene	BRL	0.050		ug/L	210834	1	08/03/2015 10:24	YH
Anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 10:24	YH
Fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 10:24	YH
Pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 10:24	YH
Benz(a)anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 10:24	YH
Chrysene	BRL	0.050		ug/L	210834	1	08/03/2015 10:24	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 10:24	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210834	1	08/03/2015 10:24	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 10:24	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 10:24	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210834	1	08/03/2015 10:24	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210834	1	08/03/2015 10:24	YH
Surr: 4-Terphenyl-d14	104	55.4-136		%REC	210834	1	08/03/2015 10:24	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-202DR-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 12:10:00 PM
Lab ID:	1507O67-012A	**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	210931	1	08/04/2015 11:49	TH
Benzene	BRL	5.0		ug/L	210931	1	08/04/2015 11:49	TH
Carbon disulfide	BRL	5.0		ug/L	210931	1	08/04/2015 11:49	TH
Ethylbenzene	BRL	5.0		ug/L	210931	1	08/04/2015 11:49	TH
Methylene chloride	BRL	5.0		ug/L	210931	1	08/04/2015 11:49	TH
Toluene	BRL	5.0		ug/L	210931	1	08/04/2015 11:49	TH
Trichloroethene	BRL	5.0		ug/L	210931	1	08/04/2015 11:49	TH
Xylenes, Total	BRL	5.0		ug/L	210931	1	08/04/2015 11:49	TH
Surr: 4-Bromofluorobenzene	95.8	70.6-123		%REC	210931	1	08/04/2015 11:49	TH
Surr: Dibromofluoromethane	123	78.7-124		%REC	210931	1	08/04/2015 11:49	TH
Surr: Toluene-d8	101	81.3-120		%REC	210931	1	08/04/2015 11:49	TH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-202DR-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 12:10:00 PM
Lab ID:	1507O67-012B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	210977	1	08/03/2015 16:50	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-202DR-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 12:10:00 PM
Lab ID:	1507O67-012C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210852	1	07/31/2015 13:07	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210814	1	08/03/2015 15:26	TA
Arsenic	BRL	0.0500		mg/L	210814	1	08/03/2015 15:26	TA
Barium	0.0619	0.0200		mg/L	210814	1	08/03/2015 15:26	TA
Beryllium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:26	TA
Cadmium	BRL	0.0050		mg/L	210814	1	08/03/2015 15:26	TA
Chromium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:26	TA
Copper	BRL	0.0100		mg/L	210814	1	08/03/2015 15:26	TA
Lead	BRL	0.0100		mg/L	210814	1	08/03/2015 15:26	TA
Nickel	BRL	0.0200		mg/L	210814	1	08/03/2015 15:26	TA
Selenium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:26	TA
Thallium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:26	TA
Vanadium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:26	TA
Zinc	BRL	0.0200		mg/L	210814	1	08/03/2015 15:26	TA

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-202DR-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 12:10:00 PM
Lab ID:	1507O67-012D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210834	1	08/03/2015 10:51	YH
Acenaphthylene	BRL	1.0		ug/L	210834	1	08/03/2015 10:51	YH
Acenaphthene	BRL	0.50		ug/L	210834	1	08/03/2015 10:51	YH
Fluorene	BRL	0.10		ug/L	210834	1	08/03/2015 10:51	YH
Phenanthrene	BRL	0.050		ug/L	210834	1	08/03/2015 10:51	YH
Anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 10:51	YH
Fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 10:51	YH
Pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 10:51	YH
Benz(a)anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 10:51	YH
Chrysene	BRL	0.050		ug/L	210834	1	08/03/2015 10:51	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 10:51	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210834	1	08/03/2015 10:51	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 10:51	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 10:51	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210834	1	08/03/2015 10:51	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210834	1	08/03/2015 10:51	YH
Surr: 4-Terphenyl-d14	100	55.4-136		%REC	210834	1	08/03/2015 10:51	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-402D-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 12:10:00 PM
Lab ID:	1507O67-013A	**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	210931	1	08/04/2015 12:12	TH
Benzene	BRL	5.0		ug/L	210931	1	08/04/2015 12:12	TH
Carbon disulfide	BRL	5.0		ug/L	210931	1	08/04/2015 12:12	TH
Ethylbenzene	BRL	5.0		ug/L	210931	1	08/04/2015 12:12	TH
Methylene chloride	BRL	5.0		ug/L	210931	1	08/04/2015 12:12	TH
Toluene	BRL	5.0		ug/L	210931	1	08/04/2015 12:12	TH
Trichloroethene	BRL	5.0		ug/L	210931	1	08/04/2015 12:12	TH
Xylenes, Total	BRL	5.0		ug/L	210931	1	08/04/2015 12:12	TH
Surr: 4-Bromofluorobenzene	94.7	70.6-123		%REC	210931	1	08/04/2015 12:12	TH
Surr: Dibromofluoromethane	113	78.7-124		%REC	210931	1	08/04/2015 12:12	TH
Surr: Toluene-d8	99.6	81.3-120		%REC	210931	1	08/04/2015 12:12	TH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-402D-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 12:10:00 PM
Lab ID:	1507O67-013B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	210977	1	08/03/2015 16:50	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-402D-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 12:10:00 PM
Lab ID:	1507O67-013C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210852	1	07/31/2015 13:09	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210814	1	08/03/2015 15:29	TA
Arsenic	BRL	0.0500		mg/L	210814	1	08/03/2015 15:29	TA
Barium	0.0790	0.0200		mg/L	210814	1	08/03/2015 15:29	TA
Beryllium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:29	TA
Cadmium	BRL	0.0050		mg/L	210814	1	08/03/2015 15:29	TA
Chromium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:29	TA
Copper	BRL	0.0100		mg/L	210814	1	08/03/2015 15:29	TA
Lead	BRL	0.0100		mg/L	210814	1	08/03/2015 15:29	TA
Nickel	BRL	0.0200		mg/L	210814	1	08/03/2015 15:29	TA
Selenium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:29	TA
Thallium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:29	TA
Vanadium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:29	TA
Zinc	BRL	0.0200		mg/L	210814	1	08/03/2015 15:29	TA

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-402D-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 12:10:00 PM
Lab ID:	1507O67-013D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210834	1	08/03/2015 11:18	YH
Acenaphthylene	BRL	1.0		ug/L	210834	1	08/03/2015 11:18	YH
Acenaphthene	BRL	0.50		ug/L	210834	1	08/03/2015 11:18	YH
Fluorene	BRL	0.10		ug/L	210834	1	08/03/2015 11:18	YH
Phenanthrene	BRL	0.050		ug/L	210834	1	08/03/2015 11:18	YH
Anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 11:18	YH
Fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 11:18	YH
Pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 11:18	YH
Benz(a)anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 11:18	YH
Chrysene	BRL	0.050		ug/L	210834	1	08/03/2015 11:18	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 11:18	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210834	1	08/03/2015 11:18	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 11:18	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 11:18	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210834	1	08/03/2015 11:18	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210834	1	08/03/2015 11:18	YH
Surr: 4-Terphenyl-d14	96.9	55.4-136		%REC	210834	1	08/03/2015 11:18	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-307D-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 12:35:00 PM
Lab ID:	1507O67-014A	**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	210931	1	08/04/2015 12:36	TH
Benzene	BRL	5.0		ug/L	210931	1	08/04/2015 12:36	TH
Carbon disulfide	BRL	5.0		ug/L	210931	1	08/04/2015 12:36	TH
Ethylbenzene	BRL	5.0		ug/L	210931	1	08/04/2015 12:36	TH
Methylene chloride	BRL	5.0		ug/L	210931	1	08/04/2015 12:36	TH
Toluene	BRL	5.0		ug/L	210931	1	08/04/2015 12:36	TH
Trichloroethene	BRL	5.0		ug/L	210931	1	08/04/2015 12:36	TH
Xylenes, Total	BRL	5.0		ug/L	210931	1	08/04/2015 12:36	TH
Surr: 4-Bromofluorobenzene	93.6	70.6-123		%REC	210931	1	08/04/2015 12:36	TH
Surr: Dibromofluoromethane	121	78.7-124		%REC	210931	1	08/04/2015 12:36	TH
Surr: Toluene-d8	101	81.3-120		%REC	210931	1	08/04/2015 12:36	TH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-307D-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 12:35:00 PM
Lab ID:	1507O67-014B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	210977	1	08/03/2015 16:50	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-307D-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 12:35:00 PM
Lab ID:	1507O67-014C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210852	1	07/31/2015 13:15	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210814	1	08/03/2015 15:32	TA
Arsenic	BRL	0.0500		mg/L	210814	1	08/03/2015 15:32	TA
Barium	0.0820	0.0200		mg/L	210814	1	08/03/2015 15:32	TA
Beryllium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:32	TA
Cadmium	BRL	0.0050		mg/L	210814	1	08/03/2015 15:32	TA
Chromium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:32	TA
Copper	BRL	0.0100		mg/L	210814	1	08/03/2015 15:32	TA
Lead	BRL	0.0100		mg/L	210814	1	08/03/2015 15:32	TA
Nickel	BRL	0.0200		mg/L	210814	1	08/03/2015 15:32	TA
Selenium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:32	TA
Thallium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:32	TA
Vanadium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:32	TA
Zinc	BRL	0.0200		mg/L	210814	1	08/03/2015 15:32	TA

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-307D-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 12:35:00 PM
Lab ID:	1507O67-014D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210834	1	08/03/2015 11:45	YH
Acenaphthylene	BRL	1.0		ug/L	210834	1	08/03/2015 11:45	YH
Acenaphthene	BRL	0.50		ug/L	210834	1	08/03/2015 11:45	YH
Fluorene	BRL	0.10		ug/L	210834	1	08/03/2015 11:45	YH
Phenanthrene	BRL	0.050		ug/L	210834	1	08/03/2015 11:45	YH
Anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 11:45	YH
Fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 11:45	YH
Pyrene	0.056	0.050		ug/L	210834	1	08/03/2015 11:45	YH
Benz(a)anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 11:45	YH
Chrysene	BRL	0.050		ug/L	210834	1	08/03/2015 11:45	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 11:45	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210834	1	08/03/2015 11:45	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 11:45	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 11:45	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210834	1	08/03/2015 11:45	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210834	1	08/03/2015 11:45	YH
Surr: 4-Terphenyl-d14	92.5	55.4-136		%REC	210834	1	08/03/2015 11:45	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-307SAP-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 2:50:00 PM
Lab ID:	1507O67-015A	**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	210931	1	08/04/2015 13:00	TH
Benzene	BRL	5.0		ug/L	210931	1	08/04/2015 13:00	TH
Carbon disulfide	BRL	5.0		ug/L	210931	1	08/04/2015 13:00	TH
Ethylbenzene	BRL	5.0		ug/L	210931	1	08/04/2015 13:00	TH
Methylene chloride	BRL	5.0		ug/L	210931	1	08/04/2015 13:00	TH
Toluene	BRL	5.0		ug/L	210931	1	08/04/2015 13:00	TH
Trichloroethene	BRL	5.0		ug/L	210931	1	08/04/2015 13:00	TH
Xylenes, Total	BRL	5.0		ug/L	210931	1	08/04/2015 13:00	TH
Surr: 4-Bromofluorobenzene	95.9	70.6-123		%REC	210931	1	08/04/2015 13:00	TH
Surr: Dibromofluoromethane	124	78.7-124		%REC	210931	1	08/04/2015 13:00	TH
Surr: Toluene-d8	104	81.3-120		%REC	210931	1	08/04/2015 13:00	TH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-307SAP-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 2:50:00 PM
Lab ID:	1507O67-015B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	210977	1	08/03/2015 16:50	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-307SAP-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 2:50:00 PM
Lab ID:	1507O67-015C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210852	1	07/31/2015 13:17	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210814	1	08/03/2015 15:35	TA
Arsenic	BRL	0.0500		mg/L	210814	1	08/03/2015 15:35	TA
Barium	0.0715	0.0200		mg/L	210814	1	08/03/2015 15:35	TA
Beryllium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:35	TA
Cadmium	BRL	0.0050		mg/L	210814	1	08/03/2015 15:35	TA
Chromium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:35	TA
Copper	BRL	0.0100		mg/L	210814	1	08/03/2015 15:35	TA
Lead	BRL	0.0100		mg/L	210814	1	08/03/2015 15:35	TA
Nickel	BRL	0.0200		mg/L	210814	1	08/03/2015 15:35	TA
Selenium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:35	TA
Thallium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:35	TA
Vanadium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:35	TA
Zinc	BRL	0.0200		mg/L	210814	1	08/03/2015 15:35	TA

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-307SAP-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 2:50:00 PM
Lab ID:	1507O67-015D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210834	1	08/03/2015 12:11	YH
Acenaphthylene	BRL	1.0		ug/L	210834	1	08/03/2015 12:11	YH
Acenaphthene	BRL	0.50		ug/L	210834	1	08/03/2015 12:11	YH
Fluorene	BRL	0.10		ug/L	210834	1	08/03/2015 12:11	YH
Phenanthrene	BRL	0.050		ug/L	210834	1	08/03/2015 12:11	YH
Anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 12:11	YH
Fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 12:11	YH
Pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 12:11	YH
Benz(a)anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 12:11	YH
Chrysene	BRL	0.050		ug/L	210834	1	08/03/2015 12:11	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 12:11	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210834	1	08/03/2015 12:11	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 12:11	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 12:11	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210834	1	08/03/2015 12:11	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210834	1	08/03/2015 12:11	YH
Surr: 4-Terphenyl-d14	103	55.4-136		%REC	210834	1	08/03/2015 12:11	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-402S-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 2:52:00 PM
Lab ID:	1507O67-016A	**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	210931	1	08/03/2015 15:53	NP
Benzene	BRL	5.0		ug/L	210931	1	08/03/2015 15:53	NP
Carbon disulfide	BRL	5.0		ug/L	210931	1	08/03/2015 15:53	NP
Ethylbenzene	BRL	5.0		ug/L	210931	1	08/03/2015 15:53	NP
Methylene chloride	BRL	5.0		ug/L	210931	1	08/03/2015 15:53	NP
Toluene	BRL	5.0		ug/L	210931	1	08/03/2015 15:53	NP
Trichloroethene	BRL	5.0		ug/L	210931	1	08/03/2015 15:53	NP
Xylenes, Total	BRL	5.0		ug/L	210931	1	08/03/2015 15:53	NP
Surr: 4-Bromofluorobenzene	78.9	70.6-123		%REC	210931	1	08/03/2015 15:53	NP
Surr: Dibromofluoromethane	104	78.7-124		%REC	210931	1	08/03/2015 15:53	NP
Surr: Toluene-d8	101	81.3-120		%REC	210931	1	08/03/2015 15:53	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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-402S-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 2:52:00 PM
Lab ID:	1507O67-016B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	211043	1	08/04/2015 16:00	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-402S-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 2:52:00 PM
Lab ID:	1507O67-016C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210852	1	07/31/2015 13:19	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210814	1	08/03/2015 14:28	TA
Arsenic	BRL	0.0500		mg/L	210814	1	08/03/2015 14:28	TA
Barium	0.0857	0.0200		mg/L	210814	1	08/03/2015 14:28	TA
Beryllium	BRL	0.0100		mg/L	210814	1	08/03/2015 14:28	TA
Cadmium	BRL	0.0050		mg/L	210814	1	08/03/2015 14:28	TA
Chromium	BRL	0.0100		mg/L	210814	1	08/03/2015 14:28	TA
Copper	BRL	0.0100		mg/L	210814	1	08/03/2015 14:28	TA
Lead	BRL	0.0100		mg/L	210814	1	08/03/2015 14:28	TA
Nickel	BRL	0.0200		mg/L	210814	1	08/03/2015 14:28	TA
Selenium	BRL	0.0200		mg/L	210814	1	08/03/2015 14:28	TA
Thallium	BRL	0.0200		mg/L	210814	1	08/03/2015 14:28	TA
Vanadium	BRL	0.0100		mg/L	210814	1	08/03/2015 14:28	TA
Zinc	BRL	0.0200		mg/L	210814	1	08/03/2015 14:28	TA

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-402S-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 2:52:00 PM
Lab ID:	1507O67-016D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210834	1	08/03/2015 12:39	YH
Acenaphthylene	BRL	1.0		ug/L	210834	1	08/03/2015 12:39	YH
Acenaphthene	BRL	0.50		ug/L	210834	1	08/03/2015 12:39	YH
Fluorene	BRL	0.10		ug/L	210834	1	08/03/2015 12:39	YH
Phenanthrene	BRL	0.050		ug/L	210834	1	08/03/2015 12:39	YH
Anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 12:39	YH
Fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 12:39	YH
Pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 12:39	YH
Benz(a)anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 12:39	YH
Chrysene	BRL	0.050		ug/L	210834	1	08/03/2015 12:39	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 12:39	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210834	1	08/03/2015 12:39	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 12:39	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 12:39	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210834	1	08/03/2015 12:39	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210834	1	08/03/2015 12:39	YH
Surr: 4-Terphenyl-d14	98.5	55.4-136		%REC	210834	1	08/03/2015 12:39	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-21-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 3:45:00 PM
Lab ID:	1507O67-017A	**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	210931	1	08/04/2015 13:24	TH
Benzene	BRL	5.0		ug/L	210931	1	08/04/2015 13:24	TH
Carbon disulfide	BRL	5.0		ug/L	210931	1	08/04/2015 13:24	TH
Ethylbenzene	BRL	5.0		ug/L	210931	1	08/04/2015 13:24	TH
Methylene chloride	BRL	5.0		ug/L	210931	1	08/04/2015 13:24	TH
Toluene	BRL	5.0		ug/L	210931	1	08/04/2015 13:24	TH
Trichloroethene	11	5.0		ug/L	210931	1	08/04/2015 13:24	TH
Xylenes, Total	BRL	5.0		ug/L	210931	1	08/04/2015 13:24	TH
Surr: 4-Bromofluorobenzene	91.6	70.6-123		%REC	210931	1	08/04/2015 13:24	TH
Surr: Dibromofluoromethane	119	78.7-124		%REC	210931	1	08/04/2015 13:24	TH
Surr: Toluene-d8	100	81.3-120		%REC	210931	1	08/04/2015 13:24	TH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-21-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 3:45:00 PM
Lab ID:	1507O67-017B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	210977	1	08/03/2015 16:50	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-21-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 3:45:00 PM
Lab ID:	1507O67-017C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210852	1	07/31/2015 13:24	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210814	1	08/03/2015 15:38	TA
Arsenic	BRL	0.0500		mg/L	210814	1	08/03/2015 15:38	TA
Barium	0.0969	0.0200		mg/L	210814	1	08/03/2015 15:38	TA
Beryllium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:38	TA
Cadmium	BRL	0.0050		mg/L	210814	1	08/03/2015 15:38	TA
Chromium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:38	TA
Copper	BRL	0.0100		mg/L	210814	1	08/03/2015 15:38	TA
Lead	BRL	0.0100		mg/L	210814	1	08/03/2015 15:38	TA
Nickel	BRL	0.0200		mg/L	210814	1	08/03/2015 15:38	TA
Selenium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:38	TA
Thallium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:38	TA
Vanadium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:38	TA
Zinc	BRL	0.0200		mg/L	210814	1	08/03/2015 15:38	TA

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-21-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 3:45:00 PM
Lab ID:	1507O67-017D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210834	1	08/03/2015 13:06	YH
Acenaphthylene	BRL	1.0		ug/L	210834	1	08/03/2015 13:06	YH
Acenaphthene	BRL	0.50		ug/L	210834	1	08/03/2015 13:06	YH
Fluorene	BRL	0.10		ug/L	210834	1	08/03/2015 13:06	YH
Phenanthrene	BRL	0.050		ug/L	210834	1	08/03/2015 13:06	YH
Anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 13:06	YH
Fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 13:06	YH
Pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 13:06	YH
Benz(a)anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 13:06	YH
Chrysene	BRL	0.050		ug/L	210834	1	08/03/2015 13:06	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 13:06	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210834	1	08/03/2015 13:06	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 13:06	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 13:06	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210834	1	08/03/2015 13:06	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210834	1	08/03/2015 13:06	YH
Surr: 4-Terphenyl-d14	91.5	55.4-136		%REC	210834	1	08/03/2015 13:06	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-319-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 4:00:00 PM
Lab ID:	1507O67-018A	**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	210931	1	08/03/2015 17:02	NP
Benzene	BRL	5.0		ug/L	210931	1	08/03/2015 17:02	NP
Carbon disulfide	BRL	5.0		ug/L	210931	1	08/03/2015 17:02	NP
Ethylbenzene	BRL	5.0		ug/L	210931	1	08/03/2015 17:02	NP
Methylene chloride	BRL	5.0		ug/L	210931	1	08/03/2015 17:02	NP
Toluene	BRL	5.0		ug/L	210931	1	08/03/2015 17:02	NP
Trichloroethene	BRL	5.0		ug/L	210931	1	08/03/2015 17:02	NP
Xylenes, Total	BRL	5.0		ug/L	210931	1	08/03/2015 17:02	NP
Surr: 4-Bromofluorobenzene	80.3	70.6-123		%REC	210931	1	08/03/2015 17:02	NP
Surr: Dibromofluoromethane	105	78.7-124		%REC	210931	1	08/03/2015 17:02	NP
Surr: Toluene-d8	101	81.3-120		%REC	210931	1	08/03/2015 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:** 6-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-319-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 4:00:00 PM
Lab ID:	1507O67-018B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	211043	1	08/04/2015 16:00	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-319-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 4:00:00 PM
Lab ID:	1507O67-018C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210853	1	07/31/2015 13:40	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210814	1	08/03/2015 14:37	TA
Arsenic	BRL	0.0500		mg/L	210814	1	08/03/2015 14:37	TA
Barium	0.777	0.0200		mg/L	210814	1	08/03/2015 14:37	TA
Beryllium	BRL	0.0100		mg/L	210814	1	08/03/2015 14:37	TA
Cadmium	BRL	0.0050		mg/L	210814	1	08/03/2015 14:37	TA
Chromium	BRL	0.0100		mg/L	210814	1	08/03/2015 14:37	TA
Copper	BRL	0.0100		mg/L	210814	1	08/03/2015 14:37	TA
Lead	BRL	0.0100		mg/L	210814	1	08/03/2015 14:37	TA
Nickel	BRL	0.0200		mg/L	210814	1	08/03/2015 14:37	TA
Selenium	BRL	0.0200		mg/L	210814	1	08/03/2015 14:37	TA
Thallium	BRL	0.0200		mg/L	210814	1	08/03/2015 14:37	TA
Vanadium	BRL	0.0100		mg/L	210814	1	08/03/2015 14:37	TA
Zinc	BRL	0.0200		mg/L	210814	1	08/03/2015 14:37	TA

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-319-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 4:00:00 PM
Lab ID:	1507O67-018D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210834	1	08/03/2015 13:33	YH
Acenaphthylene	BRL	1.0		ug/L	210834	1	08/03/2015 13:33	YH
Acenaphthene	BRL	0.50		ug/L	210834	1	08/03/2015 13:33	YH
Fluorene	BRL	0.10		ug/L	210834	1	08/03/2015 13:33	YH
Phenanthrene	BRL	0.050		ug/L	210834	1	08/03/2015 13:33	YH
Anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 13:33	YH
Fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 13:33	YH
Pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 13:33	YH
Benz(a)anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 13:33	YH
Chrysene	BRL	0.050		ug/L	210834	1	08/03/2015 13:33	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 13:33	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210834	1	08/03/2015 13:33	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 13:33	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 13:33	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210834	1	08/03/2015 13:33	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210834	1	08/03/2015 13:33	YH
Surr: 4-Terphenyl-d14	91.1	55.4-136		%REC	210834	1	08/03/2015 13:33	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-401SAP-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 6:06:00 PM
Lab ID:	1507O67-019A	**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	210931	1	08/04/2015 13:49	TH
Benzene	BRL	5.0		ug/L	210931	1	08/04/2015 13:49	TH
Carbon disulfide	BRL	5.0		ug/L	210931	1	08/04/2015 13:49	TH
Ethylbenzene	BRL	5.0		ug/L	210931	1	08/04/2015 13:49	TH
Methylene chloride	BRL	5.0		ug/L	210931	1	08/04/2015 13:49	TH
Toluene	BRL	5.0		ug/L	210931	1	08/04/2015 13:49	TH
Trichloroethene	17	5.0		ug/L	210931	1	08/04/2015 13:49	TH
Xylenes, Total	BRL	5.0		ug/L	210931	1	08/04/2015 13:49	TH
Surr: 4-Bromofluorobenzene	90.7	70.6-123		%REC	210931	1	08/04/2015 13:49	TH
Surr: Dibromofluoromethane	116	78.7-124		%REC	210931	1	08/04/2015 13:49	TH
Surr: Toluene-d8	98.4	81.3-120		%REC	210931	1	08/04/2015 13:49	TH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-401SAP-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 6:06:00 PM
Lab ID:	1507O67-019B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	210977	1	08/03/2015 16:50	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-401SAP-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 6:06:00 PM
Lab ID:	1507O67-019C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	0.00042	0.00020		mg/L	210852	1	07/31/2015 13:26	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210814	1	08/03/2015 15:41	TA
Arsenic	BRL	0.0500		mg/L	210814	1	08/03/2015 15:41	TA
Barium	0.0623	0.0200		mg/L	210814	1	08/03/2015 15:41	TA
Beryllium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:41	TA
Cadmium	BRL	0.0050		mg/L	210814	1	08/03/2015 15:41	TA
Chromium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:41	TA
Copper	BRL	0.0100		mg/L	210814	1	08/03/2015 15:41	TA
Lead	BRL	0.0100		mg/L	210814	1	08/03/2015 15:41	TA
Nickel	BRL	0.0200		mg/L	210814	1	08/03/2015 15:41	TA
Selenium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:41	TA
Thallium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:41	TA
Vanadium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:41	TA
Zinc	BRL	0.0200		mg/L	210814	1	08/03/2015 15:41	TA

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-401SAP-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 6:06:00 PM
Lab ID:	1507O67-019D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	0.56	0.50		ug/L	210834	1	08/03/2015 14:00	YH
Acenaphthylene	BRL	1.0		ug/L	210834	1	08/03/2015 14:00	YH
Acenaphthene	BRL	0.50		ug/L	210834	1	08/03/2015 14:00	YH
Fluorene	BRL	0.10		ug/L	210834	1	08/03/2015 14:00	YH
Phenanthrene	BRL	0.050		ug/L	210834	1	08/03/2015 14:00	YH
Anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 14:00	YH
Fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 14:00	YH
Pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 14:00	YH
Benz(a)anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 14:00	YH
Chrysene	BRL	0.050		ug/L	210834	1	08/03/2015 14:00	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 14:00	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210834	1	08/03/2015 14:00	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 14:00	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 14:00	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210834	1	08/03/2015 14:00	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210834	1	08/03/2015 14:00	YH
Surr: 4-Terphenyl-d14	90.7	55.4-136		%REC	210834	1	08/03/2015 14:00	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-310SAP-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 4:30:00 PM
Lab ID:	1507O67-020A	**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	210931	1	08/04/2015 14:13	TH
Benzene	BRL	5.0		ug/L	210931	1	08/04/2015 14:13	TH
Carbon disulfide	BRL	5.0		ug/L	210931	1	08/04/2015 14:13	TH
Ethylbenzene	BRL	5.0		ug/L	210931	1	08/04/2015 14:13	TH
Methylene chloride	BRL	5.0		ug/L	210931	1	08/04/2015 14:13	TH
Toluene	BRL	5.0		ug/L	210931	1	08/04/2015 14:13	TH
Trichloroethene	BRL	5.0		ug/L	210931	1	08/04/2015 14:13	TH
Xylenes, Total	BRL	5.0		ug/L	210931	1	08/04/2015 14:13	TH
Surr: 4-Bromofluorobenzene	92.6	70.6-123		%REC	210931	1	08/04/2015 14:13	TH
Surr: Dibromofluoromethane	123	78.7-124		%REC	210931	1	08/04/2015 14:13	TH
Surr: Toluene-d8	102	81.3-120		%REC	210931	1	08/04/2015 14:13	TH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-310SAP-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 4:30:00 PM
Lab ID:	1507O67-020B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	211043	1	08/04/2015 16:00	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-310SAP-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 4:30:00 PM
Lab ID:	1507O67-020C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210852	1	07/31/2015 13:28	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210814	1	08/03/2015 15:44	TA
Arsenic	BRL	0.0500		mg/L	210814	1	08/03/2015 15:44	TA
Barium	0.0801	0.0200		mg/L	210814	1	08/03/2015 15:44	TA
Beryllium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:44	TA
Cadmium	BRL	0.0050		mg/L	210814	1	08/03/2015 15:44	TA
Chromium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:44	TA
Copper	BRL	0.0100		mg/L	210814	1	08/03/2015 15:44	TA
Lead	BRL	0.0100		mg/L	210814	1	08/03/2015 15:44	TA
Nickel	0.287	0.0200		mg/L	210814	1	08/03/2015 15:44	TA
Selenium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:44	TA
Thallium	BRL	0.0200		mg/L	210814	1	08/03/2015 15:44	TA
Vanadium	BRL	0.0100		mg/L	210814	1	08/03/2015 15:44	TA
Zinc	BRL	0.0200		mg/L	210814	1	08/03/2015 15:44	TA

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-310SAP-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 4:30:00 PM
Lab ID:	1507O67-020D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210834	1	08/03/2015 14:27	YH
Acenaphthylene	BRL	1.0		ug/L	210834	1	08/03/2015 14:27	YH
Acenaphthene	BRL	0.50		ug/L	210834	1	08/03/2015 14:27	YH
Fluorene	BRL	0.10		ug/L	210834	1	08/03/2015 14:27	YH
Phenanthrene	BRL	0.050		ug/L	210834	1	08/03/2015 14:27	YH
Anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 14:27	YH
Fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 14:27	YH
Pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 14:27	YH
Benz(a)anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 14:27	YH
Chrysene	BRL	0.050		ug/L	210834	1	08/03/2015 14:27	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 14:27	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210834	1	08/03/2015 14:27	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 14:27	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 14:27	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210834	1	08/03/2015 14:27	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210834	1	08/03/2015 14:27	YH
Surr: 4-Terphenyl-d14	96.6	55.4-136		%REC	210834	1	08/03/2015 14:27	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-213-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 7:15:00 PM
Lab ID:	1507O67-021A	**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	210988	50	08/03/2015 22:51	NP
Benzene	8400	250		ug/L	210988	50	08/03/2015 22:51	NP
Carbon disulfide	BRL	250		ug/L	210988	50	08/03/2015 22:51	NP
Ethylbenzene	1500	250		ug/L	210988	50	08/03/2015 22:51	NP
Methylene chloride	BRL	250		ug/L	210988	50	08/03/2015 22:51	NP
Toluene	490	250		ug/L	210988	50	08/03/2015 22:51	NP
Trichloroethene	BRL	250		ug/L	210988	50	08/03/2015 22:51	NP
Xylenes, Total	900	250		ug/L	210988	50	08/03/2015 22:51	NP
Surr: 4-Bromofluorobenzene	81.7	70.6-123		%REC	210988	50	08/03/2015 22:51	NP
Surr: Dibromofluoromethane	102	78.7-124		%REC	210988	50	08/03/2015 22:51	NP
Surr: Toluene-d8	96	81.3-120		%REC	210988	50	08/03/2015 22:51	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:** 6-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-213-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 7:15:00 PM
Lab ID:	1507O67-021B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	211043	1	08/04/2015 16:00	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-213-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 7:15:00 PM
Lab ID:	1507O67-021C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210852	1	07/31/2015 13:30	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210811	1	08/03/2015 18:11	IO
Arsenic	BRL	0.0500		mg/L	210811	1	08/03/2015 18:11	IO
Barium	0.961	0.0200		mg/L	210811	1	08/03/2015 18:11	IO
Beryllium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:11	IO
Cadmium	BRL	0.0050		mg/L	210811	1	08/03/2015 18:11	IO
Chromium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:11	IO
Copper	BRL	0.0100		mg/L	210811	1	08/03/2015 18:11	IO
Lead	BRL	0.0100		mg/L	210811	1	08/03/2015 18:11	IO
Nickel	BRL	0.0200		mg/L	210811	1	08/03/2015 18:11	IO
Selenium	BRL	0.0200		mg/L	210811	1	08/03/2015 18:11	IO
Thallium	BRL	0.0200		mg/L	210811	1	08/03/2015 18:11	IO
Vanadium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:11	IO
Zinc	BRL	0.0200		mg/L	210811	1	08/03/2015 18:11	IO

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-213-20150728-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/28/2015 7:15:00 PM
Lab ID:	1507O67-021D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	7100	500		ug/L	210834	1000	08/04/2015 11:47	YH
Acenaphthylene	95	10		ug/L	210834	10	08/03/2015 18:54	YH
Acenaphthene	64	5.0		ug/L	210834	10	08/03/2015 18:54	YH
Fluorene	15	1.0		ug/L	210834	10	08/03/2015 18:54	YH
Phenanthrene	21	0.50		ug/L	210834	10	08/03/2015 18:54	YH
Anthracene	3.2	0.050		ug/L	210834	1	08/03/2015 16:44	YH
Fluoranthene	0.73	0.10		ug/L	210834	1	08/03/2015 16:44	YH
Pyrene	0.75	0.050		ug/L	210834	1	08/03/2015 16:44	YH
Benz(a)anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 16:44	YH
Chrysene	BRL	0.050		ug/L	210834	1	08/03/2015 16:44	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 16:44	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210834	1	08/03/2015 16:44	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 16:44	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 16:44	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210834	1	08/03/2015 16:44	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210834	1	08/03/2015 16:44	YH
Surr: 4-Terphenyl-d14	92.8	55.4-136		%REC	210834	1	08/03/2015 16:44	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-311-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 8:00:00 AM
Lab ID:	1507O67-022A	**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	210988	1	08/04/2015 10:19	NP
Benzene	480	50		ug/L	210988	10	08/04/2015 10:43	NP
Carbon disulfide	BRL	5.0		ug/L	210988	1	08/04/2015 10:19	NP
Ethylbenzene	61	5.0		ug/L	210988	1	08/04/2015 10:19	NP
Methylene chloride	BRL	5.0		ug/L	210988	1	08/04/2015 10:19	NP
Toluene	BRL	5.0		ug/L	210988	1	08/04/2015 10:19	NP
Trichloroethene	BRL	5.0		ug/L	210988	1	08/04/2015 10:19	NP
Xylenes, Total	16	5.0		ug/L	210988	1	08/04/2015 10:19	NP
Surr: 4-Bromofluorobenzene	79.7	70.6-123		%REC	210988	10	08/04/2015 10:43	NP
Surr: 4-Bromofluorobenzene	82.6	70.6-123		%REC	210988	1	08/04/2015 10:19	NP
Surr: Dibromofluoromethane	99.1	78.7-124		%REC	210988	1	08/04/2015 10:19	NP
Surr: Dibromofluoromethane	104	78.7-124		%REC	210988	10	08/04/2015 10:43	NP
Surr: Toluene-d8	96.8	81.3-120		%REC	210988	1	08/04/2015 10:19	NP
Surr: Toluene-d8	99.3	81.3-120		%REC	210988	10	08/04/2015 10:43	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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-311-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 8:00:00 AM
Lab ID:	1507O67-022B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	0.018	0.010		mg/L	211043	1	08/04/2015 16:00	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-311-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 8:00:00 AM
Lab ID:	1507O67-022C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210853	1	07/31/2015 13:54	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210811	1	08/03/2015 18:21	IO
Arsenic	BRL	0.0500		mg/L	210811	1	08/03/2015 18:21	IO
Barium	0.218	0.0200		mg/L	210811	1	08/03/2015 18:21	IO
Beryllium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:21	IO
Cadmium	BRL	0.0050		mg/L	210811	1	08/03/2015 18:21	IO
Chromium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:21	IO
Copper	BRL	0.0100		mg/L	210811	1	08/03/2015 18:21	IO
Lead	BRL	0.0100		mg/L	210811	1	08/03/2015 18:21	IO
Nickel	BRL	0.0200		mg/L	210811	1	08/03/2015 18:21	IO
Selenium	BRL	0.0200		mg/L	210811	1	08/03/2015 18:21	IO
Thallium	BRL	0.0200		mg/L	210811	1	08/03/2015 18:21	IO
Vanadium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:21	IO
Zinc	BRL	0.0200		mg/L	210811	1	08/03/2015 18:21	IO

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-311-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 8:00:00 AM
Lab ID:	1507O67-022D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	250	50		ug/L	210834	100	08/04/2015 12:11	YH
Acenaphthylene	1.0	1.0		ug/L	210834	1	08/03/2015 17:12	YH
Acenaphthene	14	5.0		ug/L	210834	10	08/03/2015 19:20	YH
Fluorene	6.2	0.10		ug/L	210834	1	08/03/2015 17:12	YH
Phenanthrene	4.1	0.050		ug/L	210834	1	08/03/2015 17:12	YH
Anthracene	0.64	0.050		ug/L	210834	1	08/03/2015 17:12	YH
Fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 17:12	YH
Pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 17:12	YH
Benz(a)anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 17:12	YH
Chrysene	BRL	0.050		ug/L	210834	1	08/03/2015 17:12	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 17:12	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210834	1	08/03/2015 17:12	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 17:12	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 17:12	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210834	1	08/03/2015 17:12	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210834	1	08/03/2015 17:12	YH
Surr: 4-Terphenyl-d14	85.5	55.4-136		%REC	210834	1	08/03/2015 17:12	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-408S-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 8:36:00 AM
Lab ID:	1507O67-023A	**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	210988	1	08/04/2015 14:37	TH
Benzene	BRL	5.0		ug/L	210988	1	08/04/2015 14:37	TH
Carbon disulfide	BRL	5.0		ug/L	210988	1	08/04/2015 14:37	TH
Ethylbenzene	BRL	5.0		ug/L	210988	1	08/04/2015 14:37	TH
Methylene chloride	BRL	5.0		ug/L	210988	1	08/04/2015 14:37	TH
Toluene	BRL	5.0		ug/L	210988	1	08/04/2015 14:37	TH
Trichloroethene	BRL	5.0		ug/L	210988	1	08/04/2015 14:37	TH
Xylenes, Total	BRL	5.0		ug/L	210988	1	08/04/2015 14:37	TH
Surr: 4-Bromofluorobenzene	91.8	70.6-123		%REC	210988	1	08/04/2015 14:37	TH
Surr: Dibromofluoromethane	116	78.7-124		%REC	210988	1	08/04/2015 14:37	TH
Surr: Toluene-d8	99.4	81.3-120		%REC	210988	1	08/04/2015 14:37	TH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-408S-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 8:36:00 AM
Lab ID:	1507O67-023B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	211043	1	08/04/2015 16:00	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-408S-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 8:36:00 AM
Lab ID:	1507O67-023C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210853	1	07/31/2015 13:56	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210811	1	08/03/2015 18:25	IO
Arsenic	BRL	0.0500		mg/L	210811	1	08/03/2015 18:25	IO
Barium	0.599	0.0200		mg/L	210811	1	08/03/2015 18:25	IO
Beryllium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:25	IO
Cadmium	BRL	0.0050		mg/L	210811	1	08/03/2015 18:25	IO
Chromium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:25	IO
Copper	BRL	0.0100		mg/L	210811	1	08/03/2015 18:25	IO
Lead	BRL	0.0100		mg/L	210811	1	08/03/2015 18:25	IO
Nickel	BRL	0.0200		mg/L	210811	1	08/03/2015 18:25	IO
Selenium	BRL	0.0200		mg/L	210811	1	08/03/2015 18:25	IO
Thallium	BRL	0.0200		mg/L	210811	1	08/03/2015 18:25	IO
Vanadium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:25	IO
Zinc	BRL	0.0200		mg/L	210811	1	08/03/2015 18:25	IO

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-408S-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 8:36:00 AM
Lab ID:	1507O67-023D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	1.2	0.50		ug/L	210834	1	08/03/2015 17:39	YH
Acenaphthylene	BRL	1.0		ug/L	210834	1	08/03/2015 17:39	YH
Acenaphthene	BRL	0.50		ug/L	210834	1	08/03/2015 17:39	YH
Fluorene	BRL	0.10		ug/L	210834	1	08/03/2015 17:39	YH
Phenanthrene	BRL	0.050		ug/L	210834	1	08/03/2015 17:39	YH
Anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 17:39	YH
Fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 17:39	YH
Pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 17:39	YH
Benz(a)anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 17:39	YH
Chrysene	BRL	0.050		ug/L	210834	1	08/03/2015 17:39	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 17:39	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210834	1	08/03/2015 17:39	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 17:39	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 17:39	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210834	1	08/03/2015 17:39	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210834	1	08/03/2015 17:39	YH
Surr: 4-Terphenyl-d14	92.7	55.4-136		%REC	210834	1	08/03/2015 17:39	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-324-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 8:50:00 AM
Lab ID:	1507O67-024A	**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	210988	1	08/04/2015 11:06	NP
Benzene	BRL	5.0		ug/L	210988	1	08/04/2015 11:06	NP
Carbon disulfide	BRL	5.0		ug/L	210988	1	08/04/2015 11:06	NP
Ethylbenzene	BRL	5.0		ug/L	210988	1	08/04/2015 11:06	NP
Methylene chloride	BRL	5.0		ug/L	210988	1	08/04/2015 11:06	NP
Toluene	BRL	5.0		ug/L	210988	1	08/04/2015 11:06	NP
Trichloroethene	BRL	5.0		ug/L	210988	1	08/04/2015 11:06	NP
Xylenes, Total	BRL	5.0		ug/L	210988	1	08/04/2015 11:06	NP
Surr: 4-Bromofluorobenzene	82.7	70.6-123		%REC	210988	1	08/04/2015 11:06	NP
Surr: Dibromofluoromethane	104	78.7-124		%REC	210988	1	08/04/2015 11:06	NP
Surr: Toluene-d8	98.3	81.3-120		%REC	210988	1	08/04/2015 11:06	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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-324-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 8:50:00 AM
Lab ID:	1507O67-024B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	211043	1	08/04/2015 16:00	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-324-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 8:50:00 AM
Lab ID:	1507O67-024C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210853	1	07/31/2015 14:01	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210811	1	08/03/2015 18:29	IO
Arsenic	BRL	0.0500		mg/L	210811	1	08/03/2015 18:29	IO
Barium	0.0572	0.0200		mg/L	210811	1	08/03/2015 18:29	IO
Beryllium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:29	IO
Cadmium	BRL	0.0050		mg/L	210811	1	08/03/2015 18:29	IO
Chromium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:29	IO
Copper	BRL	0.0100		mg/L	210811	1	08/03/2015 18:29	IO
Lead	BRL	0.0100		mg/L	210811	1	08/03/2015 18:29	IO
Nickel	BRL	0.0200		mg/L	210811	1	08/03/2015 18:29	IO
Selenium	BRL	0.0200		mg/L	210811	1	08/03/2015 18:29	IO
Thallium	BRL	0.0200		mg/L	210811	1	08/03/2015 18:29	IO
Vanadium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:29	IO
Zinc	BRL	0.0200		mg/L	210811	1	08/03/2015 18:29	IO

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-324-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 8:50:00 AM
Lab ID:	1507O67-024D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	1.4	0.50		ug/L	210834	1	08/03/2015 18:07	YH
Acenaphthylene	BRL	1.0		ug/L	210834	1	08/03/2015 18:07	YH
Acenaphthene	BRL	0.50		ug/L	210834	1	08/03/2015 18:07	YH
Fluorene	BRL	0.10		ug/L	210834	1	08/03/2015 18:07	YH
Phenanthrene	BRL	0.050		ug/L	210834	1	08/03/2015 18:07	YH
Anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 18:07	YH
Fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 18:07	YH
Pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 18:07	YH
Benz(a)anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 18:07	YH
Chrysene	BRL	0.050		ug/L	210834	1	08/03/2015 18:07	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 18:07	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210834	1	08/03/2015 18:07	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 18:07	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 18:07	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210834	1	08/03/2015 18:07	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210834	1	08/03/2015 18:07	YH
Surr: 4-Terphenyl-d14	82	55.4-136		%REC	210834	1	08/03/2015 18:07	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-306BR-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 9:00:00 AM
Lab ID:	1507O67-025A	**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	210988	1	08/04/2015 11:29	NP
Benzene	BRL	5.0		ug/L	210988	1	08/04/2015 11:29	NP
Carbon disulfide	BRL	5.0		ug/L	210988	1	08/04/2015 11:29	NP
Ethylbenzene	BRL	5.0		ug/L	210988	1	08/04/2015 11:29	NP
Methylene chloride	BRL	5.0		ug/L	210988	1	08/04/2015 11:29	NP
Toluene	BRL	5.0		ug/L	210988	1	08/04/2015 11:29	NP
Trichloroethene	BRL	5.0		ug/L	210988	1	08/04/2015 11:29	NP
Xylenes, Total	BRL	5.0		ug/L	210988	1	08/04/2015 11:29	NP
Surr: 4-Bromofluorobenzene	79.1	70.6-123		%REC	210988	1	08/04/2015 11:29	NP
Surr: Dibromofluoromethane	101	78.7-124		%REC	210988	1	08/04/2015 11:29	NP
Surr: Toluene-d8	98.7	81.3-120		%REC	210988	1	08/04/2015 11:29	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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-306BR-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 9:00:00 AM
Lab ID:	1507O67-025B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	211043	1	08/04/2015 16:00	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-306BR-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 9:00:00 AM
Lab ID:	1507O67-025C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210853	1	07/31/2015 14:03	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210811	1	08/03/2015 18:32	IO
Arsenic	BRL	0.0500		mg/L	210811	1	08/03/2015 18:32	IO
Barium	0.494	0.0200		mg/L	210811	1	08/03/2015 18:32	IO
Beryllium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:32	IO
Cadmium	BRL	0.0050		mg/L	210811	1	08/03/2015 18:32	IO
Chromium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:32	IO
Copper	BRL	0.0100		mg/L	210811	1	08/03/2015 18:32	IO
Lead	BRL	0.0100		mg/L	210811	1	08/03/2015 18:32	IO
Nickel	BRL	0.0200		mg/L	210811	1	08/03/2015 18:32	IO
Selenium	BRL	0.0200		mg/L	210811	1	08/03/2015 18:32	IO
Thallium	BRL	0.0200		mg/L	210811	1	08/03/2015 18:32	IO
Vanadium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:32	IO
Zinc	BRL	0.0200		mg/L	210811	1	08/03/2015 18:32	IO

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-306BR-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 9:00:00 AM
Lab ID:	1507O67-025D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	30	5.0		ug/L	210834	10	08/03/2015 20:41	YH
Acenaphthylene	BRL	1.0		ug/L	210834	1	08/03/2015 18:35	YH
Acenaphthene	7.5	0.50		ug/L	210834	1	08/03/2015 18:35	YH
Fluorene	0.89	0.10		ug/L	210834	1	08/03/2015 18:35	YH
Phenanthrene	0.18	0.050		ug/L	210834	1	08/03/2015 18:35	YH
Anthracene	0.074	0.050		ug/L	210834	1	08/03/2015 18:35	YH
Fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 18:35	YH
Pyrene	0.052	0.050		ug/L	210834	1	08/03/2015 18:35	YH
Benz(a)anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 18:35	YH
Chrysene	BRL	0.050		ug/L	210834	1	08/03/2015 18:35	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 18:35	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210834	1	08/03/2015 18:35	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 18:35	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 18:35	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210834	1	08/03/2015 18:35	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210834	1	08/03/2015 18:35	YH
Surr: 4-Terphenyl-d14	92.1	55.4-136		%REC	210834	1	08/03/2015 18:35	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-203-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 9:15:00 AM
Lab ID:	1507O67-026A	**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	210988	1	08/04/2015 11:51	NP
Benzene	BRL	5.0		ug/L	210988	1	08/04/2015 11:51	NP
Carbon disulfide	BRL	5.0		ug/L	210988	1	08/04/2015 11:51	NP
Ethylbenzene	BRL	5.0		ug/L	210988	1	08/04/2015 11:51	NP
Methylene chloride	BRL	5.0		ug/L	210988	1	08/04/2015 11:51	NP
Toluene	BRL	5.0		ug/L	210988	1	08/04/2015 11:51	NP
Trichloroethene	BRL	5.0		ug/L	210988	1	08/04/2015 11:51	NP
Xylenes, Total	BRL	5.0		ug/L	210988	1	08/04/2015 11:51	NP
Surr: 4-Bromofluorobenzene	78.7	70.6-123		%REC	210988	1	08/04/2015 11:51	NP
Surr: Dibromofluoromethane	104	78.7-124		%REC	210988	1	08/04/2015 11:51	NP
Surr: Toluene-d8	99	81.3-120		%REC	210988	1	08/04/2015 11:51	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:** 6-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-203-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 9:15:00 AM
Lab ID:	1507O67-026B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	211043	1	08/04/2015 16:00	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-203-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 9:15:00 AM
Lab ID:	1507O67-026C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210853	1	07/31/2015 14:05	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210811	1	08/03/2015 18:36	IO
Arsenic	BRL	0.0500		mg/L	210811	1	08/03/2015 18:36	IO
Barium	0.0545	0.0200		mg/L	210811	1	08/03/2015 18:36	IO
Beryllium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:36	IO
Cadmium	BRL	0.0050		mg/L	210811	1	08/03/2015 18:36	IO
Chromium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:36	IO
Copper	BRL	0.0100		mg/L	210811	1	08/03/2015 18:36	IO
Lead	BRL	0.0100		mg/L	210811	1	08/03/2015 18:36	IO
Nickel	BRL	0.0200		mg/L	210811	1	08/03/2015 18:36	IO
Selenium	BRL	0.0200		mg/L	210811	1	08/03/2015 18:36	IO
Thallium	BRL	0.0200		mg/L	210811	1	08/03/2015 18:36	IO
Vanadium	0.0176	0.0100		mg/L	210811	1	08/03/2015 18:36	IO
Zinc	BRL	0.0200		mg/L	210811	1	08/03/2015 18:36	IO

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-203-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 9:15:00 AM
Lab ID:	1507O67-026D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210834	1	08/03/2015 19:01	YH
Acenaphthylene	BRL	1.0		ug/L	210834	1	08/03/2015 19:01	YH
Acenaphthene	BRL	0.50		ug/L	210834	1	08/03/2015 19:01	YH
Fluorene	BRL	0.10		ug/L	210834	1	08/03/2015 19:01	YH
Phenanthrene	BRL	0.050		ug/L	210834	1	08/03/2015 19:01	YH
Anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 19:01	YH
Fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 19:01	YH
Pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 19:01	YH
Benz(a)anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 19:01	YH
Chrysene	BRL	0.050		ug/L	210834	1	08/03/2015 19:01	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 19:01	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210834	1	08/03/2015 19:01	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 19:01	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 19:01	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210834	1	08/03/2015 19:01	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210834	1	08/03/2015 19:01	YH
Surr: 4-Terphenyl-d14	96.7	55.4-136		%REC	210834	1	08/03/2015 19:01	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-408DR-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 10:31:00 AM
Lab ID:	1507O67-027A	**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	210988	1	08/04/2015 12:14	NP
Benzene	BRL	5.0		ug/L	210988	1	08/04/2015 12:14	NP
Carbon disulfide	BRL	5.0		ug/L	210988	1	08/04/2015 12:14	NP
Ethylbenzene	BRL	5.0		ug/L	210988	1	08/04/2015 12:14	NP
Methylene chloride	BRL	5.0		ug/L	210988	1	08/04/2015 12:14	NP
Toluene	BRL	5.0		ug/L	210988	1	08/04/2015 12:14	NP
Trichloroethene	BRL	5.0		ug/L	210988	1	08/04/2015 12:14	NP
Xylenes, Total	BRL	5.0		ug/L	210988	1	08/04/2015 12:14	NP
Surr: 4-Bromofluorobenzene	80.5	70.6-123		%REC	210988	1	08/04/2015 12:14	NP
Surr: Dibromofluoromethane	105	78.7-124		%REC	210988	1	08/04/2015 12:14	NP
Surr: Toluene-d8	98.5	81.3-120		%REC	210988	1	08/04/2015 12:14	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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-408DR-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 10:31:00 AM
Lab ID:	1507O67-027B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	211043	1	08/04/2015 16:00	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-408DR-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 10:31:00 AM
Lab ID:	1507O67-027C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210853	1	07/31/2015 14:07	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210811	1	08/03/2015 18:40	IO
Arsenic	BRL	0.0500		mg/L	210811	1	08/03/2015 18:40	IO
Barium	0.551	0.0200		mg/L	210811	1	08/03/2015 18:40	IO
Beryllium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:40	IO
Cadmium	BRL	0.0050		mg/L	210811	1	08/03/2015 18:40	IO
Chromium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:40	IO
Copper	BRL	0.0100		mg/L	210811	1	08/03/2015 18:40	IO
Lead	BRL	0.0100		mg/L	210811	1	08/03/2015 18:40	IO
Nickel	BRL	0.0200		mg/L	210811	1	08/03/2015 18:40	IO
Selenium	BRL	0.0200		mg/L	210811	1	08/03/2015 18:40	IO
Thallium	BRL	0.0200		mg/L	210811	1	08/03/2015 18:40	IO
Vanadium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:40	IO
Zinc	BRL	0.0200		mg/L	210811	1	08/03/2015 18:40	IO

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-408DR-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 10:31:00 AM
Lab ID:	1507O67-027D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	0.63	0.50		ug/L	210834	1	08/03/2015 19:28	YH
Acenaphthylene	BRL	1.0		ug/L	210834	1	08/03/2015 19:28	YH
Acenaphthene	22	5.0		ug/L	210834	10	08/03/2015 21:34	YH
Fluorene	1.2	0.10		ug/L	210834	1	08/03/2015 19:28	YH
Phenanthrene	4.2	0.050		ug/L	210834	1	08/03/2015 19:28	YH
Anthracene	0.69	0.050		ug/L	210834	1	08/03/2015 19:28	YH
Fluoranthene	0.16	0.10		ug/L	210834	1	08/03/2015 19:28	YH
Pyrene	0.15	0.050		ug/L	210834	1	08/03/2015 19:28	YH
Benz(a)anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 19:28	YH
Chrysene	BRL	0.050		ug/L	210834	1	08/03/2015 19:28	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 19:28	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210834	1	08/03/2015 19:28	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 19:28	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 19:28	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210834	1	08/03/2015 19:28	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210834	1	08/03/2015 19:28	YH
Surr: 4-Terphenyl-d14	96.1	55.4-136		%REC	210834	1	08/03/2015 19:28	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-313-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 10:40:00 AM
Lab ID:	1507O67-028A	**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	210988	1	08/04/2015 12:37	NP
Benzene	BRL	5.0		ug/L	210988	1	08/04/2015 12:37	NP
Carbon disulfide	BRL	5.0		ug/L	210988	1	08/04/2015 12:37	NP
Ethylbenzene	BRL	5.0		ug/L	210988	1	08/04/2015 12:37	NP
Methylene chloride	BRL	5.0		ug/L	210988	1	08/04/2015 12:37	NP
Toluene	BRL	5.0		ug/L	210988	1	08/04/2015 12:37	NP
Trichloroethene	BRL	5.0		ug/L	210988	1	08/04/2015 12:37	NP
Xylenes, Total	BRL	5.0		ug/L	210988	1	08/04/2015 12:37	NP
Surr: 4-Bromofluorobenzene	79.7	70.6-123		%REC	210988	1	08/04/2015 12:37	NP
Surr: Dibromofluoromethane	104	78.7-124		%REC	210988	1	08/04/2015 12:37	NP
Surr: Toluene-d8	99.9	81.3-120		%REC	210988	1	08/04/2015 12:37	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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-313-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 10:40:00 AM
Lab ID:	1507O67-028B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	211043	1	08/04/2015 16:00	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-313-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 10:40:00 AM
Lab ID:	1507O67-028C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210853	1	07/31/2015 14:09	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210811	1	08/03/2015 18:43	IO
Arsenic	BRL	0.0500		mg/L	210811	1	08/03/2015 18:43	IO
Barium	0.213	0.0200		mg/L	210811	1	08/03/2015 18:43	IO
Beryllium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:43	IO
Cadmium	BRL	0.0050		mg/L	210811	1	08/03/2015 18:43	IO
Chromium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:43	IO
Copper	BRL	0.0100		mg/L	210811	1	08/03/2015 18:43	IO
Lead	BRL	0.0100		mg/L	210811	1	08/03/2015 18:43	IO
Nickel	BRL	0.0200		mg/L	210811	1	08/03/2015 18:43	IO
Selenium	BRL	0.0200		mg/L	210811	1	08/03/2015 18:43	IO
Thallium	BRL	0.0200		mg/L	210811	1	08/03/2015 18:43	IO
Vanadium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:43	IO
Zinc	BRL	0.0200		mg/L	210811	1	08/03/2015 18:43	IO

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-313-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 10:40:00 AM
Lab ID:	1507O67-028D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210834	1	08/03/2015 19:55	YH
Acenaphthylene	BRL	1.0		ug/L	210834	1	08/03/2015 19:55	YH
Acenaphthene	BRL	0.50		ug/L	210834	1	08/03/2015 19:55	YH
Fluorene	BRL	0.10		ug/L	210834	1	08/03/2015 19:55	YH
Phenanthrene	BRL	0.050		ug/L	210834	1	08/03/2015 19:55	YH
Anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 19:55	YH
Fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 19:55	YH
Pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 19:55	YH
Benz(a)anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 19:55	YH
Chrysene	BRL	0.050		ug/L	210834	1	08/03/2015 19:55	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 19:55	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210834	1	08/03/2015 19:55	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 19:55	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 19:55	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210834	1	08/03/2015 19:55	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210834	1	08/03/2015 19:55	YH
Surr: 4-Terphenyl-d14	99.9	55.4-136		%REC	210834	1	08/03/2015 19:55	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-504BR-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 10:45:00 AM
Lab ID:	1507O67-029A	**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	210988	1	08/04/2015 13:00	NP
Benzene	210	50		ug/L	210988	10	08/04/2015 14:09	NP
Carbon disulfide	BRL	5.0		ug/L	210988	1	08/04/2015 13:00	NP
Ethylbenzene	22	5.0		ug/L	210988	1	08/04/2015 13:00	NP
Methylene chloride	BRL	5.0		ug/L	210988	1	08/04/2015 13:00	NP
Toluene	80	5.0		ug/L	210988	1	08/04/2015 13:00	NP
Trichloroethene	BRL	5.0		ug/L	210988	1	08/04/2015 13:00	NP
Xylenes, Total	25	5.0		ug/L	210988	1	08/04/2015 13:00	NP
Surr: 4-Bromofluorobenzene	80.9	70.6-123		%REC	210988	10	08/04/2015 14:09	NP
Surr: 4-Bromofluorobenzene	84.3	70.6-123		%REC	210988	1	08/04/2015 13:00	NP
Surr: Dibromofluoromethane	102	78.7-124		%REC	210988	10	08/04/2015 14:09	NP
Surr: Dibromofluoromethane	103	78.7-124		%REC	210988	1	08/04/2015 13:00	NP
Surr: Toluene-d8	96.3	81.3-120		%REC	210988	1	08/04/2015 13:00	NP
Surr: Toluene-d8	96.4	81.3-120		%REC	210988	10	08/04/2015 14:09	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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-504BR-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 10:45:00 AM
Lab ID:	1507O67-029B	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	211043	1	08/04/2015 16:00	PF

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-504BR-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 10:45:00 AM
Lab ID:	1507O67-029C	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	210853	1	07/31/2015 14:11	TA
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210811	1	08/03/2015 18:47	IO
Arsenic	BRL	0.0500		mg/L	210811	1	08/03/2015 18:47	IO
Barium	0.186	0.0200		mg/L	210811	1	08/03/2015 18:47	IO
Beryllium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:47	IO
Cadmium	BRL	0.0050		mg/L	210811	1	08/03/2015 18:47	IO
Chromium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:47	IO
Copper	BRL	0.0100		mg/L	210811	1	08/03/2015 18:47	IO
Lead	BRL	0.0100		mg/L	210811	1	08/03/2015 18:47	IO
Nickel	BRL	0.0200		mg/L	210811	1	08/03/2015 18:47	IO
Selenium	BRL	0.0200		mg/L	210811	1	08/03/2015 18:47	IO
Thallium	BRL	0.0200		mg/L	210811	1	08/03/2015 18:47	IO
Vanadium	BRL	0.0100		mg/L	210811	1	08/03/2015 18:47	IO
Zinc	0.0987	0.0200		mg/L	210811	1	08/03/2015 18:47	IO

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-504BR-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 10:45:00 AM
Lab ID:	1507O67-029D	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
SIM Polynuclear Aromatic Hydrocarbons	**SW8270D**			**(SW3510C)**				
Naphthalene	36	5.0		ug/L	210834	10	08/04/2015 12:37	YH
Acenaphthylene	2.1	1.0		ug/L	210834	1	08/03/2015 20:23	YH
Acenaphthene	BRL	0.50		ug/L	210834	1	08/03/2015 20:23	YH
Fluorene	0.58	0.10		ug/L	210834	1	08/03/2015 20:23	YH
Phenanthrene	0.57	0.050		ug/L	210834	1	08/03/2015 20:23	YH
Anthracene	0.067	0.050		ug/L	210834	1	08/03/2015 20:23	YH
Fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 20:23	YH
Pyrene	0.084	0.050		ug/L	210834	1	08/03/2015 20:23	YH
Benz(a)anthracene	BRL	0.050		ug/L	210834	1	08/03/2015 20:23	YH
Chrysene	BRL	0.050		ug/L	210834	1	08/03/2015 20:23	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210834	1	08/03/2015 20:23	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210834	1	08/03/2015 20:23	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 20:23	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210834	1	08/03/2015 20:23	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210834	1	08/03/2015 20:23	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210834	1	08/03/2015 20:23	YH
Surr: 4-Terphenyl-d14	86.2	55.4-136		%REC	210834	1	08/03/2015 20:23	YH

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-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	TB-01-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015
Lab ID:	1507O67-030A	**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	210988	1	08/03/2015 22:02	NP
Benzene	BRL	5.0		ug/L	210988	1	08/03/2015 22:02	NP
Carbon disulfide	BRL	5.0		ug/L	210988	1	08/03/2015 22:02	NP
Ethylbenzene	BRL	5.0		ug/L	210988	1	08/03/2015 22:02	NP
Methylene chloride	BRL	5.0		ug/L	210988	1	08/03/2015 22:02	NP
Toluene	BRL	5.0		ug/L	210988	1	08/03/2015 22:02	NP
Trichloroethene	BRL	5.0		ug/L	210988	1	08/03/2015 22:02	NP
Xylenes, Total	BRL	5.0		ug/L	210988	1	08/03/2015 22:02	NP
Surr: 4-Bromofluorobenzene	76.7	70.6-123		%REC	210988	1	08/03/2015 22:02	NP
Surr: Dibromofluoromethane	105	78.7-124		%REC	210988	1	08/03/2015 22:02	NP
Surr: Toluene-d8	99.4	81.3-120		%REC	210988	1	08/03/2015 22:02	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: 6-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	TB-02-20150729-01
Lab Order	1507O67	**Tag Number:**	
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015
Lab ID:	1507O67-031A	**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	210988	1	08/03/2015 22:28	NP
Benzene	BRL	5.0		ug/L	210988	1	08/03/2015 22:28	NP
Carbon disulfide	BRL	5.0		ug/L	210988	1	08/03/2015 22:28	NP
Ethylbenzene	BRL	5.0		ug/L	210988	1	08/03/2015 22:28	NP
Methylene chloride	BRL	5.0		ug/L	210988	1	08/03/2015 22:28	NP
Toluene	BRL	5.0		ug/L	210988	1	08/03/2015 22:28	NP
Trichloroethene	BRL	5.0		ug/L	210988	1	08/03/2015 22:28	NP
Xylenes, Total	BRL	5.0		ug/L	210988	1	08/03/2015 22:28	NP
Surr: 4-Bromofluorobenzene	77.9	70.6-123		%REC	210988	1	08/03/2015 22:28	NP
Surr: Dibromofluoromethane	106	78.7-124		%REC	210988	1	08/03/2015 22:28	NP
Surr: Toluene-d8	100	81.3-120		%REC	210988	1	08/03/2015 22:28	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.

Sample/Cooler Receipt Checklist

Client ERM Work Order Number 1507067

Checklist completed by Mady 7/29/15
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 3.1 Cooler #2 3.7 Cooler #3 3.8 Cooler #4 3.7 Cooler#5 3.6 Cooler #6 3.5

#7 3.8

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes __ No ✓

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Sample Condition: Good ✓ MS 7/29 Adjusted? _____ Checked by MS

Other(Explain) Revised / Broken Amber

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Analytical Environmental Services, Inc

Date: 6-Aug-15

Client: ERM-Southeast
Project Name: AGL Augusta
Lab Order: 1507O67

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1507O67-001A	MW-207-20150727-01	7/27/2015 3:55:00PM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 8:53:00AM	08/03/2015
1507O67-001B	MW-207-20150727-01	7/27/2015 3:55:00PM	Groundwater	Total Cyanide		8/3/2015 12:45:00PM	08/03/2015
1507O67-001C	MW-207-20150727-01	7/27/2015 3:55:00PM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-001C	MW-207-20150727-01	7/27/2015 3:55:00PM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/04/2015
1507O67-001C	MW-207-20150727-01	7/27/2015 3:55:00PM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-001D	MW-207-20150727-01	7/27/2015 3:55:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/30/2015 2:00:00PM	07/31/2015
1507O67-002A	MW-310BR-20150727-01	7/27/2015 6:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 8:53:00AM	08/03/2015
1507O67-002B	MW-310BR-20150727-01	7/27/2015 6:10:00PM	Groundwater	Total Cyanide		8/3/2015 12:45:00PM	08/03/2015
1507O67-002C	MW-310BR-20150727-01	7/27/2015 6:10:00PM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-002C	MW-310BR-20150727-01	7/27/2015 6:10:00PM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-002D	MW-310BR-20150727-01	7/27/2015 6:10:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/30/2015 2:00:00PM	07/31/2015
1507O67-003A	MW-320-20150727-01	7/27/2015 7:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 8:53:00AM	08/03/2015
1507O67-003B	MW-320-20150727-01	7/27/2015 7:25:00PM	Groundwater	Total Cyanide		8/3/2015 12:45:00PM	08/03/2015
1507O67-003C	MW-320-20150727-01	7/27/2015 7:25:00PM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-003C	MW-320-20150727-01	7/27/2015 7:25:00PM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/04/2015
1507O67-003C	MW-320-20150727-01	7/27/2015 7:25:00PM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-003D	MW-320-20150727-01	7/27/2015 7:25:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/30/2015 2:00:00PM	07/31/2015
1507O67-004A	MW-22-20150728-01	7/28/2015 9:05:00AM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 8:53:00AM	08/03/2015
1507O67-004B	MW-22-20150728-01	7/28/2015 9:05:00AM	Groundwater	Total Cyanide		8/3/2015 12:45:00PM	08/03/2015
1507O67-004C	MW-22-20150728-01	7/28/2015 9:05:00AM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-004C	MW-22-20150728-01	7/28/2015 9:05:00AM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-004D	MW-22-20150728-01	7/28/2015 9:05:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/30/2015 2:00:00PM	07/31/2015
1507O67-005A	MW-306SAP-20150728-01	7/28/2015 9:05:00AM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 8:53:00AM	08/03/2015
1507O67-005B	MW-306SAP-20150728-01	7/28/2015 9:05:00AM	Groundwater	Total Cyanide		8/3/2015 12:45:00PM	08/03/2015
1507O67-005C	MW-306SAP-20150728-01	7/28/2015 9:05:00AM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-005C	MW-306SAP-20150728-01	7/28/2015 9:05:00AM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-005D	MW-306SAP-20150728-01	7/28/2015 9:05:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/30/2015 2:00:00PM	07/31/2015
1507O67-006A	MW-325-20150728-01	7/28/2015 9:08:00AM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 8:53:00AM	08/03/2015
1507O67-006B	MW-325-20150728-01	7/28/2015 9:08:00AM	Groundwater	Total Cyanide		8/3/2015 12:45:00PM	08/03/2015

Analytical Environmental Services, Inc

Date: 6-Aug-15

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Lab Order: 1507O67

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1507O67-006C	MW-325-20150728-01	7/28/2015 9:08:00AM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-006C	MW-325-20150728-01	7/28/2015 9:08:00AM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-006D	MW-325-20150728-01	7/28/2015 9:08:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/30/2015 2:00:00PM	07/31/2015
1507O67-007A	MW-303-20150728-01	7/28/2015 9:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 8:53:00AM	08/03/2015
1507O67-007B	MW-303-20150728-01	7/28/2015 9:30:00AM	Groundwater	Total Cyanide		8/3/2015 12:45:00PM	08/03/2015
1507O67-007C	MW-303-20150728-01	7/28/2015 9:30:00AM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-007C	MW-303-20150728-01	7/28/2015 9:30:00AM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/04/2015
1507O67-007C	MW-303-20150728-01	7/28/2015 9:30:00AM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-007D	MW-303-20150728-01	7/28/2015 9:30:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/30/2015 2:00:00PM	07/31/2015
1507O67-008A	MW-214-20150728-01	7/28/2015 10:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 8:53:00AM	08/03/2015
1507O67-008B	MW-214-20150728-01	7/28/2015 10:30:00AM	Groundwater	Total Cyanide		8/3/2015 12:45:00PM	08/03/2015
1507O67-008C	MW-214-20150728-01	7/28/2015 10:30:00AM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-008C	MW-214-20150728-01	7/28/2015 10:30:00AM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-008D	MW-214-20150728-01	7/28/2015 10:30:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/30/2015 2:00:00PM	07/31/2015
1507O67-009A	MW-306D-20150728-01	7/28/2015 10:30:00AM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 8:53:00AM	08/04/2015
1507O67-009B	MW-306D-20150728-01	7/28/2015 10:30:00AM	Groundwater	Total Cyanide		8/3/2015 12:45:00PM	08/03/2015
1507O67-009C	MW-306D-20150728-01	7/28/2015 10:30:00AM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-009C	MW-306D-20150728-01	7/28/2015 10:30:00AM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-009D	MW-306D-20150728-01	7/28/2015 10:30:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/30/2015 2:00:00PM	07/31/2015
1507O67-010A	MW-602-20150728-01	7/28/2015 10:47:00AM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 8:53:00AM	08/04/2015
1507O67-010B	MW-602-20150728-01	7/28/2015 10:47:00AM	Groundwater	Total Cyanide		8/3/2015 12:45:00PM	08/03/2015
1507O67-010C	MW-602-20150728-01	7/28/2015 10:47:00AM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-010C	MW-602-20150728-01	7/28/2015 10:47:00AM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/04/2015
1507O67-010C	MW-602-20150728-01	7/28/2015 10:47:00AM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-010D	MW-602-20150728-01	7/28/2015 10:47:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/30/2015 2:00:00PM	07/31/2015
1507O67-011A	MW-309BR-20150728-01	7/28/2015 11:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 8:53:00AM	08/04/2015
1507O67-011B	MW-309BR-20150728-01	7/28/2015 11:00:00AM	Groundwater	Total Cyanide		8/3/2015 12:45:00PM	08/03/2015
1507O67-011C	MW-309BR-20150728-01	7/28/2015 11:00:00AM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-011C	MW-309BR-20150728-01	7/28/2015 11:00:00AM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015

Analytical Environmental Services, Inc

Date: 6-Aug-15

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Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1507O67-011D	MW-309BR-20150728-01	7/28/2015 11:00:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/03/2015
1507O67-012A	MW-202DR-20150728-01	7/28/2015 12:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 8:53:00AM	08/04/2015
1507O67-012B	MW-202DR-20150728-01	7/28/2015 12:10:00PM	Groundwater	Total Cyanide		8/3/2015 12:45:00PM	08/03/2015
1507O67-012C	MW-202DR-20150728-01	7/28/2015 12:10:00PM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-012C	MW-202DR-20150728-01	7/28/2015 12:10:00PM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-012D	MW-202DR-20150728-01	7/28/2015 12:10:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/03/2015
1507O67-013A	MW-402D-20150728-01	7/28/2015 12:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 8:53:00AM	08/04/2015
1507O67-013B	MW-402D-20150728-01	7/28/2015 12:10:00PM	Groundwater	Total Cyanide		8/3/2015 12:45:00PM	08/03/2015
1507O67-013C	MW-402D-20150728-01	7/28/2015 12:10:00PM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-013C	MW-402D-20150728-01	7/28/2015 12:10:00PM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-013D	MW-402D-20150728-01	7/28/2015 12:10:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/03/2015
1507O67-014A	MW-307D-20150728-01	7/28/2015 12:35:00PM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 8:53:00AM	08/04/2015
1507O67-014B	MW-307D-20150728-01	7/28/2015 12:35:00PM	Groundwater	Total Cyanide		8/3/2015 12:45:00PM	08/03/2015
1507O67-014C	MW-307D-20150728-01	7/28/2015 12:35:00PM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-014C	MW-307D-20150728-01	7/28/2015 12:35:00PM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-014D	MW-307D-20150728-01	7/28/2015 12:35:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/03/2015
1507O67-015A	MW-307SAP-20150728-01	7/28/2015 2:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 8:53:00AM	08/04/2015
1507O67-015B	MW-307SAP-20150728-01	7/28/2015 2:50:00PM	Groundwater	Total Cyanide		8/3/2015 12:45:00PM	08/03/2015
1507O67-015C	MW-307SAP-20150728-01	7/28/2015 2:50:00PM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-015C	MW-307SAP-20150728-01	7/28/2015 2:50:00PM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-015D	MW-307SAP-20150728-01	7/28/2015 2:50:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/03/2015
1507O67-016A	MW-402S-20150728-01	7/28/2015 2:52:00PM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 8:53:00AM	08/03/2015
1507O67-016B	MW-402S-20150728-01	7/28/2015 2:52:00PM	Groundwater	Total Cyanide		8/4/2015 12:30:00PM	08/04/2015
1507O67-016C	MW-402S-20150728-01	7/28/2015 2:52:00PM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-016C	MW-402S-20150728-01	7/28/2015 2:52:00PM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-016D	MW-402S-20150728-01	7/28/2015 2:52:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/03/2015
1507O67-017A	MW-21-20150728-01	7/28/2015 3:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 8:53:00AM	08/04/2015
1507O67-017B	MW-21-20150728-01	7/28/2015 3:45:00PM	Groundwater	Total Cyanide		8/3/2015 12:45:00PM	08/03/2015
1507O67-017C	MW-21-20150728-01	7/28/2015 3:45:00PM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015

Analytical Environmental Services, Inc

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Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1507O67-017C	MW-21-20150728-01	7/28/2015 3:45:00PM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-017D	MW-21-20150728-01	7/28/2015 3:45:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/03/2015
1507O67-018A	MW-319-20150728-01	7/28/2015 4:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 8:53:00AM	08/03/2015
1507O67-018B	MW-319-20150728-01	7/28/2015 4:00:00PM	Groundwater	Total Cyanide		8/4/2015 12:30:00PM	08/04/2015
1507O67-018C	MW-319-20150728-01	7/28/2015 4:00:00PM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-018C	MW-319-20150728-01	7/28/2015 4:00:00PM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-018D	MW-319-20150728-01	7/28/2015 4:00:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/03/2015
1507O67-019A	MW-401SAP-20150728-01	7/28/2015 6:06:00PM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 8:53:00AM	08/04/2015
1507O67-019B	MW-401SAP-20150728-01	7/28/2015 6:06:00PM	Groundwater	Total Cyanide		8/3/2015 12:45:00PM	08/03/2015
1507O67-019C	MW-401SAP-20150728-01	7/28/2015 6:06:00PM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-019C	MW-401SAP-20150728-01	7/28/2015 6:06:00PM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-019D	MW-401SAP-20150728-01	7/28/2015 6:06:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/03/2015
1507O67-020A	MW-310SAP-20150728-01	7/28/2015 4:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 8:53:00AM	08/04/2015
1507O67-020B	MW-310SAP-20150728-01	7/28/2015 4:30:00PM	Groundwater	Total Cyanide		8/4/2015 12:30:00PM	08/04/2015
1507O67-020C	MW-310SAP-20150728-01	7/28/2015 4:30:00PM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-020C	MW-310SAP-20150728-01	7/28/2015 4:30:00PM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-020D	MW-310SAP-20150728-01	7/28/2015 4:30:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/03/2015
1507O67-021A	MW-213-20150728-01	7/28/2015 7:15:00PM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 9:15:00PM	08/03/2015
1507O67-021B	MW-213-20150728-01	7/28/2015 7:15:00PM	Groundwater	Total Cyanide		8/4/2015 12:30:00PM	08/04/2015
1507O67-021C	MW-213-20150728-01	7/28/2015 7:15:00PM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-021C	MW-213-20150728-01	7/28/2015 7:15:00PM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-021D	MW-213-20150728-01	7/28/2015 7:15:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/03/2015
1507O67-021D	MW-213-20150728-01	7/28/2015 7:15:00PM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/04/2015
1507O67-022A	MW-311-20150729-01	7/29/2015 8:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 9:15:00PM	08/04/2015
1507O67-022B	MW-311-20150729-01	7/29/2015 8:00:00AM	Groundwater	Total Cyanide		8/4/2015 12:30:00PM	08/04/2015
1507O67-022C	MW-311-20150729-01	7/29/2015 8:00:00AM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-022C	MW-311-20150729-01	7/29/2015 8:00:00AM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-022D	MW-311-20150729-01	7/29/2015 8:00:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/03/2015
1507O67-022D	MW-311-20150729-01	7/29/2015 8:00:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/04/2015

Analytical Environmental Services, Inc

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Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1507O67-023A	MW-408S-20150729-01	7/29/2015 8:36:00AM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 9:15:00PM	08/04/2015
1507O67-023B	MW-408S-20150729-01	7/29/2015 8:36:00AM	Groundwater	Total Cyanide		8/4/2015 12:30:00PM	08/04/2015
1507O67-023C	MW-408S-20150729-01	7/29/2015 8:36:00AM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-023C	MW-408S-20150729-01	7/29/2015 8:36:00AM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-023D	MW-408S-20150729-01	7/29/2015 8:36:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/03/2015
1507O67-024A	MW-324-20150729-01	7/29/2015 8:50:00AM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 9:15:00PM	08/04/2015
1507O67-024B	MW-324-20150729-01	7/29/2015 8:50:00AM	Groundwater	Total Cyanide		8/4/2015 12:30:00PM	08/04/2015
1507O67-024C	MW-324-20150729-01	7/29/2015 8:50:00AM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-024C	MW-324-20150729-01	7/29/2015 8:50:00AM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-024D	MW-324-20150729-01	7/29/2015 8:50:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/03/2015
1507O67-025A	MW-306BR-20150729-01	7/29/2015 9:00:00AM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 9:15:00PM	08/04/2015
1507O67-025B	MW-306BR-20150729-01	7/29/2015 9:00:00AM	Groundwater	Total Cyanide		8/4/2015 12:30:00PM	08/04/2015
1507O67-025C	MW-306BR-20150729-01	7/29/2015 9:00:00AM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-025C	MW-306BR-20150729-01	7/29/2015 9:00:00AM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-025D	MW-306BR-20150729-01	7/29/2015 9:00:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/03/2015
1507O67-026A	MW-203-20150729-01	7/29/2015 9:15:00AM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 9:15:00PM	08/04/2015
1507O67-026B	MW-203-20150729-01	7/29/2015 9:15:00AM	Groundwater	Total Cyanide		8/4/2015 12:30:00PM	08/04/2015
1507O67-026C	MW-203-20150729-01	7/29/2015 9:15:00AM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-026C	MW-203-20150729-01	7/29/2015 9:15:00AM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-026D	MW-203-20150729-01	7/29/2015 9:15:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/03/2015
1507O67-027A	MW-408DR-20150729-01	7/29/2015 10:31:00AM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 9:15:00PM	08/04/2015
1507O67-027B	MW-408DR-20150729-01	7/29/2015 10:31:00AM	Groundwater	Total Cyanide		8/4/2015 12:30:00PM	08/04/2015
1507O67-027C	MW-408DR-20150729-01	7/29/2015 10:31:00AM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-027C	MW-408DR-20150729-01	7/29/2015 10:31:00AM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-027D	MW-408DR-20150729-01	7/29/2015 10:31:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/03/2015
1507O67-028A	MW-313-20150729-01	7/29/2015 10:40:00AM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 9:15:00PM	08/04/2015
1507O67-028B	MW-313-20150729-01	7/29/2015 10:40:00AM	Groundwater	Total Cyanide		8/4/2015 12:30:00PM	08/04/2015
1507O67-028C	MW-313-20150729-01	7/29/2015 10:40:00AM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-028C	MW-313-20150729-01	7/29/2015 10:40:00AM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015

Client: ERM-Southeast
Project Name: AGL Augusta
Lab Order: 1507O67

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1507O67-028D	MW-313-20150729-01	7/29/2015 10:40:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/03/2015
1507O67-029A	MW-504BR-20150729-01	7/29/2015 10:45:00AM	Groundwater	Volatile Organic Compounds by GC/MS		8/3/2015 9:15:00PM	08/04/2015
1507O67-029B	MW-504BR-20150729-01	7/29/2015 10:45:00AM	Groundwater	Total Cyanide		8/4/2015 12:30:00PM	08/04/2015
1507O67-029C	MW-504BR-20150729-01	7/29/2015 10:45:00AM	Groundwater	TOTAL METALS BY ICP		7/31/2015 10:55:00AM	08/03/2015
1507O67-029C	MW-504BR-20150729-01	7/29/2015 10:45:00AM	Groundwater	TOTAL MERCURY		7/31/2015 9:40:00AM	07/31/2015
1507O67-029D	MW-504BR-20150729-01	7/29/2015 10:45:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/03/2015
1507O67-029D	MW-504BR-20150729-01	7/29/2015 10:45:00AM	Groundwater	Polynuclear Aromatic Hydrocarbons		7/31/2015 1:00:00PM	08/04/2015
1507O67-030A	TB-01-20150729-01	7/29/2015 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		8/3/2015 9:15:00PM	08/03/2015
1507O67-031A	TB-02-20150729-01	7/29/2015 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		8/3/2015 9:15:00PM	08/03/2015

Client: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: **210794**

Sample ID: **MB-210794** Client ID: Units: **ug/L** Prep Date: **07/30/2015** Run No: **297067**
SampleType: **MBLK** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210794** Analysis Date: **07/31/2015** Seq No: **6338727**

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	1.972	0	2.000		98.6	55.4	136				

Sample ID: **LCS-210794** Client ID: Units: **ug/L** Prep Date: **07/30/2015** Run No: **297067**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210794** Analysis Date: **07/31/2015** Seq No: **6338728**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.647	0.50	2.000		82.4	66.3	118				
Acenaphthylene	1.569	1.0	2.000		78.5	64	120				
Anthracene	1.631	0.050	2.000		81.5	64.6	127				
Benz(a)anthracene	1.639	0.050	2.000		82.0	60.6	137				
Benzo(a)pyrene	1.640	0.050	2.000		82.0	64	124				

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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210794

Sample ID: **LCS-210794** Client ID: Units: **ug/L** Prep Date: **07/30/2015** Run No: **297067**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210794** Analysis Date: **07/31/2015** Seq No: **6338728**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(b)fluoranthene	1.598	0.10	2.000		79.9	56.4	133				
Benzo(g,h,i)perylene	1.594	0.10	2.000		79.7	49.9	137				
Benzo(k)fluoranthene	1.764	0.050	2.000		88.2	61.7	137				
Chrysene	2.007	0.050	2.000		100	65.5	127				
Dibenz(a,h)anthracene	1.567	0.10	2.000		78.4	52.4	130				
Fluoranthene	1.819	0.10	2.000	0.01385	90.3	67	131				
Fluorene	1.597	0.10	2.000		79.8	68.3	120				
Indeno(1,2,3-cd)pyrene	1.625	0.050	2.000		81.3	50.4	139				
Naphthalene	1.517	0.50	2.000		75.8	61.1	120				
Phenanthrene	1.682	0.050	2.000		84.1	68	119				
Pyrene	1.840	0.050	2.000	0.01753	91.1	62	127				
Surr: 4-Terphenyl-d14	1.976	0	2.000		98.8	55.4	136				

Sample ID: **1507O67-001DMS** Client ID: **MW-207-20150727-01** Units: **ug/L** Prep Date: **07/30/2015** Run No: **297067**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210794** Analysis Date: **07/31/2015** Seq No: **6339383**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.529	0.50	2.000		76.4	45.6	120				
Acenaphthylene	1.518	1.0	2.000		75.9	48.3	124				
Anthracene	1.610	0.050	2.000		80.5	57.7	124				
Benz(a)anthracene	1.911	0.050	2.000		95.5	50.3	143				
Benzo(a)pyrene	1.469	0.050	2.000		73.5	44.2	127				
Benzo(b)fluoranthene	1.459	0.10	2.000		73.0	48.4	125				
Benzo(g,h,i)perylene	1.302	0.10	2.000		65.1	40.2	122				
Benzo(k)fluoranthene	1.471	0.050	2.000		73.6	45.5	122				
Chrysene	1.752	0.050	2.000		87.6	46	124				
Dibenz(a,h)anthracene	1.202	0.10	2.000		60.1	40.1	128				
Fluoranthene	1.733	0.10	2.000	0.01342	86.0	58	127				

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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210794

Sample ID: **1507O67-001DMS** Client ID: **MW-207-20150727-01** Units: **ug/L** Prep Date: **07/30/2015** Run No: **297067**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210794** Analysis Date: **07/31/2015** Seq No: **6339383**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Fluorene	1.622	0.10	2.000		81.1	52.6	124				
Indeno(1,2,3-cd)pyrene	1.283	0.050	2.000		64.2	40.3	129				
Naphthalene	1.338	0.50	2.000		66.9	46.6	120				
Phenanthrene	1.624	0.050	2.000		81.2	50.6	122				
Pyrene	1.893	0.050	2.000	0.01696	93.8	50.1	128				
Surr: 4-Terphenyl-d14	1.985	0	2.000		99.3	55.4	136				

Sample ID: **1507O67-001DMSD** Client ID: **MW-207-20150727-01** Units: **ug/L** Prep Date: **07/30/2015** Run No: **297067**
SampleType: **MSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210794** Analysis Date: **07/31/2015** Seq No: **6339384**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.489	0.50	2.000		74.4	45.6	120	1.529	2.65	29.4	
Acenaphthylene	1.472	1.0	2.000		73.6	48.3	124	1.518	3.09	32.5	
Anthracene	1.499	0.050	2.000		74.9	57.7	124	1.610	7.14	21.9	
Benz(a)anthracene	1.758	0.050	2.000		87.9	50.3	143	1.911	8.33	26.8	
Benzo(a)pyrene	1.396	0.050	2.000		69.8	44.2	127	1.469	5.10	40.9	
Benzo(b)fluoranthene	1.389	0.10	2.000		69.5	48.4	125	1.459	4.91	24.2	
Benzo(g,h,i)perylene	1.211	0.10	2.000		60.5	40.2	122	1.302	7.21	26.2	
Benzo(k)fluoranthene	1.438	0.050	2.000		71.9	45.5	122	1.471	2.32	23.3	
Chrysene	1.564	0.050	2.000		78.2	46	124	1.752	11.4	25	
Dibenz(a,h)anthracene	1.114	0.10	2.000		55.7	40.1	128	1.202	7.59	23.6	
Fluoranthene	1.614	0.10	2.000	0.01342	80.0	58	127	1.733	7.14	23.5	
Fluorene	1.546	0.10	2.000		77.3	52.6	124	1.622	4.77	31.5	
Indeno(1,2,3-cd)pyrene	1.220	0.050	2.000		61.0	40.3	129	1.283	5.02	28.8	
Naphthalene	1.392	0.50	2.000		69.6	46.6	120	1.338	3.97	22.9	
Phenanthrene	1.525	0.050	2.000		76.3	50.6	122	1.624	6.27	20.2	
Pyrene	1.664	0.050	2.000	0.01696	82.4	50.1	128	1.893	12.8	24.7	
Surr: 4-Terphenyl-d14	1.638	0	2.000		81.9	55.4	136	1.985	0	0	

Qualifiers:
- > Greater than Result value
- BRL Below reporting limit
- J Estimated value detected below Reporting Limit
- Rpt Lim Reporting Limit
- < Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix
- B Analyte detected in the associated method blank
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

Client: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210794

Analytical Environmental Services, Inc **Date:** 6-Aug-15

Client: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210811

Sample ID: **MB-210811** Client ID: Units: **mg/L** Prep Date: **07/30/2015** Run No: **297030**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010C** BatchID: **210811** Analysis Date: **07/30/2015** Seq No: **6337603**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.0200									
Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Beryllium	BRL	0.0100									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Copper	BRL	0.0100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Selenium	BRL	0.0200									
Thallium	BRL	0.0200									
Vanadium	BRL	0.0100									
Zinc	BRL	0.0200									

Sample ID: **LCS-210811** Client ID: Units: **mg/L** Prep Date: **07/30/2015** Run No: **297030**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010C** BatchID: **210811** Analysis Date: **07/30/2015** Seq No: **6337604**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.022	0.0200	1.000		102	80	120				
Arsenic	1.018	0.0500	1.000		102	80	120				
Barium	1.013	0.0200	1.000		101	80	120				
Beryllium	1.013	0.0100	1.000		101	80	120				
Cadmium	1.022	0.0050	1.000		102	80	120				

Qualifiers:
> Greater than Result value
BRL Below reporting limit
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit
< Less than Result value
E Estimated (value above quantitation range)
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
B Analyte detected in the associated method blank
H Holding times for preparation or analysis exceeded
R RPD outside limits due to matrix

Client: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210811

Sample ID: **LCS-210811** Client ID: Units: **mg/L** Prep Date: **07/30/2015** Run No: **297030**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010C** BatchID: **210811** Analysis Date: **07/30/2015** Seq No: **6337604**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	1.003	0.0100	1.000		100	80	120				
Copper	0.9911	0.0100	1.000		99.1	80	120				
Lead	1.020	0.0100	1.000		102	80	120				
Nickel	1.023	0.0200	1.000		102	80	120				
Selenium	1.007	0.0200	1.000		101	80	120				
Thallium	0.9922	0.0200	1.000		99.2	80	120				
Vanadium	1.013	0.0100	1.000		101	80	120				
Zinc	1.029	0.0200	1.000	0.004638	102	80	120				

Sample ID: **1507N66-001CMS** Client ID: Units: **mg/L** Prep Date: **07/30/2015** Run No: **297030**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010C** BatchID: **210811** Analysis Date: **07/30/2015** Seq No: **6337608**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.006	0.0200	1.000		101	75	125				
Arsenic	1.011	0.0500	1.000		101	75	125				
Barium	1.030	0.0200	1.000	0.02485	101	75	125				
Beryllium	1.004	0.0100	1.000		100	75	125				
Cadmium	1.011	0.0050	1.000		101	75	125				
Chromium	0.9997	0.0100	1.000	0.004070	99.6	75	125				
Copper	0.9882	0.0100	1.000		98.8	75	125				
Lead	1.004	0.0100	1.000		100	75	125				
Nickel	1.014	0.0200	1.000	0.0007402	101	75	125				
Selenium	1.004	0.0200	1.000		100	75	125				
Thallium	0.9840	0.0200	1.000		98.4	75	125				
Vanadium	1.015	0.0100	1.000	0.001523	101	75	125				
Zinc	1.022	0.0200	1.000	0.006338	102	75	125				

Qualifiers:
> Greater than Result value
BRL Below reporting limit
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit
< Less than Result value
E Estimated (value above quantitation range)
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
B Analyte detected in the associated method blank
H Holding times for preparation or analysis exceeded
R RPD outside limits due to matrix

Analytical Environmental Services, Inc

Date: 6-Aug-15

Client: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: **210811**

Sample ID: **1507N66-001CMSD** Client ID: Units: **mg/L** Prep Date: **07/30/2015** Run No: **297030**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010C** BatchID: **210811** Analysis Date: **07/30/2015** Seq No: **6337609**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.001	0.0200	1.000		100	75	125	1.006	0.437	20	
Arsenic	1.005	0.0500	1.000		100	75	125	1.011	0.568	20	
Barium	1.020	0.0200	1.000	0.02485	99.5	75	125	1.030	1.05	20	
Beryllium	0.9919	0.0100	1.000		99.2	75	125	1.004	1.20	20	
Cadmium	0.9985	0.0050	1.000		99.9	75	125	1.011	1.29	20	
Chromium	0.9900	0.0100	1.000	0.004070	98.6	75	125	0.9997	0.977	20	
Copper	0.9759	0.0100	1.000		97.6	75	125	0.9882	1.24	20	
Lead	0.9951	0.0100	1.000		99.5	75	125	1.004	0.884	20	
Nickel	1.000	0.0200	1.000	0.0007402	99.9	75	125	1.014	1.39	20	
Selenium	1.004	0.0200	1.000		100	75	125	1.004	0.068	20	
Thallium	0.9739	0.0200	1.000		97.4	75	125	0.9840	1.02	20	
Vanadium	1.003	0.0100	1.000	0.001523	100	75	125	1.015	1.12	20	
Zinc	1.012	0.0200	1.000	0.006338	101	75	125	1.022	0.979	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210814

Sample ID: **MB-210814** Client ID: Units: **mg/L** Prep Date: **07/31/2015** Run No: **297173**
SampleType: **MBLK** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **210814** Analysis Date: **08/03/2015** Seq No: **6340854**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.0200									
Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Beryllium	BRL	0.0100									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Copper	BRL	0.0100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Selenium	BRL	0.0200									
Thallium	BRL	0.0200									
Vanadium	BRL	0.0100									
Zinc	BRL	0.0200									

Sample ID: **LCS-210814** Client ID: Units: **mg/L** Prep Date: **07/31/2015** Run No: **297173**
SampleType: **LCS** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **210814** Analysis Date: **08/03/2015** Seq No: **6340857**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.045	0.0200	1.000		104	80	120				
Arsenic	1.019	0.0500	1.000		102	80	120				
Barium	1.050	0.0200	1.000		105	80	120				
Beryllium	1.058	0.0100	1.000		106	80	120				
Cadmium	1.033	0.0050	1.000		103	80	120				
Chromium	1.052	0.0100	1.000		105	80	120				
Copper	1.051	0.0100	1.000		105	80	120				
Lead	1.043	0.0100	1.000		104	80	120				
Nickel	1.045	0.0200	1.000		105	80	120				
Selenium	1.013	0.0200	1.000		101	80	120				

Qualifiers:
> Greater than Result value
BRL Below reporting limit
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit
< Less than Result value
E Estimated (value above quantitation range)
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
B Analyte detected in the associated method blank
H Holding times for preparation or analysis exceeded
R RPD outside limits due to matrix

Client: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210814

Sample ID: **LCS-210814** Client ID: Units: **mg/L** Prep Date: **07/31/2015** Run No: **297173**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010C** BatchID: **210814** Analysis Date: **08/03/2015** Seq No: **6340857**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Thallium	1.049	0.0200	1.000		105	80	120				
Vanadium	1.059	0.0100	1.000		106	80	120				
Zinc	1.024	0.0200	1.000		102	80	120				

Sample ID: **1507O67-001CMS** Client ID: **MW-207-20150727-01** Units: **mg/L** Prep Date: **07/31/2015** Run No: **297173**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010C** BatchID: **210814** Analysis Date: **08/03/2015** Seq No: **6340859**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9938	0.0200	1.000		99.4	75	125				
Arsenic	0.9922	0.0500	1.000	0.004370	98.8	75	125				
Barium	1.298	0.0200	1.000	0.3050	99.3	75	125				
Beryllium	1.016	0.0100	1.000	0.0004200	102	75	125				
Cadmium	1.003	0.0050	1.000	0.0005000	100	75	125				
Chromium	1.014	0.0100	1.000	0.002540	101	75	125				
Copper	1.043	0.0100	1.000		104	75	125				
Lead	0.9844	0.0100	1.000		98.4	75	125				
Nickel	0.8563	0.0200	1.000		85.6	75	125				
Selenium	0.9760	0.0200	1.000		97.6	75	125				
Thallium	0.5119	0.0200	1.000		51.2	75	125				S
Vanadium	1.032	0.0100	1.000	0.003870	103	75	125				
Zinc	0.9739	0.0200	1.000	0.009710	96.4	75	125				

Sample ID: **1507O67-016CMS** Client ID: **MW-402S-20150728-01** Units: **mg/L** Prep Date: **07/31/2015** Run No: **297173**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010C** BatchID: **210814** Analysis Date: **08/03/2015** Seq No: **6340864**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9990	0.0200	1.000		99.9	75	125				
Arsenic	0.9889	0.0500	1.000	0.005730	98.3	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210814

Sample ID: **1507O67-016CMS** Client ID: **MW-402S-20150728-01** Units: **mg/L** Prep Date: **07/31/2015** Run No: **297173**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010C** BatchID: **210814** Analysis Date: **08/03/2015** Seq No: **6340864**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Barium	1.058	0.0200	1.000	0.08571	97.2	75	125				
Beryllium	0.9945	0.0100	1.000		99.4	75	125				
Cadmium	0.9812	0.0050	1.000		98.1	75	125				
Chromium	0.9807	0.0100	1.000	0.001000	98.0	75	125				
Copper	0.9988	0.0100	1.000		99.9	75	125				
Lead	0.9632	0.0100	1.000		96.3	75	125				
Nickel	0.9616	0.0200	1.000		96.2	75	125				
Selenium	0.9717	0.0200	1.000		97.2	75	125				
Thallium	1.011	0.0200	1.000	0.007030	100	75	125				
Vanadium	1.008	0.0100	1.000	0.0007100	101	75	125				
Zinc	0.9433	0.0200	1.000		94.3	75	125				

Sample ID: **1507O67-018CMS** Client ID: **MW-319-20150728-01** Units: **mg/L** Prep Date: **07/31/2015** Run No: **297173**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010C** BatchID: **210814** Analysis Date: **08/03/2015** Seq No: **6340869**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.016	0.0200	1.000		102	75	125				
Arsenic	0.9960	0.0500	1.000		99.6	75	125				
Barium	1.785	0.0200	1.000	0.7770	101	75	125				
Beryllium	1.019	0.0100	1.000		102	75	125				
Cadmium	1.002	0.0050	1.000	0.0003300	100	75	125				
Chromium	1.010	0.0100	1.000	0.0004000	101	75	125				
Copper	1.029	0.0100	1.000		103	75	125				
Lead	0.9864	0.0100	1.000		98.6	75	125				
Nickel	0.8633	0.0200	1.000		86.3	75	125				
Selenium	0.9879	0.0200	1.000		98.8	75	125				
Thallium	1.035	0.0200	1.000	0.007240	103	75	125				
Vanadium	1.029	0.0100	1.000		103	75	125				

Qualifiers:
> Greater than Result value
BRL Below reporting limit
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit
< Less than Result value
E Estimated (value above quantitation range)
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
B Analyte detected in the associated method blank
H Holding times for preparation or analysis exceeded
R RPD outside limits due to matrix

Client: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210814

Sample ID: **1507O67-018CMS** Client ID: **MW-319-20150728-01** Units: **mg/L** Prep Date: **07/31/2015** Run No: **297173**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010C** BatchID: **210814** Analysis Date: **08/03/2015** Seq No: **6340869**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Zinc	0.9754	0.0200	1.000		97.5	75	125				

Sample ID: **1507O67-001CMSD** Client ID: **MW-207-20150727-01** Units: **mg/L** Prep Date: **07/31/2015** Run No: **297173**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010C** BatchID: **210814** Analysis Date: **08/03/2015** Seq No: **6340860**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.011	0.0200	1.000		101	75	125	0.9938	1.73	20	
Arsenic	0.9963	0.0500	1.000	0.004370	99.2	75	125	0.9922	0.416	20	
Barium	1.312	0.0200	1.000	0.3050	101	75	125	1.298	1.06	20	
Beryllium	1.033	0.0100	1.000	0.0004200	103	75	125	1.016	1.70	20	
Cadmium	1.015	0.0050	1.000	0.0005000	101	75	125	1.003	1.16	20	
Chromium	1.027	0.0100	1.000	0.002540	102	75	125	1.014	1.31	20	
Copper	1.058	0.0100	1.000		106	75	125	1.043	1.40	20	
Lead	0.9958	0.0100	1.000		99.6	75	125	0.9844	1.14	20	
Nickel	0.8696	0.0200	1.000		87.0	75	125	0.8563	1.54	20	
Selenium	0.9841	0.0200	1.000		98.4	75	125	0.9760	0.835	20	
Thallium	0.4903	0.0200	1.000		49.0	75	125	0.5119	4.31	20	S
Vanadium	1.045	0.0100	1.000	0.003870	104	75	125	1.032	1.24	20	
Zinc	0.9863	0.0200	1.000	0.009710	97.7	75	125	0.9739	1.27	20	

Sample ID: **1507O67-016CMSD** Client ID: **MW-402S-20150728-01** Units: **mg/L** Prep Date: **07/31/2015** Run No: **297173**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010C** BatchID: **210814** Analysis Date: **08/03/2015** Seq No: **6340865**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9992	0.0200	1.000		99.9	75	125	0.9990	0.027	20	
Arsenic	0.9962	0.0500	1.000	0.005730	99.0	75	125	0.9889	0.730	20	
Barium	1.060	0.0200	1.000	0.08571	97.5	75	125	1.058	0.231	20	
Beryllium	0.9962	0.0100	1.000		99.6	75	125	0.9945	0.179	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210814

Sample ID: **1507O67-016CMSD** Client ID: **MW-402S-20150728-01** Units: **mg/L** Prep Date: **07/31/2015** Run No: **297173**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010C** BatchID: **210814** Analysis Date: **08/03/2015** Seq No: **6340865**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cadmium	0.9854	0.0050	1.000		98.5	75	125	0.9812	0.427	20	
Chromium	0.9848	0.0100	1.000	0.001000	98.4	75	125	0.9807	0.415	20	
Copper	1.003	0.0100	1.000		100	75	125	0.9988	0.450	20	
Lead	0.9661	0.0100	1.000		96.6	75	125	0.9632	0.299	20	
Nickel	0.9504	0.0200	1.000		95.0	75	125	0.9616	1.16	20	
Selenium	0.9733	0.0200	1.000		97.3	75	125	0.9717	0.162	20	
Thallium	1.015	0.0200	1.000	0.007030	101	75	125	1.011	0.433	20	
Vanadium	1.011	0.0100	1.000	0.0007100	101	75	125	1.008	0.359	20	
Zinc	0.9547	0.0200	1.000		95.5	75	125	0.9433	1.19	20	

Sample ID: **1507O67-018CMSD** Client ID: **MW-319-20150728-01** Units: **mg/L** Prep Date: **07/31/2015** Run No: **297173**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010C** BatchID: **210814** Analysis Date: **08/03/2015** Seq No: **6340870**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.011	0.0200	1.000		101	75	125	1.016	0.469	20	
Arsenic	1.003	0.0500	1.000		100	75	125	0.9960	0.682	20	
Barium	1.769	0.0200	1.000	0.7770	99.2	75	125	1.785	0.899	20	
Beryllium	1.019	0.0100	1.000		102	75	125	1.019	0.006	20	
Cadmium	1.004	0.0050	1.000	0.0003300	100	75	125	1.002	0.152	20	
Chromium	1.013	0.0100	1.000	0.0004000	101	75	125	1.010	0.221	20	
Copper	1.028	0.0100	1.000		103	75	125	1.029	0.106	20	
Lead	0.9907	0.0100	1.000		99.1	75	125	0.9864	0.442	20	
Nickel	0.8647	0.0200	1.000		86.5	75	125	0.8633	0.159	20	
Selenium	0.9888	0.0200	1.000		98.9	75	125	0.9879	0.096	20	
Thallium	1.037	0.0200	1.000	0.007240	103	75	125	1.035	0.173	20	
Vanadium	1.031	0.0100	1.000		103	75	125	1.029	0.166	20	
Zinc	0.9646	0.0200	1.000		96.5	75	125	0.9754	1.11	20	

Qualifiers:
> Greater than Result value
BRL Below reporting limit
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit
< Less than Result value
E Estimated (value above quantitation range)
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
B Analyte detected in the associated method blank
H Holding times for preparation or analysis exceeded
R RPD outside limits due to matrix

Client: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210834

Sample ID: **MB-210834** Client ID: Units: **ug/L** Prep Date: **07/31/2015** Run No: **297128**
SampleType: **MBLK** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210834** Analysis Date: **08/03/2015** Seq No: **6339516**

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	1.944	0	2.000		97.2	55.4	136				

Sample ID: **LCS-210834** Client ID: Units: **ug/L** Prep Date: **07/31/2015** Run No: **297128**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210834** Analysis Date: **08/03/2015** Seq No: **6339517**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.575	0.50	2.000		78.8	66.3	118				
Acenaphthylene	1.502	1.0	2.000		75.1	64	120				
Anthracene	1.615	0.050	2.000		80.7	64.6	127				
Benz(a)anthracene	1.439	0.050	2.000		71.9	60.6	137				
Benzo(a)pyrene	1.570	0.050	2.000		78.5	64	124				
Benzo(b)fluoranthene	1.440	0.10	2.000		72.0	56.4	133				

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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210834

Sample ID: **LCS-210834** Client ID: Units: **ug/L** Prep Date: **07/31/2015** Run No: **297128**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210834** Analysis Date: **08/03/2015** Seq No: **6339517**

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	1.540	0.10	2.000		77.0	49.9	137				
Benzo(k)fluoranthene	1.729	0.050	2.000		86.4	61.7	137				
Chrysene	1.778	0.050	2.000		88.9	65.5	127				
Dibenz(a,h)anthracene	1.467	0.10	2.000		73.4	52.4	130				
Fluoranthene	1.725	0.10	2.000		86.3	67	131				
Fluorene	1.645	0.10	2.000		82.3	68.3	120				
Indeno(1,2,3-cd)pyrene	1.453	0.050	2.000		72.6	50.4	139				
Naphthalene	1.476	0.50	2.000		73.8	61.1	120				
Phenanthrene	1.575	0.050	2.000		78.7	68	119				
Pyrene	1.805	0.050	2.000		90.3	62	127				
Surr: 4-Terphenyl-d14	1.840	0	2.000		92.0	55.4	136				

Sample ID: **1507O67-016DMS** Client ID: **MW-402S-20150728-01** Units: **ug/L** Prep Date: **07/31/2015** Run No: **297128**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210834** Analysis Date: **08/03/2015** Seq No: **6341087**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.432	0.50	2.000		71.6	45.6	120				
Acenaphthylene	1.304	1.0	2.000		65.2	48.3	124				
Anthracene	1.365	0.050	2.000		68.2	57.7	124				
Benz(a)anthracene	1.397	0.050	2.000		69.9	50.3	143				
Benzo(a)pyrene	1.397	0.050	2.000		69.8	44.2	127				
Benzo(b)fluoranthene	1.215	0.10	2.000		60.7	48.4	125				
Benzo(g,h,i)perylene	1.273	0.10	2.000		63.7	40.2	122				
Benzo(k)fluoranthene	1.537	0.050	2.000		76.9	45.5	122				
Chrysene	1.686	0.050	2.000		84.3	46	124				
Dibenz(a,h)anthracene	1.214	0.10	2.000		60.7	40.1	128				
Fluoranthene	1.551	0.10	2.000		77.5	58	127				
Fluorene	1.411	0.10	2.000		70.5	52.6	124				

Qualifiers:
> Greater than Result value
BRL Below reporting limit
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit
< Less than Result value
E Estimated (value above quantitation range)
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
B Analyte detected in the associated method blank
H Holding times for preparation or analysis exceeded
R RPD outside limits due to matrix

Client: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210834

Sample ID: **1507O67-016DMS** Client ID: **MW-402S-20150728-01** Units: **ug/L** Prep Date: **07/31/2015** Run No: **297128**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210834** Analysis Date: **08/03/2015** Seq No: **6341087**

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	1.248	0.050	2.000		62.4	40.3	129				
Naphthalene	1.650	0.50	2.000	0.3261	66.2	46.6	120				
Phenanthrene	1.448	0.050	2.000		72.4	50.6	122				
Pyrene	1.582	0.050	2.000		79.1	50.1	128				
Surr: 4-Terphenyl-d14	1.643	0	2.000		82.2	55.4	136				

Sample ID: **1507O67-018DMS** Client ID: **MW-319-20150728-01** Units: **ug/L** Prep Date: **07/31/2015** Run No: **297128**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210834** Analysis Date: **08/03/2015** Seq No: **6341089**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.500	0.50	2.000		75.0	45.6	120				
Acenaphthylene	1.409	1.0	2.000		70.5	48.3	124				
Anthracene	1.483	0.050	2.000		74.1	57.7	124				
Benz(a)anthracene	1.312	0.050	2.000		65.6	50.3	143				
Benzo(a)pyrene	1.242	0.050	2.000		62.1	44.2	127				
Benzo(b)fluoranthene	1.096	0.10	2.000		54.8	48.4	125				
Benzo(g,h,i)perylene	1.094	0.10	2.000		54.7	40.2	122				
Benzo(k)fluoranthene	1.505	0.050	2.000		75.3	45.5	122				
Chrysene	1.700	0.050	2.000		85.0	46	124				
Dibenz(a,h)anthracene	1.136	0.10	2.000		56.8	40.1	128				
Fluoranthene	1.585	0.10	2.000	0.01420	78.5	58	127				
Fluorene	1.458	0.10	2.000		72.9	52.6	124				
Indeno(1,2,3-cd)pyrene	1.155	0.050	2.000		57.7	40.3	129				
Naphthalene	1.356	0.50	2.000		67.8	46.6	120				
Phenanthrene	1.506	0.050	2.000		75.3	50.6	122				
Pyrene	1.673	0.050	2.000	0.02079	82.6	50.1	128				
Surr: 4-Terphenyl-d14	1.662	0	2.000		83.1	55.4	136				

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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210834

Sample ID: **1507O67-016DMSD** Client ID: **MW-402S-20150728-01** Units: **ug/L** Prep Date: **07/31/2015** Run No: **297128**
SampleType: **MSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210834** Analysis Date: **08/03/2015** Seq No: **6341088**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.349	0.50	2.000		67.4	45.6	120	1.432	6.01	29.4	
Acenaphthylene	1.172	1.0	2.000		58.6	48.3	124	1.304	10.7	32.5	
Anthracene	1.384	0.050	2.000		69.2	57.7	124	1.365	1.37	21.9	
Benz(a)anthracene	1.352	0.050	2.000		67.6	50.3	143	1.397	3.31	26.8	
Benzo(a)pyrene	1.296	0.050	2.000		64.8	44.2	127	1.397	7.52	40.9	
Benzo(b)fluoranthene	1.145	0.10	2.000		57.3	48.4	125	1.215	5.88	24.2	
Benzo(g,h,i)perylene	1.158	0.10	2.000		57.9	40.2	122	1.273	9.54	26.2	
Benzo(k)fluoranthene	1.432	0.050	2.000		71.6	45.5	122	1.537	7.07	23.3	
Chrysene	1.644	0.050	2.000		82.2	46	124	1.686	2.52	25	
Dibenz(a,h)anthracene	1.094	0.10	2.000		54.7	40.1	128	1.214	10.4	23.6	
Fluoranthene	1.438	0.10	2.000		71.9	58	127	1.551	7.51	23.5	
Fluorene	1.326	0.10	2.000		66.3	52.6	124	1.411	6.18	31.5	
Indeno(1,2,3-cd)pyrene	1.152	0.050	2.000		57.6	40.3	129	1.248	8.06	28.8	
Naphthalene	1.610	0.50	2.000	0.3261	64.2	46.6	120	1.650	2.45	22.9	
Phenanthrene	1.334	0.050	2.000		66.7	50.6	122	1.448	8.13	20.2	
Pyrene	1.560	0.050	2.000		78.0	50.1	128	1.582	1.39	24.7	
Surr: 4-Terphenyl-d14	1.594	0	2.000		79.7	55.4	136	1.643	0	0	

Sample ID: **1507O67-018DMSD** Client ID: **MW-319-20150728-01** Units: **ug/L** Prep Date: **07/31/2015** Run No: **297128**
SampleType: **MSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210834** Analysis Date: **08/03/2015** Seq No: **6341090**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.432	0.50	2.000		71.6	45.6	120	1.500	4.63	29.4	
Acenaphthylene	1.355	1.0	2.000		67.7	48.3	124	1.409	3.95	32.5	
Anthracene	1.490	0.050	2.000		74.5	57.7	124	1.483	0.458	21.9	
Benz(a)anthracene	1.331	0.050	2.000		66.6	50.3	143	1.312	1.49	26.8	
Benzo(a)pyrene	1.387	0.050	2.000		69.3	44.2	127	1.242	11.0	40.9	
Benzo(b)fluoranthene	1.164	0.10	2.000		58.2	48.4	125	1.096	5.99	24.2	

Qualifiers:
- > Greater than Result value
- BRL Below reporting limit
- J Estimated value detected below Reporting Limit
- Rpt Lim Reporting Limit
- < Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix
- B Analyte detected in the associated method blank
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

Client: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: **210834**

Sample ID: **1507O67-018DMSD** Client ID: **MW-319-20150728-01** Units: **ug/L** Prep Date: **07/31/2015** Run No: **297128**
SampleType: **MSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210834** Analysis Date: **08/03/2015** Seq No: **6341090**

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	1.232	0.10	2.000		61.6	40.2	122	1.094	11.8	26.2	
Benzo(k)fluoranthene	1.593	0.050	2.000		79.7	45.5	122	1.505	5.71	23.3	
Chrysene	1.665	0.050	2.000		83.2	46	124	1.700	2.11	25	
Dibenz(a,h)anthracene	1.152	0.10	2.000		57.6	40.1	128	1.136	1.34	23.6	
Fluoranthene	1.559	0.10	2.000	0.01420	77.2	58	127	1.585	1.62	23.5	
Fluorene	1.446	0.10	2.000		72.3	52.6	124	1.458	0.827	31.5	
Indeno(1,2,3-cd)pyrene	1.228	0.050	2.000		61.4	40.3	129	1.155	6.16	28.8	
Naphthalene	1.319	0.50	2.000		65.9	46.6	120	1.356	2.77	22.9	
Phenanthrene	1.445	0.050	2.000		72.3	50.6	122	1.506	4.11	20.2	
Pyrene	1.659	0.050	2.000	0.02079	81.9	50.1	128	1.673	0.865	24.7	
Surr: 4-Terphenyl-d14	1.693	0	2.000		84.7	55.4	136	1.662	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210852

Sample ID: **MB-210852** Client ID: Units: **mg/L** Prep Date: **07/31/2015** Run No: **297071**
SampleType: **MBLK** TestCode: **Mercury, Total SW7470A** BatchID: **210852** Analysis Date: **07/31/2015** Seq No: **6338295**

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-210852** Client ID: Units: **mg/L** Prep Date: **07/31/2015** Run No: **297071**
SampleType: **LCS** TestCode: **Mercury, Total SW7470A** BatchID: **210852** Analysis Date: **07/31/2015** Seq No: **6338296**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004340	0.00020	0.0050		86.8	80	120				

Sample ID: **1507O67-001CMS** Client ID: **MW-207-20150727-01** Units: **mg/L** Prep Date: **07/31/2015** Run No: **297071**
SampleType: **MS** TestCode: **Mercury, Total SW7470A** BatchID: **210852** Analysis Date: **07/31/2015** Seq No: **6338298**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004224	0.00020	0.0050		84.5	70	130				

Sample ID: **1507O67-016CMS** Client ID: **MW-402S-20150728-01** Units: **mg/L** Prep Date: **07/31/2015** Run No: **297071**
SampleType: **MS** TestCode: **Mercury, Total SW7470A** BatchID: **210852** Analysis Date: **07/31/2015** Seq No: **6338321**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004516	0.00020	0.0050		90.3	70	130				

Sample ID: **1507O67-001CMSD** Client ID: **MW-207-20150727-01** Units: **mg/L** Prep Date: **07/31/2015** Run No: **297071**
SampleType: **MSD** TestCode: **Mercury, Total SW7470A** BatchID: **210852** Analysis Date: **07/31/2015** Seq No: **6338299**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004288	0.00020	0.0050		85.8	70	130	0.004224	1.50	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		

Analytical Environmental Services, Inc

Date: 6-Aug-15

Client: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: **210852**

Sample ID: **1507O67-016CMSD** Client ID: **MW-402S-20150728-01** Units: **mg/L** Prep Date: **07/31/2015** Run No: **297071**
SampleType: **MSD** TestCode: **Mercury, Total SW7470A** BatchID: **210852** Analysis Date: **07/31/2015** Seq No: **6338322**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004615	0.00020	0.0050		92.3	70	130	0.004516	2.17	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210853

Sample ID: **MB-210853** Client ID: Units: **mg/L** Prep Date: **07/31/2015** Run No: **297072**
SampleType: **MBLK** TestCode: **Mercury, Total SW7470A** BatchID: **210853** Analysis Date: **07/31/2015** Seq No: **6338336**

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-210853** Client ID: Units: **mg/L** Prep Date: **07/31/2015** Run No: **297072**
SampleType: **LCS** TestCode: **Mercury, Total SW7470A** BatchID: **210853** Analysis Date: **07/31/2015** Seq No: **6338339**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004536	0.00020	0.0050		90.7	80	120				

Sample ID: **1507O67-018CMS** Client ID: **MW-319-20150728-01** Units: **mg/L** Prep Date: **07/31/2015** Run No: **297072**
SampleType: **MS** TestCode: **Mercury, Total SW7470A** BatchID: **210853** Analysis Date: **07/31/2015** Seq No: **6338341**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004961	0.00020	0.0050		99.2	70	130				

Sample ID: **1507O67-018CMSD** Client ID: **MW-319-20150728-01** Units: **mg/L** Prep Date: **07/31/2015** Run No: **297072**
SampleType: **MSD** TestCode: **Mercury, Total SW7470A** BatchID: **210853** Analysis Date: **07/31/2015** Seq No: **6338342**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004969	0.00020	0.0050		99.4	70	130	0.004961	0.164	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210931

Sample ID: **MB-210931** Client ID: Units: **ug/L** Prep Date: **08/03/2015** Run No: **297117**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **210931** Analysis Date: **08/03/2015** Seq No: **6339337**

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	39.73	0	50.00		79.5	70.6	123				
Surr: Dibromofluoromethane	51.42	0	50.00		103	78.7	124				
Surr: Toluene-d8	49.87	0	50.00		99.7	81.3	120				

Sample ID: **LCS-210931** Client ID: Units: **ug/L** Prep Date: **08/03/2015** Run No: **297117**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **210931** Analysis Date: **08/03/2015** Seq No: **6339336**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	54.26	5.0	50.00		109	72.8	128				
Toluene	55.95	5.0	50.00		112	74.9	127				
Trichloroethene	54.77	5.0	50.00		110	70.5	134				
Surr: 4-Bromofluorobenzene	39.03	0	50.00		78.1	70.6	123				
Surr: Dibromofluoromethane	50.09	0	50.00		100	78.7	124				
Surr: Toluene-d8	49.02	0	50.00		98.0	81.3	120				

Sample ID: **1507O67-001AMS** Client ID: **MW-207-20150727-01** Units: **ug/L** Prep Date: **08/03/2015** Run No: **297117**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **210931** Analysis Date: **08/03/2015** Seq No: **6339600**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	50.05	5.0	50.00		100	70	135				

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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210931

Sample ID: **1507O67-001AMS** Client ID: **MW-207-20150727-01** Units: **ug/L** Prep Date: **08/03/2015** Run No: **297117**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **210931** Analysis Date: **08/03/2015** Seq No: **6339600**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Toluene	53.65	5.0	50.00		107	70.5	137				
Trichloroethene	51.34	5.0	50.00		103	71.8	139				
Surr: 4-Bromofluorobenzene	40.35	0	50.00		80.7	70.6	123				
Surr: Dibromofluoromethane	50.59	0	50.00		101	78.7	124				
Surr: Toluene-d8	49.23	0	50.00		98.5	81.3	120				

Sample ID: **1507O67-016AMS** Client ID: **MW-402S-20150728-01** Units: **ug/L** Prep Date: **08/03/2015** Run No: **297117**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **210931** Analysis Date: **08/03/2015** Seq No: **6340713**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	50.45	5.0	50.00		101	70	135				
Toluene	53.35	5.0	50.00		107	70.5	137				
Trichloroethene	49.89	5.0	50.00		99.8	71.8	139				
Surr: 4-Bromofluorobenzene	39.16	0	50.00		78.3	70.6	123				
Surr: Dibromofluoromethane	51.47	0	50.00		103	78.7	124				
Surr: Toluene-d8	49.00	0	50.00		98.0	81.3	120				

Sample ID: **1507O67-018AMS** Client ID: **MW-319-20150728-01** Units: **ug/L** Prep Date: **08/03/2015** Run No: **297117**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **210931** Analysis Date: **08/03/2015** Seq No: **6340716**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	51.26	5.0	50.00		103	70	135				
Toluene	54.46	5.0	50.00		109	70.5	137				
Trichloroethene	52.18	5.0	50.00		104	71.8	139				
Surr: 4-Bromofluorobenzene	39.94	0	50.00		79.9	70.6	123				
Surr: Dibromofluoromethane	51.36	0	50.00		103	78.7	124				
Surr: Toluene-d8	50.66	0	50.00		101	81.3	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210931

Sample ID: **1507O67-001AMSD** Client ID: **MW-207-20150727-01** Units: **ug/L** Prep Date: **08/03/2015** Run No: **297117**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **210931** Analysis Date: **08/03/2015** Seq No: **6339650**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	49.26	5.0	50.00		98.5	70	135	50.05	1.59	20	
Toluene	51.90	5.0	50.00		104	70.5	137	53.65	3.32	20	
Trichloroethene	48.87	5.0	50.00		97.7	71.8	139	51.34	4.93	20	
Surr: 4-Bromofluorobenzene	40.12	0	50.00		80.2	70.6	123	40.35	0	0	
Surr: Dibromofluoromethane	50.61	0	50.00		101	78.7	124	50.59	0	0	
Surr: Toluene-d8	48.71	0	50.00		97.4	81.3	120	49.23	0	0	

Sample ID: **1507O67-016AMSD** Client ID: **MW-402S-20150728-01** Units: **ug/L** Prep Date: **08/03/2015** Run No: **297117**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **210931** Analysis Date: **08/03/2015** Seq No: **6340714**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	48.13	5.0	50.00		96.3	70	135	50.45	4.71	20	
Toluene	51.93	5.0	50.00		104	70.5	137	53.35	2.70	20	
Trichloroethene	50.47	5.0	50.00		101	71.8	139	49.89	1.16	20	
Surr: 4-Bromofluorobenzene	40.51	0	50.00		81.0	70.6	123	39.16	0	0	
Surr: Dibromofluoromethane	50.47	0	50.00		101	78.7	124	51.47	0	0	
Surr: Toluene-d8	48.35	0	50.00		96.7	81.3	120	49.00	0	0	

Sample ID: **1507O67-018AMSD** Client ID: **MW-319-20150728-01** Units: **ug/L** Prep Date: **08/03/2015** Run No: **297117**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **210931** Analysis Date: **08/03/2015** Seq No: **6340717**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	50.20	5.0	50.00		100	70	135	51.26	2.09	20	
Toluene	52.67	5.0	50.00		105	70.5	137	54.46	3.34	20	
Trichloroethene	51.42	5.0	50.00		103	71.8	139	52.18	1.47	20	
Surr: 4-Bromofluorobenzene	39.03	0	50.00		78.1	70.6	123	39.94	0	0	
Surr: Dibromofluoromethane	51.20	0	50.00		102	78.7	124	51.36	0	0	
Surr: Toluene-d8	48.09	0	50.00		96.2	81.3	120	50.66	0	0	

Qualifiers:
- > Greater than Result value
- BRL Below reporting limit
- J Estimated value detected below Reporting Limit
- Rpt Lim Reporting Limit
- < Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix
- B Analyte detected in the associated method blank
- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

Client: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210977

Sample ID: **MB-210977** Client ID: Units: **mg/L** Prep Date: **08/03/2015** Run No: **297175**
SampleType: **MBLK** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **210977** Analysis Date: **08/03/2015** Seq No: **6340472**

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-210977** Client ID: Units: **mg/L** Prep Date: **08/03/2015** Run No: **297175**
SampleType: **LCS** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **210977** Analysis Date: **08/03/2015** Seq No: **6340473**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2482	0.010	0.2500		99.3	90	110				

Sample ID: **1507O67-001BMS** Client ID: **MW-207-20150727-01** Units: **mg/L** Prep Date: **08/03/2015** Run No: **297175**
SampleType: **MS** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **210977** Analysis Date: **08/03/2015** Seq No: **6340476**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2439	0.010	0.2500		97.6	90	110				

Sample ID: **1507O67-010BMS** Client ID: **MW-602-20150728-01** Units: **mg/L** Prep Date: **08/03/2015** Run No: **297175**
SampleType: **MS** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **210977** Analysis Date: **08/03/2015** Seq No: **6342357**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2357	0.010	0.2500		94.3	90	110				

Sample ID: **1507O67-001BMSD** Client ID: **MW-207-20150727-01** Units: **mg/L** Prep Date: **08/03/2015** Run No: **297175**
SampleType: **MSD** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **210977** Analysis Date: **08/03/2015** Seq No: **6340479**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2464	0.010	0.2500		98.6	90	110	0.2439	1.02	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210988

Sample ID: **MB-210988** Client ID: Units: **ug/L** Prep Date: **08/03/2015** Run No: **297186**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **210988** Analysis Date: **08/03/2015** Seq No: **6340728**

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	39.85	0	50.00		79.7	70.6	123				
Surr: Dibromofluoromethane	52.71	0	50.00		105	78.7	124				
Surr: Toluene-d8	49.32	0	50.00		98.6	81.3	120				

Sample ID: **LCS-210988** Client ID: Units: **ug/L** Prep Date: **08/03/2015** Run No: **297186**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **210988** Analysis Date: **08/03/2015** Seq No: **6340727**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	50.14	5.0	50.00		100	72.8	128				
Toluene	52.84	5.0	50.00		106	74.9	127				
Trichloroethene	50.94	5.0	50.00		102	70.5	134				
Surr: 4-Bromofluorobenzene	39.33	0	50.00		78.7	70.6	123				
Surr: Dibromofluoromethane	51.68	0	50.00		103	78.7	124				
Surr: Toluene-d8	48.62	0	50.00		97.2	81.3	120				

Sample ID: **1507O67-021AMS** Client ID: **MW-213-20150728-01** Units: **ug/L** Prep Date: **08/03/2015** Run No: **297189**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **210988** Analysis Date: **08/04/2015** Seq No: **6342014**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	9928	250	2500	8412	60.7	70	135				S

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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 210988

Sample ID: **1507O67-021AMS** Client ID: **MW-213-20150728-01** Units: **ug/L** Prep Date: **08/03/2015** Run No: **297189**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **210988** Analysis Date: **08/04/2015** Seq No: **6342014**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Toluene	3074	250	2500	487.0	103	70.5	137				
Trichloroethene	2501	250	2500		100	71.8	139				
Surr: 4-Bromofluorobenzene	2034	0	2500		81.4	70.6	123				
Surr: Dibromofluoromethane	2465	0	2500		98.6	78.7	124				
Surr: Toluene-d8	2368	0	2500		94.7	81.3	120				

Sample ID: **1507O67-021AMSD** Client ID: **MW-213-20150728-01** Units: **ug/L** Prep Date: **08/03/2015** Run No: **297189**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **210988** Analysis Date: **08/04/2015** Seq No: **6342053**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	10000	250	2500	8412	63.6	70	135	9928	0.728	20	SE
Toluene	3038	250	2500	487.0	102	70.5	137	3074	1.18	20	
Trichloroethene	2470	250	2500		98.8	71.8	139	2501	1.23	20	
Surr: 4-Bromofluorobenzene	2100	0	2500		84.0	70.6	123	2034	0	0	
Surr: Dibromofluoromethane	2502	0	2500		100	78.7	124	2465	0	0	
Surr: Toluene-d8	2438	0	2500		97.5	81.3	120	2368	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: 211043

Sample ID: **MB-211043** Client ID: Units: **mg/L** Prep Date: **08/04/2015** Run No: **297256**
SampleType: **MBLK** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211043** Analysis Date: **08/04/2015** Seq No: **6342395**

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-211043** Client ID: Units: **mg/L** Prep Date: **08/04/2015** Run No: **297256**
SampleType: **LCS** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211043** Analysis Date: **08/04/2015** Seq No: **6342396**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2482	0.010	0.2500		99.3	90	110				

Sample ID: **1507O67-016BMS** Client ID: **MW-402S-20150728-01** Units: **mg/L** Prep Date: **08/04/2015** Run No: **297256**
SampleType: **MS** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211043** Analysis Date: **08/04/2015** Seq No: **6342423**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2403	0.010	0.2500		96.1	90	110				

Sample ID: **1507O67-018BMS** Client ID: **MW-319-20150728-01** Units: **mg/L** Prep Date: **08/04/2015** Run No: **297256**
SampleType: **MS** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211043** Analysis Date: **08/04/2015** Seq No: **6342434**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2293	0.010	0.2500		91.7	90	110				

Sample ID: **1507O67-016BMSD** Client ID: **MW-402S-20150728-01** Units: **mg/L** Prep Date: **08/04/2015** Run No: **297256**
SampleType: **MSD** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211043** Analysis Date: **08/04/2015** Seq No: **6342428**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2436	0.010	0.2500		97.4	90	110	0.2403	1.36	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		

Analytical Environmental Services, Inc

Date: 6-Aug-15

Client: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507O67

ANALYTICAL QC SUMMARY REPORT

BatchID: **211043**

Sample ID: **1507O67-018BMSD** Client ID: **MW-319-20150728-01** Units: **mg/L** Prep Date: **08/04/2015** Run No: **297256**
SampleType: **MSD** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211043** Analysis Date: **08/04/2015** Seq No: **6342438**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2312	0.010	0.2500		92.5	90	110	0.2293	0.825	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.

August 11, 2015

Greg Jirak
ERM-Southeast
3200 Windy Hill Rd
Atlanta GA 30339

TEL: (678) 486-2700
FAX: (404) 745-0103

RE: AGL Augusta

Dear Greg Jirak: Order No: 1507Q56

Analytical Environmental Services, Inc. received 34 samples on 7/31/2015 11:55:00 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' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

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.

Mirzeta Kararic

Mirzeta Kararic
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3080 Presidential Drive, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1507256

Date: 7/31/15 Page 1 of 3

COMPANY: ERM

ADDRESS: 3280 Windy Hill Road SE Ste 1500W Atlanta, GA

PHONE: 678 486 2700

FAX:

SAMPLED BY: W. Vigo, B. Fixler, B. Mitchell, A. Neal

SIGNATURE:

ANALYSIS REQUESTED: 8260B, 8270C, 6010B/6020B, 7470A, 9012A

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	HCl	HNO3	NaOH		REMARKS	No # of Containers
1	MW-321-20150729-01	7/29/15	1120	✓		GW	2	2	1	1		6
2	MW-503BR-20150729-01		1215									
3	MW-511BR-20150729-01		1300									
4	MW-505D-20150729-01		1535									
5	MW-510BR-20150729-01		1540									
6	MW-300BR-20150729-01		1550									
7	MW-508BR-20150729-01		1650									
8	MW-513BR-20150729-01		1700									
9	MW-12-20150729-01		1745									
10	MW-508BR-20150730-01	7/30/15	0845									
11	MW-512BR-20150730-01		0900									
12	MW-318-20150730-01		0907									
13	MW-19-20150730-01		0925									
14	MW-507BR-20150730-01		1150	✓								✓

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	7/31/15 1154	1:	7/31/15 1155
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: AGL Augusta
PROJECT #: 0290410
SITE ADDRESS: Augusta, GA
SEND REPORT TO: Greg.Jones@ERM.com
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers 84/86

Turnaround Time Request
- ✓ Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
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
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1507056

Date: 7/31/15 Page 2 of 3

COMPANY: ERM

ADDRESS: 5200 Windy Hill Rd SE Ste 1500W Atlanta, GA 30339

PHONE: 678-486-2700

FAX:

SAMPLED BY: B. Fisher, L. Vinger, B. Mitchell, A. Neal

SIGNATURE:

ANALYSIS REQUESTED: 8260B, 8270C, 6010B/7470A, 6012A

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes) HCL	NA	HNO3	NaOH	REMARKS	No # of Containers
1	MW-206-20150730-01	7/30/15	1245	x		GW	2	2	1	1		6
2	MW-304-20150730-01		1615									
3	MW-404DR-20150730-01		1215								* Samples MW-307BR + 308BR May contain Free Product	
4	MW-401D-20150730-01		1505									
5	MW-501S-20150730-01		1520									
6	MW-315-20150730-01		1528									
7	MW-307TZ-20150730-01		1620									
8	MW-401S-20150730-01		1712									
9	MW-306TZ-20150730-01		1820									
10	MW-601-20150730-01		1830									
11	MW-307BR-20150731-01	7/31/15	0830									
12	MW-308BR-20150731-01	7/31/15	0857									
13	DUP-01-20150729-01	7/29/15	—									
14	DUP-02-20150730-01	7/30/15	—									

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	7/31/15 1154	1: Tanya Belise	7/31/15 1155
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: AGL Augusta
PROJECT #: 0280910
SITE ADDRESS: Augusta, GA
SEND REPORT TO: Greg.Jirak@ERM.com
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers 84/96

Turnaround Time Request
- ⊗ Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
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 TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1507056

Date: 7/31/15 Page 3 of 3

COMPANY: ERM

ADDRESS: 3000 Windy Hill Rd SE Ste 1500W Atlanta, GA 30339

PHONE: 678-486-2700

FAX: —

SAMPLED BY: W. Vega, B. Mitchell, B. Fisher, R. Neal

SIGNATURE: [signature]

ANALYSIS REQUESTED: 8260B; 6270C; 6020B, 6020B 7470A; 9012A

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes) HCL	NA	HNO3	NaOH	REMARKS	No # of Containers
1	DUP-03-20150730-01	7/30/15	—	X		GW	2	2	1	1		6
2	DUP-04-20150730-01	↓	—	↓		↓	↓	↓	↓	↓		6
3	DUP-05-20150730-01		—									6
4	DUP-06-20150730-01	↓	—	↓		↓		↓	↓	↓		6
5	TB-03-20150731-01	7/31/15	—			W						2
6	TB-04-20150731-01	7/31/15	—			W	↓					2
7												
8												
9												
10												
11												
12												
13												
14												

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: [signature]	7/31/15 1154	1: [signature]	7/31/15 1155
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
(CLIENT) FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: AGL Augusta
PROJECT #: 0280910
SITE ADDRESS: Augusta, GA
SEND REPORT TO: Greg.Jirak@ERM.com
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers 29/96

Turnaround Time 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? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

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

Client: ERM-Southeast
Project: AGL Augusta
Lab ID: 1507Q56

Case Narrative

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1507Q56-006A, 009A, 024A, 025A, 027A & -030A required dilution during preparation and/or analysis resulting in elevated reporting limits.

PAH Analysis by Method 8270D SIM:

Due to sample matrix, samples 1507Q56-001D, -006D, -012D, -026D, -029D and -030D required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc **Date:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-321-20150729-01
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 11:20:00 AM
Lab ID:	1507Q56-001	**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	211069	1	08/04/2015 23:07	NP
Benzene	2300	100		ug/L	211069	20	08/06/2015 13:14	NP
Carbon disulfide	BRL	5.0		ug/L	211069	1	08/04/2015 23:07	NP
Ethylbenzene	BRL	5.0		ug/L	211069	1	08/04/2015 23:07	NP
Methylene chloride	BRL	5.0		ug/L	211069	1	08/04/2015 23:07	NP
Toluene	BRL	5.0		ug/L	211069	1	08/04/2015 23:07	NP
Trichloroethene	BRL	5.0		ug/L	211069	1	08/04/2015 23:07	NP
Xylenes, Total	BRL	5.0		ug/L	211069	1	08/04/2015 23:07	NP
Surr: 4-Bromofluorobenzene	78.4	70.6-123		%REC	211069	20	08/06/2015 13:14	NP
Surr: 4-Bromofluorobenzene	82.3	70.6-123		%REC	211069	1	08/04/2015 23:07	NP
Surr: Dibromofluoromethane	96.5	78.7-124		%REC	211069	1	08/04/2015 23:07	NP
Surr: Dibromofluoromethane	99.7	78.7-124		%REC	211069	20	08/06/2015 13:14	NP
Surr: Toluene-d8	95.5	81.3-120		%REC	211069	1	08/04/2015 23:07	NP
Surr: Toluene-d8	97.9	81.3-120		%REC	211069	20	08/06/2015 13:14	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211043	1	08/05/2015 12:30	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	180	50		ug/L	210976	100	08/05/2015 19:01	YH
Acenaphthylene	BRL	1.0		ug/L	210976	1	08/05/2015 12:07	YH
Acenaphthene	BRL	50		ug/L	210976	100	08/05/2015 19:01	YH
Fluorene	1.9	0.10		ug/L	210976	1	08/05/2015 12:07	YH
Phenanthrene	1.4	0.050		ug/L	210976	1	08/05/2015 12:07	YH
Anthracene	0.21	0.050		ug/L	210976	1	08/05/2015 12:07	YH
Fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 12:07	YH
Pyrene	0.068	0.050		ug/L	210976	1	08/05/2015 12:07	YH
Benz(a)anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 12:07	YH
Chrysene	BRL	0.050		ug/L	210976	1	08/05/2015 12:07	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 12:07	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210976	1	08/05/2015 12:07	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 12:07	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 12:07	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210976	1	08/05/2015 12:07	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210976	1	08/05/2015 12:07	YH
Surr: 4-Terphenyl-d14	80.3	55.4-136		%REC	210976	1	08/05/2015 12:07	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211023	1	08/05/2015 13:19	JW
METALS, TOTAL SW6010C				**(SW3010A)**				

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-321-20150729-01
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 11:20:00 AM
Lab ID:	1507Q56-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210956	1	08/04/2015 17:49	TA
Arsenic	BRL	0.0500		mg/L	210956	1	08/04/2015 17:49	TA
Barium	0.280	0.0200		mg/L	210956	1	08/04/2015 17:49	TA
Beryllium	BRL	0.0100		mg/L	210956	1	08/04/2015 17:49	TA
Cadmium	BRL	0.0050		mg/L	210956	1	08/04/2015 17:49	TA
Chromium	BRL	0.0100		mg/L	210956	1	08/04/2015 17:49	TA
Copper	0.0225	0.0100		mg/L	210956	1	08/04/2015 17:49	TA
Lead	BRL	0.0100		mg/L	210956	1	08/04/2015 17:49	TA
Nickel	BRL	0.0200		mg/L	210956	1	08/04/2015 17:49	TA
Selenium	BRL	0.0200		mg/L	210956	1	08/04/2015 17:49	TA
Thallium	BRL	0.0200		mg/L	210956	1	08/04/2015 17:49	TA
Vanadium	BRL	0.0100		mg/L	210956	1	08/04/2015 17:49	TA
Zinc	BRL	0.0200		mg/L	210956	1	08/04/2015 17:49	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-503BR-20150729-01
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 12:15:00 PM
Lab ID:	1507Q56-002	**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	211069	1	08/04/2015 23:29	NP
Benzene	790	50		ug/L	211069	10	08/06/2015 13:37	NP
Carbon disulfide	BRL	5.0		ug/L	211069	1	08/04/2015 23:29	NP
Ethylbenzene	65	5.0		ug/L	211069	1	08/04/2015 23:29	NP
Methylene chloride	BRL	5.0		ug/L	211069	1	08/04/2015 23:29	NP
Toluene	240	50		ug/L	211069	10	08/06/2015 13:37	NP
Trichloroethene	BRL	5.0		ug/L	211069	1	08/04/2015 23:29	NP
Xylenes, Total	76	5.0		ug/L	211069	1	08/04/2015 23:29	NP
Surr: 4-Bromofluorobenzene	78.5	70.6-123		%REC	211069	10	08/06/2015 13:37	NP
Surr: 4-Bromofluorobenzene	83.4	70.6-123		%REC	211069	1	08/04/2015 23:29	NP
Surr: Dibromofluoromethane	99.8	78.7-124		%REC	211069	1	08/04/2015 23:29	NP
Surr: Dibromofluoromethane	104	78.7-124		%REC	211069	10	08/06/2015 13:37	NP
Surr: Toluene-d8	95.8	81.3-120		%REC	211069	1	08/04/2015 23:29	NP
Surr: Toluene-d8	98	81.3-120		%REC	211069	10	08/06/2015 13:37	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211043	1	08/05/2015 12:30	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210976	1	08/05/2015 12:32	YH
Acenaphthylene	BRL	1.0		ug/L	210976	1	08/05/2015 12:32	YH
Acenaphthene	BRL	0.50		ug/L	210976	1	08/05/2015 12:32	YH
Fluorene	0.27	0.10		ug/L	210976	1	08/05/2015 12:32	YH
Phenanthrene	0.19	0.050		ug/L	210976	1	08/05/2015 12:32	YH
Anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 12:32	YH
Fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 12:32	YH
Pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 12:32	YH
Benz(a)anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 12:32	YH
Chrysene	BRL	0.050		ug/L	210976	1	08/05/2015 12:32	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 12:32	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210976	1	08/05/2015 12:32	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 12:32	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 12:32	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210976	1	08/05/2015 12:32	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210976	1	08/05/2015 12:32	YH
Surr: 4-Terphenyl-d14	73	55.4-136		%REC	210976	1	08/05/2015 12:32	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211023	1	08/05/2015 13:11	JW
METALS, TOTAL SW6010C				**(SW3010A)**				

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-503BR-20150729-01
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 12:15:00 PM
Lab ID:	1507Q56-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210956	1	08/04/2015 18:09	TA
Arsenic	BRL	0.0500		mg/L	210956	1	08/04/2015 18:09	TA
Barium	0.0221	0.0200		mg/L	210956	1	08/04/2015 18:09	TA
Beryllium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:09	TA
Cadmium	BRL	0.0050		mg/L	210956	1	08/04/2015 18:09	TA
Chromium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:09	TA
Copper	BRL	0.0100		mg/L	210956	1	08/04/2015 18:09	TA
Lead	BRL	0.0100		mg/L	210956	1	08/04/2015 18:09	TA
Nickel	BRL	0.0200		mg/L	210956	1	08/04/2015 18:09	TA
Selenium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:09	TA
Thallium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:09	TA
Vanadium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:09	TA
Zinc	0.0757	0.0200		mg/L	210956	1	08/04/2015 18:09	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-511BR-20150729-01
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 1:00:00 PM
Lab ID:	1507Q56-003	**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	211069	1	08/06/2015 15:38	NP
Benzene	200	50		ug/L	211069	10	08/04/2015 20:05	NP
Carbon disulfide	BRL	5.0		ug/L	211069	1	08/06/2015 15:38	NP
Ethylbenzene	10	5.0		ug/L	211069	1	08/06/2015 15:38	NP
Methylene chloride	BRL	5.0		ug/L	211069	1	08/06/2015 15:38	NP
Toluene	5.1	5.0		ug/L	211069	1	08/06/2015 15:38	NP
Trichloroethene	BRL	5.0		ug/L	211069	1	08/06/2015 15:38	NP
Xylenes, Total	BRL	5.0		ug/L	211069	1	08/06/2015 15:38	NP
Surr: 4-Bromofluorobenzene	81.8	70.6-123		%REC	211069	1	08/06/2015 15:38	NP
Surr: 4-Bromofluorobenzene	80.7	70.6-123		%REC	211069	10	08/04/2015 20:05	NP
Surr: Dibromofluoromethane	101	78.7-124		%REC	211069	1	08/06/2015 15:38	NP
Surr: Dibromofluoromethane	102	78.7-124		%REC	211069	10	08/04/2015 20:05	NP
Surr: Toluene-d8	94.9	81.3-120		%REC	211069	1	08/06/2015 15:38	NP
Surr: Toluene-d8	97.5	81.3-120		%REC	211069	10	08/04/2015 20:05	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211148	1	08/06/2015 12:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210976	1	08/05/2015 12:57	YH
Acenaphthylene	BRL	1.0		ug/L	210976	1	08/05/2015 12:57	YH
Acenaphthene	1.9	0.50		ug/L	210976	1	08/05/2015 12:57	YH
Fluorene	0.54	0.10		ug/L	210976	1	08/05/2015 12:57	YH
Phenanthrene	0.53	0.050		ug/L	210976	1	08/05/2015 12:57	YH
Anthracene	0.063	0.050		ug/L	210976	1	08/05/2015 12:57	YH
Fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 12:57	YH
Pyrene	0.084	0.050		ug/L	210976	1	08/05/2015 12:57	YH
Benz(a)anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 12:57	YH
Chrysene	BRL	0.050		ug/L	210976	1	08/05/2015 12:57	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 12:57	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210976	1	08/05/2015 12:57	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 12:57	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 12:57	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210976	1	08/05/2015 12:57	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210976	1	08/05/2015 12:57	YH
Surr: 4-Terphenyl-d14	94.9	55.4-136		%REC	210976	1	08/05/2015 12:57	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211023	1	08/05/2015 13:21	JW
METALS, TOTAL SW6010C				**(SW3010A)**				

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-511BR-20150729-01
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 1:00:00 PM
Lab ID:	1507Q56-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210956	1	08/04/2015 18:12	TA
Arsenic	BRL	0.0500		mg/L	210956	1	08/04/2015 18:12	TA
Barium	0.0712	0.0200		mg/L	210956	1	08/04/2015 18:12	TA
Beryllium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:12	TA
Cadmium	BRL	0.0050		mg/L	210956	1	08/04/2015 18:12	TA
Chromium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:12	TA
Copper	BRL	0.0100		mg/L	210956	1	08/04/2015 18:12	TA
Lead	BRL	0.0100		mg/L	210956	1	08/04/2015 18:12	TA
Nickel	BRL	0.0200		mg/L	210956	1	08/04/2015 18:12	TA
Selenium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:12	TA
Thallium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:12	TA
Vanadium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:12	TA
Zinc	0.0567	0.0200		mg/L	210956	1	08/04/2015 18:12	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-505D-20150729-01
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 3:35:00 PM
Lab ID:	1507Q56-004	**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	211069	1	08/04/2015 23:52	NP
Benzene	BRL	5.0		ug/L	211069	1	08/04/2015 23:52	NP
Carbon disulfide	BRL	5.0		ug/L	211069	1	08/04/2015 23:52	NP
Ethylbenzene	5.9	5.0		ug/L	211069	1	08/04/2015 23:52	NP
Methylene chloride	BRL	5.0		ug/L	211069	1	08/04/2015 23:52	NP
Toluene	BRL	5.0		ug/L	211069	1	08/04/2015 23:52	NP
Trichloroethene	BRL	5.0		ug/L	211069	1	08/04/2015 23:52	NP
Xylenes, Total	BRL	5.0		ug/L	211069	1	08/04/2015 23:52	NP
Surr: 4-Bromofluorobenzene	83.5	70.6-123		%REC	211069	1	08/04/2015 23:52	NP
Surr: Dibromofluoromethane	103	78.7-124		%REC	211069	1	08/04/2015 23:52	NP
Surr: Toluene-d8	96.8	81.3-120		%REC	211069	1	08/04/2015 23:52	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211148	1	08/06/2015 12:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	70	5.0		ug/L	210976	10	08/05/2015 21:00	YH
Acenaphthylene	BRL	1.0		ug/L	210976	1	08/05/2015 13:22	YH
Acenaphthene	9.5	5.0		ug/L	210976	10	08/05/2015 21:00	YH
Fluorene	1.9	0.10		ug/L	210976	1	08/05/2015 13:22	YH
Phenanthrene	1.6	0.050		ug/L	210976	1	08/05/2015 13:22	YH
Anthracene	0.31	0.050		ug/L	210976	1	08/05/2015 13:22	YH
Fluoranthene	0.27	0.10		ug/L	210976	1	08/05/2015 13:22	YH
Pyrene	0.38	0.050		ug/L	210976	1	08/05/2015 13:22	YH
Benz(a)anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 13:22	YH
Chrysene	BRL	0.050		ug/L	210976	1	08/05/2015 13:22	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 13:22	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210976	1	08/05/2015 13:22	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 13:22	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 13:22	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210976	1	08/05/2015 13:22	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210976	1	08/05/2015 13:22	YH
Surr: 4-Terphenyl-d14	85.6	55.4-136		%REC	210976	1	08/05/2015 13:22	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211023	1	08/05/2015 13:23	JW
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210956	1	08/04/2015 18:15	TA
Arsenic	BRL	0.0500		mg/L	210956	1	08/04/2015 18:15	TA
Barium	0.383	0.0200		mg/L	210956	1	08/04/2015 18:15	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-505D-20150729-01
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 3:35:00 PM
Lab ID:	1507Q56-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:15	TA
Cadmium	BRL	0.0050		mg/L	210956	1	08/04/2015 18:15	TA
Chromium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:15	TA
Copper	BRL	0.0100		mg/L	210956	1	08/04/2015 18:15	TA
Lead	BRL	0.0100		mg/L	210956	1	08/04/2015 18:15	TA
Nickel	BRL	0.0200		mg/L	210956	1	08/06/2015 14:16	TA
Selenium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:15	TA
Thallium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:15	TA
Vanadium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:15	TA
Zinc	0.0781	0.0200		mg/L	210956	1	08/04/2015 18:15	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-510BR-20150729-01
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 3:40:00 PM
Lab ID:	1507Q56-005	**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	211069	1	08/06/2015 14:48	NP
Benzene	250	50		ug/L	211069	10	08/04/2015 21:44	NP
Carbon disulfide	BRL	5.0		ug/L	211069	1	08/06/2015 14:48	NP
Ethylbenzene	64	5.0		ug/L	211069	1	08/06/2015 14:48	NP
Methylene chloride	BRL	5.0		ug/L	211069	1	08/06/2015 14:48	NP
Toluene	220	50		ug/L	211069	10	08/04/2015 21:44	NP
Trichloroethene	BRL	5.0		ug/L	211069	1	08/06/2015 14:48	NP
Xylenes, Total	120	5.0		ug/L	211069	1	08/06/2015 14:48	NP
Surr: 4-Bromofluorobenzene	83.6	70.6-123		%REC	211069	10	08/04/2015 21:44	NP
Surr: 4-Bromofluorobenzene	86.5	70.6-123		%REC	211069	1	08/06/2015 14:48	NP
Surr: Dibromofluoromethane	101	78.7-124		%REC	211069	1	08/06/2015 14:48	NP
Surr: Dibromofluoromethane	105	78.7-124		%REC	211069	10	08/04/2015 21:44	NP
Surr: Toluene-d8	98	81.3-120		%REC	211069	1	08/06/2015 14:48	NP
Surr: Toluene-d8	99.7	81.3-120		%REC	211069	10	08/04/2015 21:44	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211148	1	08/06/2015 12:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210976	1	08/05/2015 13:47	YH
Acenaphthylene	2.8	1.0		ug/L	210976	1	08/05/2015 13:47	YH
Acenaphthene	6.5	0.50		ug/L	210976	1	08/05/2015 13:47	YH
Fluorene	8.4	0.10		ug/L	210976	1	08/05/2015 13:47	YH
Phenanthrene	9.6	0.50		ug/L	210976	10	08/05/2015 21:26	YH
Anthracene	2.3	0.050		ug/L	210976	1	08/05/2015 13:47	YH
Fluoranthene	3.5	0.10		ug/L	210976	1	08/05/2015 13:47	YH
Pyrene	4.8	0.050		ug/L	210976	1	08/05/2015 13:47	YH
Benz(a)anthracene	1.4	0.050		ug/L	210976	1	08/05/2015 13:47	YH
Chrysene	1.1	0.050		ug/L	210976	1	08/05/2015 13:47	YH
Benzo(b)fluoranthene	0.92	0.10		ug/L	210976	1	08/05/2015 13:47	YH
Benzo(k)fluoranthene	0.40	0.050		ug/L	210976	1	08/05/2015 13:47	YH
Benzo(a)pyrene	1.2	0.050		ug/L	210976	1	08/05/2015 13:47	YH
Indeno(1,2,3-cd)pyrene	0.39	0.050		ug/L	210976	1	08/05/2015 13:47	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210976	1	08/05/2015 13:47	YH
Benzo(g,h,i)perylene	0.51	0.10		ug/L	210976	1	08/05/2015 13:47	YH
Surr: 4-Terphenyl-d14	79.4	55.4-136		%REC	210976	1	08/05/2015 13:47	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211023	1	08/05/2015 13:29	JW
METALS, TOTAL SW6010C				**(SW3010A)**				

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-510BR-20150729-01
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 3:40:00 PM
Lab ID:	1507Q56-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210956	1	08/04/2015 18:18	TA
Arsenic	BRL	0.0500		mg/L	210956	1	08/04/2015 18:18	TA
Barium	0.0545	0.0200		mg/L	210956	1	08/04/2015 18:18	TA
Beryllium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:18	TA
Cadmium	BRL	0.0050		mg/L	210956	1	08/04/2015 18:18	TA
Chromium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:18	TA
Copper	BRL	0.0100		mg/L	210956	1	08/04/2015 18:18	TA
Lead	BRL	0.0100		mg/L	210956	1	08/04/2015 18:18	TA
Nickel	BRL	0.0200		mg/L	210956	1	08/04/2015 18:18	TA
Selenium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:18	TA
Thallium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:18	TA
Vanadium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:18	TA
Zinc	0.130	0.0200		mg/L	210956	1	08/04/2015 18:18	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-500BR-20150729-01
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 3:50:00 PM
Lab ID:	1507Q56-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	5000		ug/L	211069	100	08/04/2015 18:11	NP
Benzene	6200	500		ug/L	211069	100	08/04/2015 18:11	NP
Carbon disulfide	BRL	500		ug/L	211069	100	08/04/2015 18:11	NP
Ethylbenzene	BRL	500		ug/L	211069	100	08/04/2015 18:11	NP
Methylene chloride	BRL	500		ug/L	211069	100	08/04/2015 18:11	NP
Toluene	BRL	500		ug/L	211069	100	08/04/2015 18:11	NP
Trichloroethene	BRL	500		ug/L	211069	100	08/04/2015 18:11	NP
Xylenes, Total	BRL	500		ug/L	211069	100	08/04/2015 18:11	NP
Surr: 4-Bromofluorobenzene	80.7	70.6-123		%REC	211069	100	08/04/2015 18:11	NP
Surr: Dibromofluoromethane	102	78.7-124		%REC	211069	100	08/04/2015 18:11	NP
Surr: Toluene-d8	98.7	81.3-120		%REC	211069	100	08/04/2015 18:11	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211148	1	08/06/2015 12:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	1200	500		ug/L	210976	1000	08/05/2015 21:53	YH
Acenaphthylene	BRL	1.0		ug/L	210976	1	08/05/2015 14:13	YH
Acenaphthene	BRL	50		ug/L	210976	100	08/05/2015 19:27	YH
Fluorene	5.1	0.10		ug/L	210976	1	08/05/2015 14:13	YH
Phenanthrene	4.3	0.050		ug/L	210976	1	08/05/2015 14:13	YH
Anthracene	0.72	0.050		ug/L	210976	1	08/05/2015 14:13	YH
Fluoranthene	0.23	0.10		ug/L	210976	1	08/05/2015 14:13	YH
Pyrene	0.29	0.050		ug/L	210976	1	08/05/2015 14:13	YH
Benz(a)anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 14:13	YH
Chrysene	BRL	0.050		ug/L	210976	1	08/05/2015 14:13	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 14:13	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210976	1	08/05/2015 14:13	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 14:13	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 14:13	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210976	1	08/05/2015 14:13	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210976	1	08/05/2015 14:13	YH
Surr: 4-Terphenyl-d14	82.1	55.4-136		%REC	210976	1	08/05/2015 14:13	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211023	1	08/05/2015 13:31	JW
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210956	1	08/04/2015 18:21	TA
Arsenic	BRL	0.0500		mg/L	210956	1	08/04/2015 18:21	TA
Barium	0.357	0.0200		mg/L	210956	1	08/04/2015 18:21	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-500BR-20150729-01
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 3:50:00 PM
Lab ID:	1507Q56-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					**(SW3010A)**			
Beryllium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:21	TA
Cadmium	0.0237	0.0050		mg/L	210956	1	08/04/2015 18:21	TA
Chromium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:21	TA
Copper	BRL	0.0100		mg/L	210956	1	08/04/2015 18:21	TA
Lead	BRL	0.0100		mg/L	210956	1	08/04/2015 18:21	TA
Nickel	BRL	0.0200		mg/L	210956	1	08/04/2015 18:21	TA
Selenium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:21	TA
Thallium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:21	TA
Vanadium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:21	TA
Zinc	0.375	0.0200		mg/L	210956	1	08/04/2015 18:21	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-509BR-20150729-01
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 4:50:00 PM
Lab ID:	1507Q56-007	**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	211069	1	08/06/2015 14:02	NP
Benzene	140	5.0		ug/L	211069	1	08/06/2015 14:02	NP
Carbon disulfide	BRL	5.0		ug/L	211069	1	08/06/2015 14:02	NP
Ethylbenzene	12	5.0		ug/L	211069	1	08/06/2015 14:02	NP
Methylene chloride	BRL	5.0		ug/L	211069	1	08/06/2015 14:02	NP
Toluene	16	5.0		ug/L	211069	1	08/06/2015 14:02	NP
Trichloroethene	BRL	5.0		ug/L	211069	1	08/06/2015 14:02	NP
Xylenes, Total	6.7	5.0		ug/L	211069	1	08/06/2015 14:02	NP
Surr: 4-Bromofluorobenzene	80	70.6-123		%REC	211069	1	08/06/2015 14:02	NP
Surr: Dibromofluoromethane	105	78.7-124		%REC	211069	1	08/06/2015 14:02	NP
Surr: Toluene-d8	96.8	81.3-120		%REC	211069	1	08/06/2015 14:02	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211148	1	08/06/2015 12:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	3.8	0.50		ug/L	210976	1	08/05/2015 14:39	YH
Acenaphthylene	BRL	1.0		ug/L	210976	1	08/05/2015 14:39	YH
Acenaphthene	1.0	0.50		ug/L	210976	1	08/05/2015 14:39	YH
Fluorene	0.82	0.10		ug/L	210976	1	08/05/2015 14:39	YH
Phenanthrene	1.2	0.050		ug/L	210976	1	08/05/2015 14:39	YH
Anthracene	0.15	0.050		ug/L	210976	1	08/05/2015 14:39	YH
Fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 14:39	YH
Pyrene	0.13	0.050		ug/L	210976	1	08/05/2015 14:39	YH
Benz(a)anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 14:39	YH
Chrysene	BRL	0.050		ug/L	210976	1	08/05/2015 14:39	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 14:39	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210976	1	08/05/2015 14:39	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 14:39	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 14:39	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210976	1	08/05/2015 14:39	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210976	1	08/05/2015 14:39	YH
Surr: 4-Terphenyl-d14	70.2	55.4-136		%REC	210976	1	08/05/2015 14:39	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211023	1	08/05/2015 13:33	JW
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210956	1	08/04/2015 18:24	TA
Arsenic	BRL	0.0500		mg/L	210956	1	08/04/2015 18:24	TA
Barium	0.108	0.0200		mg/L	210956	1	08/04/2015 18:24	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-509BR-20150729-01
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 4:50:00 PM
Lab ID:	1507Q56-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:24	TA
Cadmium	BRL	0.0050		mg/L	210956	1	08/04/2015 18:24	TA
Chromium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:24	TA
Copper	BRL	0.0100		mg/L	210956	1	08/04/2015 18:24	TA
Lead	BRL	0.0100		mg/L	210956	1	08/04/2015 18:24	TA
Nickel	BRL	0.0200		mg/L	210956	1	08/04/2015 18:24	TA
Selenium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:24	TA
Thallium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:24	TA
Vanadium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:24	TA
Zinc	0.182	0.0200		mg/L	210956	1	08/04/2015 18:24	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-513BR-20150729-01
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 5:00:00 PM
Lab ID:	1507Q56-008	**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	211069	1	08/05/2015 00:15	NP
Benzene	BRL	5.0		ug/L	211069	1	08/05/2015 00:15	NP
Carbon disulfide	BRL	5.0		ug/L	211069	1	08/05/2015 00:15	NP
Ethylbenzene	BRL	5.0		ug/L	211069	1	08/05/2015 00:15	NP
Methylene chloride	BRL	5.0		ug/L	211069	1	08/05/2015 00:15	NP
Toluene	BRL	5.0		ug/L	211069	1	08/05/2015 00:15	NP
Trichloroethene	BRL	5.0		ug/L	211069	1	08/05/2015 00:15	NP
Xylenes, Total	BRL	5.0		ug/L	211069	1	08/05/2015 00:15	NP
Surr: 4-Bromofluorobenzene	77.5	70.6-123		%REC	211069	1	08/05/2015 00:15	NP
Surr: Dibromofluoromethane	103	78.7-124		%REC	211069	1	08/05/2015 00:15	NP
Surr: Toluene-d8	98.3	81.3-120		%REC	211069	1	08/05/2015 00:15	NP
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	211148	1	08/06/2015 12:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D					**(SW3510C)**			
Naphthalene	BRL	0.50		ug/L	210976	1	08/05/2015 15:05	YH
Acenaphthylene	BRL	1.0		ug/L	210976	1	08/05/2015 15:05	YH
Acenaphthene	BRL	0.50		ug/L	210976	1	08/05/2015 15:05	YH
Fluorene	BRL	0.10		ug/L	210976	1	08/05/2015 15:05	YH
Phenanthrene	BRL	0.050		ug/L	210976	1	08/05/2015 15:05	YH
Anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 15:05	YH
Fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 15:05	YH
Pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 15:05	YH
Benz(a)anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 15:05	YH
Chrysene	BRL	0.050		ug/L	210976	1	08/05/2015 15:05	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 15:05	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210976	1	08/05/2015 15:05	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 15:05	YH
Indeno(1,2,3-cd)pyrene	0.054	0.050		ug/L	210976	1	08/05/2015 15:05	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210976	1	08/05/2015 15:05	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210976	1	08/05/2015 15:05	YH
Surr: 4-Terphenyl-d14	91.4	55.4-136		%REC	210976	1	08/05/2015 15:05	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	211023	1	08/05/2015 13:35	JW
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210956	1	08/04/2015 18:27	TA
Arsenic	BRL	0.0500		mg/L	210956	1	08/04/2015 18:27	TA
Barium	0.114	0.0200		mg/L	210956	1	08/04/2015 18:27	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-513BR-20150729-01
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 5:00:00 PM
Lab ID:	1507Q56-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:27	TA
Cadmium	BRL	0.0050		mg/L	210956	1	08/04/2015 18:27	TA
Chromium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:27	TA
Copper	BRL	0.0100		mg/L	210956	1	08/04/2015 18:27	TA
Lead	BRL	0.0100		mg/L	210956	1	08/04/2015 18:27	TA
Nickel	BRL	0.0200		mg/L	210956	1	08/04/2015 18:27	TA
Selenium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:27	TA
Thallium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:27	TA
Vanadium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:27	TA
Zinc	BRL	0.0200		mg/L	210956	1	08/04/2015 18:27	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-12-20150729-01
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 5:45:00 PM
Lab ID:	1507Q56-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	1000		ug/L	211069	20	08/04/2015 19:42	NP
Benzene	6200	250		ug/L	211069	50	08/05/2015 18:53	NP
Carbon disulfide	BRL	100		ug/L	211069	20	08/04/2015 19:42	NP
Ethylbenzene	1800	100		ug/L	211069	20	08/04/2015 19:42	NP
Methylene chloride	BRL	100		ug/L	211069	20	08/04/2015 19:42	NP
Toluene	690	100		ug/L	211069	20	08/04/2015 19:42	NP
Trichloroethene	BRL	100		ug/L	211069	20	08/04/2015 19:42	NP
Xylenes, Total	1200	100		ug/L	211069	20	08/04/2015 19:42	NP
Surr: 4-Bromofluorobenzene	80.7	70.6-123		%REC	211069	50	08/05/2015 18:53	NP
Surr: 4-Bromofluorobenzene	83.9	70.6-123		%REC	211069	20	08/04/2015 19:42	NP
Surr: Dibromofluoromethane	103	78.7-124		%REC	211069	50	08/05/2015 18:53	NP
Surr: Dibromofluoromethane	99.2	78.7-124		%REC	211069	20	08/04/2015 19:42	NP
Surr: Toluene-d8	95	81.3-120		%REC	211069	50	08/05/2015 18:53	NP
Surr: Toluene-d8	96.3	81.3-120		%REC	211069	20	08/04/2015 19:42	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211148	1	08/06/2015 12:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	4700	500		ug/L	210976	1000	08/05/2015 20:20	YH
Acenaphthylene	1.4	1.0		ug/L	210976	1	08/05/2015 15:32	YH
Acenaphthene	74	50		ug/L	210976	100	08/05/2015 19:53	YH
Fluorene	15	10		ug/L	210976	100	08/05/2015 19:53	YH
Phenanthrene	10	5.0		ug/L	210976	100	08/05/2015 19:53	YH
Anthracene	1.3	0.050		ug/L	210976	1	08/05/2015 15:32	YH
Fluoranthene	0.25	0.10		ug/L	210976	1	08/05/2015 15:32	YH
Pyrene	0.26	0.050		ug/L	210976	1	08/05/2015 15:32	YH
Benz(a)anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 15:32	YH
Chrysene	BRL	0.050		ug/L	210976	1	08/05/2015 15:32	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 15:32	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210976	1	08/05/2015 15:32	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 15:32	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 15:32	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210976	1	08/05/2015 15:32	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210976	1	08/05/2015 15:32	YH
Surr: 4-Terphenyl-d14	80.6	55.4-136		%REC	210976	1	08/05/2015 15:32	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211023	1	08/05/2015 13:37	JW
METALS, TOTAL SW6010C				**(SW3010A)**				

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-12-20150729-01
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015 5:45:00 PM
Lab ID:	1507Q56-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210956	1	08/04/2015 18:30	TA
Arsenic	BRL	0.0500		mg/L	210956	1	08/04/2015 18:30	TA
Barium	0.218	0.0200		mg/L	210956	1	08/04/2015 18:30	TA
Beryllium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:30	TA
Cadmium	BRL	0.0050		mg/L	210956	1	08/04/2015 18:30	TA
Chromium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:30	TA
Copper	BRL	0.0100		mg/L	210956	1	08/04/2015 18:30	TA
Lead	BRL	0.0100		mg/L	210956	1	08/04/2015 18:30	TA
Nickel	BRL	0.0200		mg/L	210956	1	08/04/2015 18:30	TA
Selenium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:30	TA
Thallium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:30	TA
Vanadium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:30	TA
Zinc	BRL	0.0200		mg/L	210956	1	08/04/2015 18:30	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-508BR-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 8:45:00 AM
Lab ID:	1507Q56-010	**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	211069	1	08/05/2015 00:37	NP
Benzene	BRL	5.0		ug/L	211069	1	08/05/2015 00:37	NP
Carbon disulfide	BRL	5.0		ug/L	211069	1	08/05/2015 00:37	NP
Ethylbenzene	BRL	5.0		ug/L	211069	1	08/05/2015 00:37	NP
Methylene chloride	BRL	5.0		ug/L	211069	1	08/05/2015 00:37	NP
Toluene	BRL	5.0		ug/L	211069	1	08/05/2015 00:37	NP
Trichloroethene	BRL	5.0		ug/L	211069	1	08/05/2015 00:37	NP
Xylenes, Total	BRL	5.0		ug/L	211069	1	08/05/2015 00:37	NP
Surr: 4-Bromofluorobenzene	79.8	70.6-123		%REC	211069	1	08/05/2015 00:37	NP
Surr: Dibromofluoromethane	103	78.7-124		%REC	211069	1	08/05/2015 00:37	NP
Surr: Toluene-d8	101	81.3-120		%REC	211069	1	08/05/2015 00:37	NP
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	211148	1	08/06/2015 12:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D					**(SW3510C)**			
Naphthalene	BRL	0.50		ug/L	210976	1	08/05/2015 15:58	YH
Acenaphthylene	BRL	1.0		ug/L	210976	1	08/05/2015 15:58	YH
Acenaphthene	BRL	0.50		ug/L	210976	1	08/05/2015 15:58	YH
Fluorene	BRL	0.10		ug/L	210976	1	08/05/2015 15:58	YH
Phenanthrene	BRL	0.050		ug/L	210976	1	08/05/2015 15:58	YH
Anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 15:58	YH
Fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 15:58	YH
Pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 15:58	YH
Benz(a)anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 15:58	YH
Chrysene	BRL	0.050		ug/L	210976	1	08/05/2015 15:58	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 15:58	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210976	1	08/05/2015 15:58	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 15:58	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 15:58	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210976	1	08/05/2015 15:58	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210976	1	08/05/2015 15:58	YH
Surr: 4-Terphenyl-d14	93.1	55.4-136		%REC	210976	1	08/05/2015 15:58	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	211023	1	08/05/2015 13:39	JW
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210956	1	08/04/2015 18:39	TA
Arsenic	BRL	0.0500		mg/L	210956	1	08/04/2015 18:39	TA
Barium	0.526	0.0200		mg/L	210956	1	08/04/2015 18:39	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-508BR-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 8:45:00 AM
Lab ID:	1507Q56-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:39	TA
Cadmium	BRL	0.0050		mg/L	210956	1	08/04/2015 18:39	TA
Chromium	0.0161	0.0100		mg/L	210956	1	08/04/2015 18:39	TA
Copper	BRL	0.0100		mg/L	210956	1	08/04/2015 18:39	TA
Lead	BRL	0.0100		mg/L	210956	1	08/04/2015 18:39	TA
Nickel	BRL	0.0200		mg/L	210956	1	08/04/2015 18:39	TA
Selenium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:39	TA
Thallium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:39	TA
Vanadium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:39	TA
Zinc	BRL	0.0200		mg/L	210956	1	08/04/2015 18:39	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-512BR-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 9:00:00 AM
Lab ID:	1507Q56-011	**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	211069	1	08/05/2015 01:00	NP
Benzene	BRL	5.0		ug/L	211069	1	08/05/2015 01:00	NP
Carbon disulfide	BRL	5.0		ug/L	211069	1	08/05/2015 01:00	NP
Ethylbenzene	BRL	5.0		ug/L	211069	1	08/05/2015 01:00	NP
Methylene chloride	BRL	5.0		ug/L	211069	1	08/05/2015 01:00	NP
Toluene	BRL	5.0		ug/L	211069	1	08/05/2015 01:00	NP
Trichloroethene	BRL	5.0		ug/L	211069	1	08/05/2015 01:00	NP
Xylenes, Total	BRL	5.0		ug/L	211069	1	08/05/2015 01:00	NP
Surr: 4-Bromofluorobenzene	79.6	70.6-123		%REC	211069	1	08/05/2015 01:00	NP
Surr: Dibromofluoromethane	103	78.7-124		%REC	211069	1	08/05/2015 01:00	NP
Surr: Toluene-d8	99	81.3-120		%REC	211069	1	08/05/2015 01:00	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211148	1	08/06/2015 12:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	0.69	0.50		ug/L	210976	1	08/05/2015 16:24	YH
Acenaphthylene	BRL	1.0		ug/L	210976	1	08/05/2015 16:24	YH
Acenaphthene	BRL	0.50		ug/L	210976	1	08/05/2015 16:24	YH
Fluorene	BRL	0.10		ug/L	210976	1	08/05/2015 16:24	YH
Phenanthrene	BRL	0.050		ug/L	210976	1	08/05/2015 16:24	YH
Anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 16:24	YH
Fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 16:24	YH
Pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 16:24	YH
Benz(a)anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 16:24	YH
Chrysene	BRL	0.050		ug/L	210976	1	08/05/2015 16:24	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 16:24	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210976	1	08/05/2015 16:24	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 16:24	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 16:24	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210976	1	08/05/2015 16:24	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210976	1	08/05/2015 16:24	YH
Surr: 4-Terphenyl-d14	101	55.4-136		%REC	210976	1	08/05/2015 16:24	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211023	1	08/05/2015 13:41	JW
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210956	1	08/04/2015 18:42	TA
Arsenic	BRL	0.0500		mg/L	210956	1	08/04/2015 18:42	TA
Barium	0.190	0.0200		mg/L	210956	1	08/04/2015 18:42	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-512BR-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 9:00:00 AM
Lab ID:	1507Q56-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					**(SW3010A)**			
Beryllium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:42	TA
Cadmium	BRL	0.0050		mg/L	210956	1	08/04/2015 18:42	TA
Chromium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:42	TA
Copper	BRL	0.0100		mg/L	210956	1	08/04/2015 18:42	TA
Lead	BRL	0.0100		mg/L	210956	1	08/04/2015 18:42	TA
Nickel	BRL	0.0200		mg/L	210956	1	08/04/2015 18:42	TA
Selenium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:42	TA
Thallium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:42	TA
Vanadium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:42	TA
Zinc	0.0781	0.0200		mg/L	210956	1	08/04/2015 18:42	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-318-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 9:07:00 AM
Lab ID:	1507Q56-012	**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	211069	1	08/06/2015 14:25	NP
Benzene	19	5.0		ug/L	211069	1	08/06/2015 14:25	NP
Carbon disulfide	BRL	5.0		ug/L	211069	1	08/06/2015 14:25	NP
Ethylbenzene	BRL	5.0		ug/L	211069	1	08/06/2015 14:25	NP
Methylene chloride	BRL	5.0		ug/L	211069	1	08/06/2015 14:25	NP
Toluene	BRL	5.0		ug/L	211069	1	08/06/2015 14:25	NP
Trichloroethene	BRL	5.0		ug/L	211069	1	08/06/2015 14:25	NP
Xylenes, Total	12	5.0		ug/L	211069	1	08/06/2015 14:25	NP
Surr: 4-Bromofluorobenzene	81.6	70.6-123		%REC	211069	1	08/06/2015 14:25	NP
Surr: Dibromofluoromethane	98.9	78.7-124		%REC	211069	1	08/06/2015 14:25	NP
Surr: Toluene-d8	97.5	81.3-120		%REC	211069	1	08/06/2015 14:25	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211148	1	08/06/2015 12:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	540	50		ug/L	210976	100	08/05/2015 22:20	YH
Acenaphthylene	BRL	1.0		ug/L	210976	1	08/05/2015 16:50	YH
Acenaphthene	BRL	50		ug/L	210976	100	08/05/2015 22:20	YH
Fluorene	4.3	0.10		ug/L	210976	1	08/05/2015 16:50	YH
Phenanthrene	3.7	0.050		ug/L	210976	1	08/05/2015 16:50	YH
Anthracene	0.72	0.050		ug/L	210976	1	08/05/2015 16:50	YH
Fluoranthene	0.28	0.10		ug/L	210976	1	08/05/2015 16:50	YH
Pyrene	0.34	0.050		ug/L	210976	1	08/05/2015 16:50	YH
Benz(a)anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 16:50	YH
Chrysene	BRL	0.050		ug/L	210976	1	08/05/2015 16:50	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 16:50	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210976	1	08/05/2015 16:50	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 16:50	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 16:50	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210976	1	08/05/2015 16:50	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210976	1	08/05/2015 16:50	YH
Surr: 4-Terphenyl-d14	85	55.4-136		%REC	210976	1	08/05/2015 16:50	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211023	1	08/05/2015 13:43	JW
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210956	1	08/04/2015 18:45	TA
Arsenic	BRL	0.0500		mg/L	210956	1	08/04/2015 18:45	TA
Barium	0.566	0.0200		mg/L	210956	1	08/04/2015 18:45	TA

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: 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-318-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 9:07:00 AM
Lab ID:	1507Q56-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:45	TA
Cadmium	BRL	0.0050		mg/L	210956	1	08/04/2015 18:45	TA
Chromium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:45	TA
Copper	BRL	0.0100		mg/L	210956	1	08/04/2015 18:45	TA
Lead	BRL	0.0100		mg/L	210956	1	08/04/2015 18:45	TA
Nickel	BRL	0.0200		mg/L	210956	1	08/06/2015 14:19	TA
Selenium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:45	TA
Thallium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:45	TA
Vanadium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:45	TA
Zinc	0.0636	0.0200		mg/L	210956	1	08/04/2015 18:45	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-19-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 9:25:00 AM
Lab ID:	1507Q56-013	**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	211069	1	08/05/2015 01:23	NP
Benzene	BRL	5.0		ug/L	211069	1	08/05/2015 01:23	NP
Carbon disulfide	BRL	5.0		ug/L	211069	1	08/05/2015 01:23	NP
Ethylbenzene	BRL	5.0		ug/L	211069	1	08/05/2015 01:23	NP
Methylene chloride	BRL	5.0		ug/L	211069	1	08/05/2015 01:23	NP
Toluene	BRL	5.0		ug/L	211069	1	08/05/2015 01:23	NP
Trichloroethene	BRL	5.0		ug/L	211069	1	08/05/2015 01:23	NP
Xylenes, Total	BRL	5.0		ug/L	211069	1	08/05/2015 01:23	NP
Surr: 4-Bromofluorobenzene	79.3	70.6-123		%REC	211069	1	08/05/2015 01:23	NP
Surr: Dibromofluoromethane	106	78.7-124		%REC	211069	1	08/05/2015 01:23	NP
Surr: Toluene-d8	98.8	81.3-120		%REC	211069	1	08/05/2015 01:23	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211148	1	08/06/2015 12:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210976	1	08/05/2015 17:16	YH
Acenaphthylene	BRL	1.0		ug/L	210976	1	08/05/2015 17:16	YH
Acenaphthene	BRL	0.50		ug/L	210976	1	08/05/2015 17:16	YH
Fluorene	BRL	0.10		ug/L	210976	1	08/05/2015 17:16	YH
Phenanthrene	BRL	0.050		ug/L	210976	1	08/05/2015 17:16	YH
Anthracene	0.12	0.050		ug/L	210976	1	08/05/2015 17:16	YH
Fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 17:16	YH
Pyrene	0.12	0.050		ug/L	210976	1	08/05/2015 17:16	YH
Benz(a)anthracene	0.053	0.050		ug/L	210976	1	08/05/2015 17:16	YH
Chrysene	BRL	0.050		ug/L	210976	1	08/05/2015 17:16	YH
Benzo(b)fluoranthene	0.11	0.10		ug/L	210976	1	08/05/2015 17:16	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210976	1	08/05/2015 17:16	YH
Benzo(a)pyrene	0.054	0.050		ug/L	210976	1	08/05/2015 17:16	YH
Indeno(1,2,3-cd)pyrene	0.070	0.050		ug/L	210976	1	08/05/2015 17:16	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210976	1	08/05/2015 17:16	YH
Benzo(g,h,i)perylene	0.10	0.10		ug/L	210976	1	08/05/2015 17:16	YH
Surr: 4-Terphenyl-d14	88.6	55.4-136		%REC	210976	1	08/05/2015 17:16	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211023	1	08/05/2015 13:45	JW
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210956	1	08/04/2015 18:48	TA
Arsenic	BRL	0.0500		mg/L	210956	1	08/04/2015 18:48	TA
Barium	0.0881	0.0200		mg/L	210956	1	08/04/2015 18:48	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-19-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 9:25:00 AM
Lab ID:	1507Q56-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:48	TA
Cadmium	BRL	0.0050		mg/L	210956	1	08/04/2015 18:48	TA
Chromium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:48	TA
Copper	BRL	0.0100		mg/L	210956	1	08/04/2015 18:48	TA
Lead	BRL	0.0100		mg/L	210956	1	08/04/2015 18:48	TA
Nickel	BRL	0.0200		mg/L	210956	1	08/04/2015 18:48	TA
Selenium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:48	TA
Thallium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:48	TA
Vanadium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:48	TA
Zinc	0.113	0.0200		mg/L	210956	1	08/04/2015 18:48	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-507BR-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 11:50:00 AM
Lab ID:	1507Q56-014	**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	211069	1	08/05/2015 01:45	NP
Benzene	BRL	5.0		ug/L	211069	1	08/05/2015 01:45	NP
Carbon disulfide	BRL	5.0		ug/L	211069	1	08/05/2015 01:45	NP
Ethylbenzene	BRL	5.0		ug/L	211069	1	08/05/2015 01:45	NP
Methylene chloride	BRL	5.0		ug/L	211069	1	08/05/2015 01:45	NP
Toluene	BRL	5.0		ug/L	211069	1	08/05/2015 01:45	NP
Trichloroethene	BRL	5.0		ug/L	211069	1	08/05/2015 01:45	NP
Xylenes, Total	BRL	5.0		ug/L	211069	1	08/05/2015 01:45	NP
Surr: 4-Bromofluorobenzene	79.8	70.6-123		%REC	211069	1	08/05/2015 01:45	NP
Surr: Dibromofluoromethane	102	78.7-124		%REC	211069	1	08/05/2015 01:45	NP
Surr: Toluene-d8	99	81.3-120		%REC	211069	1	08/05/2015 01:45	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211148	1	08/06/2015 12:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210976	1	08/05/2015 17:42	YH
Acenaphthylene	BRL	1.0		ug/L	210976	1	08/05/2015 17:42	YH
Acenaphthene	BRL	0.50		ug/L	210976	1	08/05/2015 17:42	YH
Fluorene	BRL	0.10		ug/L	210976	1	08/05/2015 17:42	YH
Phenanthrene	BRL	0.050		ug/L	210976	1	08/05/2015 17:42	YH
Anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 17:42	YH
Fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 17:42	YH
Pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 17:42	YH
Benz(a)anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 17:42	YH
Chrysene	BRL	0.050		ug/L	210976	1	08/05/2015 17:42	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 17:42	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210976	1	08/05/2015 17:42	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 17:42	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 17:42	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210976	1	08/05/2015 17:42	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210976	1	08/05/2015 17:42	YH
Surr: 4-Terphenyl-d14	85.3	55.4-136		%REC	210976	1	08/05/2015 17:42	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211023	1	08/05/2015 13:46	JW
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210956	1	08/04/2015 18:51	TA
Arsenic	BRL	0.0500		mg/L	210956	1	08/04/2015 18:51	TA
Barium	0.911	0.0200		mg/L	210956	1	08/04/2015 18:51	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-507BR-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 11:50:00 AM
Lab ID:	1507Q56-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:51	TA
Cadmium	BRL	0.0050		mg/L	210956	1	08/04/2015 18:51	TA
Chromium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:51	TA
Copper	BRL	0.0100		mg/L	210956	1	08/04/2015 18:51	TA
Lead	BRL	0.0100		mg/L	210956	1	08/04/2015 18:51	TA
Nickel	0.0211	0.0200		mg/L	210956	1	08/06/2015 14:22	TA
Selenium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:51	TA
Thallium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:51	TA
Vanadium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:51	TA
Zinc	0.0574	0.0200		mg/L	210956	1	08/04/2015 18:51	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-206-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 12:45:00 PM
Lab ID:	1507Q56-015	**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	211069	1	08/05/2015 02:08	NP
Benzene	BRL	5.0		ug/L	211069	1	08/05/2015 02:08	NP
Carbon disulfide	BRL	5.0		ug/L	211069	1	08/05/2015 02:08	NP
Ethylbenzene	BRL	5.0		ug/L	211069	1	08/05/2015 02:08	NP
Methylene chloride	BRL	5.0		ug/L	211069	1	08/05/2015 02:08	NP
Toluene	BRL	5.0		ug/L	211069	1	08/05/2015 02:08	NP
Trichloroethene	BRL	5.0		ug/L	211069	1	08/05/2015 02:08	NP
Xylenes, Total	BRL	5.0		ug/L	211069	1	08/05/2015 02:08	NP
Surr: 4-Bromofluorobenzene	78	70.6-123		%REC	211069	1	08/05/2015 02:08	NP
Surr: Dibromofluoromethane	103	78.7-124		%REC	211069	1	08/05/2015 02:08	NP
Surr: Toluene-d8	100	81.3-120		%REC	211069	1	08/05/2015 02:08	NP
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	211148	1	08/06/2015 12:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D					**(SW3510C)**			
Naphthalene	BRL	0.50		ug/L	210976	1	08/05/2015 14:09	YH
Acenaphthylene	BRL	1.0		ug/L	210976	1	08/05/2015 14:09	YH
Acenaphthene	BRL	0.50		ug/L	210976	1	08/05/2015 14:09	YH
Fluorene	BRL	0.10		ug/L	210976	1	08/05/2015 14:09	YH
Phenanthrene	BRL	0.050		ug/L	210976	1	08/05/2015 14:09	YH
Anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 14:09	YH
Fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 14:09	YH
Pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 14:09	YH
Benz(a)anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 14:09	YH
Chrysene	BRL	0.050		ug/L	210976	1	08/05/2015 14:09	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 14:09	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210976	1	08/05/2015 14:09	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 14:09	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 14:09	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210976	1	08/05/2015 14:09	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210976	1	08/05/2015 14:09	YH
Surr: 4-Terphenyl-d14	87.6	55.4-136		%REC	210976	1	08/05/2015 14:09	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	211023	1	08/05/2015 13:52	JW
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210956	1	08/04/2015 18:54	TA
Arsenic	BRL	0.0500		mg/L	210956	1	08/04/2015 18:54	TA
Barium	0.276	0.0200		mg/L	210956	1	08/04/2015 18:54	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-206-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 12:45:00 PM
Lab ID:	1507Q56-015	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:54	TA
Cadmium	BRL	0.0050		mg/L	210956	1	08/04/2015 18:54	TA
Chromium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:54	TA
Copper	BRL	0.0100		mg/L	210956	1	08/04/2015 18:54	TA
Lead	BRL	0.0100		mg/L	210956	1	08/04/2015 18:54	TA
Nickel	BRL	0.0200		mg/L	210956	1	08/04/2015 18:54	TA
Selenium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:54	TA
Thallium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:54	TA
Vanadium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:54	TA
Zinc	0.0759	0.0200		mg/L	210956	1	08/04/2015 18:54	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-304-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 4:15:00 PM
Lab ID:	1507Q56-016	**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	211069	1	08/05/2015 02:31	NP
Benzene	22	5.0		ug/L	211069	1	08/05/2015 02:31	NP
Carbon disulfide	BRL	5.0		ug/L	211069	1	08/05/2015 02:31	NP
Ethylbenzene	BRL	5.0		ug/L	211069	1	08/05/2015 02:31	NP
Methylene chloride	BRL	5.0		ug/L	211069	1	08/05/2015 02:31	NP
Toluene	BRL	5.0		ug/L	211069	1	08/05/2015 02:31	NP
Trichloroethene	BRL	5.0		ug/L	211069	1	08/05/2015 02:31	NP
Xylenes, Total	7.9	5.0		ug/L	211069	1	08/05/2015 02:31	NP
Surr: 4-Bromofluorobenzene	81.9	70.6-123		%REC	211069	1	08/05/2015 02:31	NP
Surr: Dibromofluoromethane	105	78.7-124		%REC	211069	1	08/05/2015 02:31	NP
Surr: Toluene-d8	99.6	81.3-120		%REC	211069	1	08/05/2015 02:31	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211148	1	08/06/2015 12:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	18	5.0		ug/L	210976	10	08/06/2015 13:37	YH
Acenaphthylene	BRL	1.0		ug/L	210976	1	08/05/2015 19:11	YH
Acenaphthene	27	5.0		ug/L	210976	10	08/06/2015 13:37	YH
Fluorene	4.0	0.10		ug/L	210976	1	08/05/2015 19:11	YH
Phenanthrene	2.9	0.050		ug/L	210976	1	08/05/2015 19:11	YH
Anthracene	0.56	0.050		ug/L	210976	1	08/05/2015 19:11	YH
Fluoranthene	0.38	0.10		ug/L	210976	1	08/05/2015 19:11	YH
Pyrene	0.39	0.050		ug/L	210976	1	08/05/2015 19:11	YH
Benz(a)anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 19:11	YH
Chrysene	BRL	0.050		ug/L	210976	1	08/05/2015 19:11	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 19:11	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210976	1	08/05/2015 19:11	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 19:11	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 19:11	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210976	1	08/05/2015 19:11	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210976	1	08/05/2015 19:11	YH
Surr: 4-Terphenyl-d14	80.5	55.4-136		%REC	210976	1	08/05/2015 19:11	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211023	1	08/05/2015 13:54	JW
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210956	1	08/04/2015 18:57	TA
Arsenic	BRL	0.0500		mg/L	210956	1	08/04/2015 18:57	TA
Barium	0.384	0.0200		mg/L	210956	1	08/04/2015 18:57	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-304-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 4:15:00 PM
Lab ID:	1507Q56-016	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:57	TA
Cadmium	BRL	0.0050		mg/L	210956	1	08/04/2015 18:57	TA
Chromium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:57	TA
Copper	BRL	0.0100		mg/L	210956	1	08/04/2015 18:57	TA
Lead	BRL	0.0100		mg/L	210956	1	08/04/2015 18:57	TA
Nickel	BRL	0.0200		mg/L	210956	1	08/06/2015 14:25	TA
Selenium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:57	TA
Thallium	BRL	0.0200		mg/L	210956	1	08/04/2015 18:57	TA
Vanadium	BRL	0.0100		mg/L	210956	1	08/04/2015 18:57	TA
Zinc	0.0475	0.0200		mg/L	210956	1	08/04/2015 18:57	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-404DR-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 12:15:00 PM
Lab ID:	1507Q56-017	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	50		ug/L	211069	1	08/05/2015 02:53	NP
Benzene	BRL	5.0		ug/L	211069	1	08/05/2015 02:53	NP
Carbon disulfide	BRL	5.0		ug/L	211069	1	08/05/2015 02:53	NP
Ethylbenzene	BRL	5.0		ug/L	211069	1	08/05/2015 02:53	NP
Methylene chloride	BRL	5.0		ug/L	211069	1	08/05/2015 02:53	NP
Toluene	BRL	5.0		ug/L	211069	1	08/05/2015 02:53	NP
Trichloroethene	BRL	5.0		ug/L	211069	1	08/05/2015 02:53	NP
Xylenes, Total	BRL	5.0		ug/L	211069	1	08/05/2015 02:53	NP
Surr: 4-Bromofluorobenzene	79.5	70.6-123		%REC	211069	1	08/05/2015 02:53	NP
Surr: Dibromofluoromethane	103	78.7-124		%REC	211069	1	08/05/2015 02:53	NP
Surr: Toluene-d8	96.7	81.3-120		%REC	211069	1	08/05/2015 02:53	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211148	1	08/06/2015 12:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210976	1	08/05/2015 19:38	YH
Acenaphthylene	BRL	1.0		ug/L	210976	1	08/05/2015 19:38	YH
Acenaphthene	BRL	0.50		ug/L	210976	1	08/05/2015 19:38	YH
Fluorene	BRL	0.10		ug/L	210976	1	08/05/2015 19:38	YH
Phenanthrene	BRL	0.050		ug/L	210976	1	08/05/2015 19:38	YH
Anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 19:38	YH
Fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 19:38	YH
Pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 19:38	YH
Benz(a)anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 19:38	YH
Chrysene	BRL	0.050		ug/L	210976	1	08/05/2015 19:38	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 19:38	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210976	1	08/05/2015 19:38	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 19:38	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 19:38	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210976	1	08/05/2015 19:38	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210976	1	08/05/2015 19:38	YH
Surr: 4-Terphenyl-d14	94.8	55.4-136		%REC	210976	1	08/05/2015 19:38	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211023	1	08/05/2015 13:56	JW
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210956	1	08/04/2015 19:00	TA
Arsenic	BRL	0.0500		mg/L	210956	1	08/04/2015 19:00	TA
Barium	0.118	0.0200		mg/L	210956	1	08/04/2015 19:00	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-404DR-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 12:15:00 PM
Lab ID:	1507Q56-017	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210956	1	08/04/2015 19:00	TA
Cadmium	BRL	0.0050		mg/L	210956	1	08/04/2015 19:00	TA
Chromium	BRL	0.0100		mg/L	210956	1	08/04/2015 19:00	TA
Copper	BRL	0.0100		mg/L	210956	1	08/04/2015 19:00	TA
Lead	BRL	0.0100		mg/L	210956	1	08/04/2015 19:00	TA
Nickel	BRL	0.0200		mg/L	210956	1	08/04/2015 19:00	TA
Selenium	BRL	0.0200		mg/L	210956	1	08/04/2015 19:00	TA
Thallium	BRL	0.0200		mg/L	210956	1	08/04/2015 19:00	TA
Vanadium	BRL	0.0100		mg/L	210956	1	08/04/2015 19:00	TA
Zinc	BRL	0.0200		mg/L	210956	1	08/04/2015 19:00	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-401D-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 3:05:00 PM
Lab ID:	1507Q56-018	**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	211069	1	08/05/2015 03:16	NP
Benzene	BRL	5.0		ug/L	211069	1	08/05/2015 03:16	NP
Carbon disulfide	BRL	5.0		ug/L	211069	1	08/05/2015 03:16	NP
Ethylbenzene	BRL	5.0		ug/L	211069	1	08/05/2015 03:16	NP
Methylene chloride	BRL	5.0		ug/L	211069	1	08/05/2015 03:16	NP
Toluene	BRL	5.0		ug/L	211069	1	08/05/2015 03:16	NP
Trichloroethene	14	5.0		ug/L	211069	1	08/05/2015 03:16	NP
Xylenes, Total	BRL	5.0		ug/L	211069	1	08/05/2015 03:16	NP
Surr: 4-Bromofluorobenzene	78.4	70.6-123		%REC	211069	1	08/05/2015 03:16	NP
Surr: Dibromofluoromethane	105	78.7-124		%REC	211069	1	08/05/2015 03:16	NP
Surr: Toluene-d8	100	81.3-120		%REC	211069	1	08/05/2015 03:16	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211148	1	08/06/2015 12:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210976	1	08/05/2015 20:05	YH
Acenaphthylene	BRL	1.0		ug/L	210976	1	08/05/2015 20:05	YH
Acenaphthene	BRL	0.50		ug/L	210976	1	08/05/2015 20:05	YH
Fluorene	BRL	0.10		ug/L	210976	1	08/05/2015 20:05	YH
Phenanthrene	BRL	0.050		ug/L	210976	1	08/05/2015 20:05	YH
Anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 20:05	YH
Fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 20:05	YH
Pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 20:05	YH
Benz(a)anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 20:05	YH
Chrysene	BRL	0.050		ug/L	210976	1	08/05/2015 20:05	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 20:05	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210976	1	08/05/2015 20:05	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 20:05	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 20:05	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210976	1	08/05/2015 20:05	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210976	1	08/05/2015 20:05	YH
Surr: 4-Terphenyl-d14	87.7	55.4-136		%REC	210976	1	08/05/2015 20:05	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211023	1	08/05/2015 13:58	JW
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210956	1	08/04/2015 19:02	TA
Arsenic	BRL	0.0500		mg/L	210956	1	08/04/2015 19:02	TA
Barium	0.0775	0.0200		mg/L	210956	1	08/04/2015 19:02	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-401D-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 3:05:00 PM
Lab ID:	1507Q56-018	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210956	1	08/04/2015 19:02	TA
Cadmium	0.0421	0.0050		mg/L	210956	1	08/04/2015 19:02	TA
Chromium	BRL	0.0100		mg/L	210956	1	08/04/2015 19:02	TA
Copper	BRL	0.0100		mg/L	210956	1	08/04/2015 19:02	TA
Lead	BRL	0.0100		mg/L	210956	1	08/04/2015 19:02	TA
Nickel	BRL	0.0200		mg/L	210956	1	08/04/2015 19:02	TA
Selenium	BRL	0.0200		mg/L	210956	1	08/04/2015 19:02	TA
Thallium	BRL	0.0200		mg/L	210956	1	08/04/2015 19:02	TA
Vanadium	BRL	0.0100		mg/L	210956	1	08/04/2015 19:02	TA
Zinc	0.0839	0.0200		mg/L	210956	1	08/04/2015 19:02	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-501S-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 3:20:00 PM
Lab ID:	1507Q56-019	**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	211069	1	08/05/2015 03:39	NP
Benzene	BRL	5.0		ug/L	211069	1	08/05/2015 03:39	NP
Carbon disulfide	BRL	5.0		ug/L	211069	1	08/05/2015 03:39	NP
Ethylbenzene	BRL	5.0		ug/L	211069	1	08/05/2015 03:39	NP
Methylene chloride	BRL	5.0		ug/L	211069	1	08/05/2015 03:39	NP
Toluene	BRL	5.0		ug/L	211069	1	08/05/2015 03:39	NP
Trichloroethene	BRL	5.0		ug/L	211069	1	08/05/2015 03:39	NP
Xylenes, Total	BRL	5.0		ug/L	211069	1	08/05/2015 03:39	NP
Surr: 4-Bromofluorobenzene	78.5	70.6-123		%REC	211069	1	08/05/2015 03:39	NP
Surr: Dibromofluoromethane	103	78.7-124		%REC	211069	1	08/05/2015 03:39	NP
Surr: Toluene-d8	99.4	81.3-120		%REC	211069	1	08/05/2015 03:39	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211148	1	08/06/2015 12:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	210976	1	08/05/2015 20:33	YH
Acenaphthylene	BRL	1.0		ug/L	210976	1	08/05/2015 20:33	YH
Acenaphthene	BRL	0.50		ug/L	210976	1	08/05/2015 20:33	YH
Fluorene	BRL	0.10		ug/L	210976	1	08/05/2015 20:33	YH
Phenanthrene	BRL	0.050		ug/L	210976	1	08/05/2015 20:33	YH
Anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 20:33	YH
Fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 20:33	YH
Pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 20:33	YH
Benz(a)anthracene	BRL	0.050		ug/L	210976	1	08/05/2015 20:33	YH
Chrysene	BRL	0.050		ug/L	210976	1	08/05/2015 20:33	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	210976	1	08/05/2015 20:33	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	210976	1	08/05/2015 20:33	YH
Benzo(a)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 20:33	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	210976	1	08/05/2015 20:33	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	210976	1	08/05/2015 20:33	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	210976	1	08/05/2015 20:33	YH
Surr: 4-Terphenyl-d14	85.4	55.4-136		%REC	210976	1	08/05/2015 20:33	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211023	1	08/05/2015 14:00	JW
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210956	1	08/04/2015 19:05	TA
Arsenic	BRL	0.0500		mg/L	210956	1	08/04/2015 19:05	TA
Barium	0.152	0.0200		mg/L	210956	1	08/04/2015 19:05	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-501S-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 3:20:00 PM
Lab ID:	1507Q56-019	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210956	1	08/04/2015 19:05	TA
Cadmium	BRL	0.0050		mg/L	210956	1	08/04/2015 19:05	TA
Chromium	BRL	0.0100		mg/L	210956	1	08/04/2015 19:05	TA
Copper	BRL	0.0100		mg/L	210956	1	08/04/2015 19:05	TA
Lead	BRL	0.0100		mg/L	210956	1	08/04/2015 19:05	TA
Nickel	BRL	0.0200		mg/L	210956	1	08/04/2015 19:05	TA
Selenium	BRL	0.0200		mg/L	210956	1	08/04/2015 19:05	TA
Thallium	BRL	0.0200		mg/L	210956	1	08/04/2015 19:05	TA
Vanadium	BRL	0.0100		mg/L	210956	1	08/04/2015 19:05	TA
Zinc	0.0276	0.0200		mg/L	210956	1	08/04/2015 19:05	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-315-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 3:28:00 PM
Lab ID:	1507Q56-020	**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	211069	1	08/05/2015 04:01	NP
Benzene	BRL	5.0		ug/L	211069	1	08/05/2015 04:01	NP
Carbon disulfide	BRL	5.0		ug/L	211069	1	08/05/2015 04:01	NP
Ethylbenzene	BRL	5.0		ug/L	211069	1	08/05/2015 04:01	NP
Methylene chloride	BRL	5.0		ug/L	211069	1	08/05/2015 04:01	NP
Toluene	BRL	5.0		ug/L	211069	1	08/05/2015 04:01	NP
Trichloroethene	BRL	5.0		ug/L	211069	1	08/05/2015 04:01	NP
Xylenes, Total	BRL	5.0		ug/L	211069	1	08/05/2015 04:01	NP
Surr: 4-Bromofluorobenzene	78.5	70.6-123		%REC	211069	1	08/05/2015 04:01	NP
Surr: Dibromofluoromethane	107	78.7-124		%REC	211069	1	08/05/2015 04:01	NP
Surr: Toluene-d8	101	81.3-120		%REC	211069	1	08/05/2015 04:01	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211148	1	08/06/2015 12:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	1.2	0.50		ug/L	211051	1	08/06/2015 14:04	YH
Acenaphthylene	BRL	1.0		ug/L	211051	1	08/06/2015 14:04	YH
Acenaphthene	0.54	0.50		ug/L	211051	1	08/06/2015 14:04	YH
Fluorene	BRL	0.10		ug/L	211051	1	08/06/2015 14:04	YH
Phenanthrene	BRL	0.050		ug/L	211051	1	08/06/2015 14:04	YH
Anthracene	BRL	0.050		ug/L	211051	1	08/06/2015 14:04	YH
Fluoranthene	BRL	0.10		ug/L	211051	1	08/06/2015 14:04	YH
Pyrene	0.080	0.050		ug/L	211051	1	08/06/2015 14:04	YH
Benz(a)anthracene	BRL	0.050		ug/L	211051	1	08/06/2015 14:04	YH
Chrysene	BRL	0.050		ug/L	211051	1	08/06/2015 14:04	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	211051	1	08/06/2015 14:04	YH
Benzo(k)fluoranthene	0.055	0.050		ug/L	211051	1	08/06/2015 14:04	YH
Benzo(a)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 14:04	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 14:04	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	211051	1	08/06/2015 14:04	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	211051	1	08/06/2015 14:04	YH
Surr: 4-Terphenyl-d14	75.7	55.4-136		%REC	211051	1	08/06/2015 14:04	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211023	1	08/05/2015 14:02	JW
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210956	1	08/04/2015 19:14	TA
Arsenic	BRL	0.0500		mg/L	210956	1	08/04/2015 19:14	TA
Barium	0.445	0.0200		mg/L	210956	1	08/04/2015 19:14	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-315-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 3:28:00 PM
Lab ID:	1507Q56-020	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210956	1	08/04/2015 19:14	TA
Cadmium	BRL	0.0050		mg/L	210956	1	08/04/2015 19:14	TA
Chromium	BRL	0.0100		mg/L	210956	1	08/04/2015 19:14	TA
Copper	BRL	0.0100		mg/L	210956	1	08/04/2015 19:14	TA
Lead	BRL	0.0100		mg/L	210956	1	08/04/2015 19:14	TA
Nickel	BRL	0.0200		mg/L	210956	1	08/04/2015 19:14	TA
Selenium	BRL	0.0200		mg/L	210956	1	08/04/2015 19:14	TA
Thallium	BRL	0.0200		mg/L	210956	1	08/04/2015 19:14	TA
Vanadium	BRL	0.0100		mg/L	210956	1	08/04/2015 19:14	TA
Zinc	0.0259	0.0200		mg/L	210956	1	08/04/2015 19:14	TA

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-307TZ-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 4:20:00 PM
Lab ID:	1507Q56-021	**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	211099	1	08/05/2015 14:32	NP
Benzene	BRL	5.0		ug/L	211099	1	08/05/2015 14:32	NP
Carbon disulfide	BRL	5.0		ug/L	211099	1	08/05/2015 14:32	NP
Ethylbenzene	BRL	5.0		ug/L	211099	1	08/05/2015 14:32	NP
Methylene chloride	BRL	5.0		ug/L	211099	1	08/05/2015 14:32	NP
Toluene	BRL	5.0		ug/L	211099	1	08/05/2015 14:32	NP
Trichloroethene	BRL	5.0		ug/L	211099	1	08/05/2015 14:32	NP
Xylenes, Total	BRL	5.0		ug/L	211099	1	08/05/2015 14:32	NP
Surr: 4-Bromofluorobenzene	78.3	70.6-123		%REC	211099	1	08/05/2015 14:32	NP
Surr: Dibromofluoromethane	105	78.7-124		%REC	211099	1	08/05/2015 14:32	NP
Surr: Toluene-d8	101	81.3-120		%REC	211099	1	08/05/2015 14:32	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211148	1	08/06/2015 12:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	211051	1	08/06/2015 14:31	YH
Acenaphthylene	BRL	1.0		ug/L	211051	1	08/06/2015 14:31	YH
Acenaphthene	BRL	0.50		ug/L	211051	1	08/06/2015 14:31	YH
Fluorene	BRL	0.10		ug/L	211051	1	08/06/2015 14:31	YH
Phenanthrene	BRL	0.050		ug/L	211051	1	08/06/2015 14:31	YH
Anthracene	BRL	0.050		ug/L	211051	1	08/06/2015 14:31	YH
Fluoranthene	BRL	0.10		ug/L	211051	1	08/06/2015 14:31	YH
Pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 14:31	YH
Benz(a)anthracene	BRL	0.050		ug/L	211051	1	08/06/2015 14:31	YH
Chrysene	BRL	0.050		ug/L	211051	1	08/06/2015 14:31	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	211051	1	08/06/2015 14:31	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	211051	1	08/06/2015 14:31	YH
Benzo(a)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 14:31	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 14:31	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	211051	1	08/06/2015 14:31	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	211051	1	08/06/2015 14:31	YH
Surr: 4-Terphenyl-d14	75.6	55.4-136		%REC	211051	1	08/06/2015 14:31	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211071	1	08/05/2015 14:20	JW
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210959	1	08/04/2015 17:00	IO
Arsenic	BRL	0.0500		mg/L	210959	1	08/04/2015 17:00	IO
Barium	0.258	0.0200		mg/L	210959	1	08/04/2015 17:00	IO

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-307TZ-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 4:20:00 PM
Lab ID:	1507Q56-021	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:00	IO
Cadmium	BRL	0.0050		mg/L	210959	1	08/04/2015 17:00	IO
Chromium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:00	IO
Copper	BRL	0.0100		mg/L	210959	1	08/04/2015 17:00	IO
Lead	BRL	0.0100		mg/L	210959	1	08/04/2015 17:00	IO
Nickel	BRL	0.0200		mg/L	210959	1	08/04/2015 17:00	IO
Selenium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:00	IO
Thallium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:00	IO
Vanadium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:00	IO
Zinc	BRL	0.0200		mg/L	210959	1	08/04/2015 17:00	IO

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-401S-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 5:12:00 PM
Lab ID:	1507Q56-022	**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	211099	1	08/05/2015 14:59	NP
Benzene	BRL	5.0		ug/L	211099	1	08/05/2015 14:59	NP
Carbon disulfide	BRL	5.0		ug/L	211099	1	08/05/2015 14:59	NP
Ethylbenzene	BRL	5.0		ug/L	211099	1	08/05/2015 14:59	NP
Methylene chloride	BRL	5.0		ug/L	211099	1	08/05/2015 14:59	NP
Toluene	BRL	5.0		ug/L	211099	1	08/05/2015 14:59	NP
Trichloroethene	BRL	5.0		ug/L	211099	1	08/05/2015 14:59	NP
Xylenes, Total	BRL	5.0		ug/L	211099	1	08/05/2015 14:59	NP
Surr: 4-Bromofluorobenzene	77.2	70.6-123		%REC	211099	1	08/05/2015 14:59	NP
Surr: Dibromofluoromethane	109	78.7-124		%REC	211099	1	08/05/2015 14:59	NP
Surr: Toluene-d8	101	81.3-120		%REC	211099	1	08/05/2015 14:59	NP
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**			
Cyanide, Total	BRL	0.010		mg/L	211148	1	08/06/2015 12:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D					**(SW3510C)**			
Naphthalene	BRL	0.50		ug/L	211051	1	08/06/2015 14:58	YH
Acenaphthylene	BRL	1.0		ug/L	211051	1	08/06/2015 14:58	YH
Acenaphthene	BRL	0.50		ug/L	211051	1	08/06/2015 14:58	YH
Fluorene	BRL	0.10		ug/L	211051	1	08/06/2015 14:58	YH
Phenanthrene	BRL	0.050		ug/L	211051	1	08/06/2015 14:58	YH
Anthracene	BRL	0.050		ug/L	211051	1	08/06/2015 14:58	YH
Fluoranthene	BRL	0.10		ug/L	211051	1	08/06/2015 14:58	YH
Pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 14:58	YH
Benz(a)anthracene	BRL	0.050		ug/L	211051	1	08/06/2015 14:58	YH
Chrysene	BRL	0.050		ug/L	211051	1	08/06/2015 14:58	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	211051	1	08/06/2015 14:58	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	211051	1	08/06/2015 14:58	YH
Benzo(a)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 14:58	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 14:58	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	211051	1	08/06/2015 14:58	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	211051	1	08/06/2015 14:58	YH
Surr: 4-Terphenyl-d14	82.2	55.4-136		%REC	211051	1	08/06/2015 14:58	YH
Mercury, Total SW7470A					**(SW7470A)**			
Mercury	BRL	0.00020		mg/L	211071	1	08/05/2015 14:08	JW
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210959	1	08/04/2015 17:18	IO
Arsenic	BRL	0.0500		mg/L	210959	1	08/04/2015 17:18	IO
Barium	0.0916	0.0200		mg/L	210959	1	08/04/2015 17:18	IO

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-401S-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 5:12:00 PM
Lab ID:	1507Q56-022	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:18	IO
Cadmium	BRL	0.0050		mg/L	210959	1	08/04/2015 17:18	IO
Chromium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:18	IO
Copper	BRL	0.0100		mg/L	210959	1	08/04/2015 17:18	IO
Lead	BRL	0.0100		mg/L	210959	1	08/04/2015 17:18	IO
Nickel	BRL	0.0200		mg/L	210959	1	08/04/2015 17:18	IO
Selenium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:18	IO
Thallium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:18	IO
Vanadium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:18	IO
Zinc	BRL	0.0200		mg/L	210959	1	08/04/2015 17:18	IO

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-306TZ-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 6:20:00 PM
Lab ID:	1507Q56-023	**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	211099	1	08/06/2015 10:12	NP
Benzene	BRL	5.0		ug/L	211099	1	08/06/2015 10:12	NP
Carbon disulfide	BRL	5.0		ug/L	211099	1	08/06/2015 10:12	NP
Ethylbenzene	BRL	5.0		ug/L	211099	1	08/06/2015 10:12	NP
Methylene chloride	BRL	5.0		ug/L	211099	1	08/06/2015 10:12	NP
Toluene	BRL	5.0		ug/L	211099	1	08/06/2015 10:12	NP
Trichloroethene	BRL	5.0		ug/L	211099	1	08/06/2015 10:12	NP
Xylenes, Total	BRL	5.0		ug/L	211099	1	08/06/2015 10:12	NP
Surr: 4-Bromofluorobenzene	82.8	70.6-123		%REC	211099	1	08/06/2015 10:12	NP
Surr: Dibromofluoromethane	103	78.7-124		%REC	211099	1	08/06/2015 10:12	NP
Surr: Toluene-d8	100	81.3-120		%REC	211099	1	08/06/2015 10:12	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211149	1	08/06/2015 16:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	200	50		ug/L	211051	100	08/07/2015 11:57	YH
Acenaphthylene	BRL	1.0		ug/L	211051	1	08/06/2015 15:25	YH
Acenaphthene	8.9	0.50		ug/L	211051	1	08/06/2015 15:25	YH
Fluorene	0.93	0.10		ug/L	211051	1	08/06/2015 15:25	YH
Phenanthrene	0.45	0.050		ug/L	211051	1	08/06/2015 15:25	YH
Anthracene	0.13	0.050		ug/L	211051	1	08/06/2015 15:25	YH
Fluoranthene	BRL	0.10		ug/L	211051	1	08/06/2015 15:25	YH
Pyrene	0.056	0.050		ug/L	211051	1	08/06/2015 15:25	YH
Benz(a)anthracene	BRL	0.050		ug/L	211051	1	08/06/2015 15:25	YH
Chrysene	BRL	0.050		ug/L	211051	1	08/06/2015 15:25	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	211051	1	08/06/2015 15:25	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	211051	1	08/06/2015 15:25	YH
Benzo(a)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 15:25	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 15:25	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	211051	1	08/06/2015 15:25	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	211051	1	08/06/2015 15:25	YH
Surr: 4-Terphenyl-d14	80	55.4-136		%REC	211051	1	08/06/2015 15:25	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211071	1	08/05/2015 14:22	JW
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210959	1	08/04/2015 17:28	IO
Arsenic	BRL	0.0500		mg/L	210959	1	08/04/2015 17:28	IO
Barium	0.771	0.0200		mg/L	210959	1	08/04/2015 17:28	IO

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-306TZ-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 6:20:00 PM
Lab ID:	1507Q56-023	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:28	IO
Cadmium	BRL	0.0050		mg/L	210959	1	08/04/2015 17:28	IO
Chromium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:28	IO
Copper	0.0142	0.0100		mg/L	210959	1	08/04/2015 17:28	IO
Lead	BRL	0.0100		mg/L	210959	1	08/04/2015 17:28	IO
Nickel	BRL	0.0200		mg/L	210959	1	08/04/2015 17:28	IO
Selenium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:28	IO
Thallium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:28	IO
Vanadium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:28	IO
Zinc	BRL	0.0200		mg/L	210959	1	08/04/2015 17:28	IO

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-601-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 6:30:00 PM
Lab ID:	1507Q56-024	**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	211099	50	08/05/2015 16:53	NP
Benzene	20000	2500		ug/L	211099	500	08/06/2015 12:06	NP
Carbon disulfide	BRL	250		ug/L	211099	50	08/05/2015 16:53	NP
Ethylbenzene	1400	250		ug/L	211099	50	08/05/2015 16:53	NP
Methylene chloride	BRL	250		ug/L	211099	50	08/05/2015 16:53	NP
Toluene	12000	2500		ug/L	211099	500	08/06/2015 12:06	NP
Trichloroethene	BRL	250		ug/L	211099	50	08/05/2015 16:53	NP
Xylenes, Total	3500	250		ug/L	211099	50	08/05/2015 16:53	NP
Surr: 4-Bromofluorobenzene	81	70.6-123		%REC	211099	500	08/06/2015 12:06	NP
Surr: 4-Bromofluorobenzene	83.9	70.6-123		%REC	211099	50	08/05/2015 16:53	NP
Surr: Dibromofluoromethane	100	78.7-124		%REC	211099	50	08/05/2015 16:53	NP
Surr: Dibromofluoromethane	103	78.7-124		%REC	211099	500	08/06/2015 12:06	NP
Surr: Toluene-d8	97.4	81.3-120		%REC	211099	50	08/05/2015 16:53	NP
Surr: Toluene-d8	99.5	81.3-120		%REC	211099	500	08/06/2015 12:06	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	0.022	0.010		mg/L	211149	1	08/06/2015 16:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	6600	500		ug/L	211051	1000	08/07/2015 00:10	YH
Acenaphthylene	5.0	1.0		ug/L	211051	1	08/06/2015 15:52	YH
Acenaphthene	1.0	0.50		ug/L	211051	1	08/06/2015 15:52	YH
Fluorene	3.0	0.10		ug/L	211051	1	08/06/2015 15:52	YH
Phenanthrene	12	5.0		ug/L	211051	100	08/06/2015 22:15	YH
Anthracene	3.7	0.050		ug/L	211051	1	08/06/2015 15:52	YH
Fluoranthene	0.35	0.10		ug/L	211051	1	08/06/2015 15:52	YH
Pyrene	0.45	0.050		ug/L	211051	1	08/06/2015 15:52	YH
Benz(a)anthracene	BRL	0.050		ug/L	211051	1	08/06/2015 15:52	YH
Chrysene	BRL	0.050		ug/L	211051	1	08/06/2015 15:52	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	211051	1	08/06/2015 15:52	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	211051	1	08/06/2015 15:52	YH
Benzo(a)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 15:52	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 15:52	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	211051	1	08/06/2015 15:52	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	211051	1	08/06/2015 15:52	YH
Surr: 4-Terphenyl-d14	79.7	55.4-136		%REC	211051	1	08/06/2015 15:52	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211071	1	08/05/2015 14:23	JW
METALS, TOTAL SW6010C				**(SW3010A)**				

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-601-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015 6:30:00 PM
Lab ID:	1507Q56-024	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210959	1	08/04/2015 17:32	IO
Arsenic	BRL	0.0500		mg/L	210959	1	08/04/2015 17:32	IO
Barium	0.213	0.0200		mg/L	210959	1	08/04/2015 17:32	IO
Beryllium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:32	IO
Cadmium	BRL	0.0050		mg/L	210959	1	08/04/2015 17:32	IO
Chromium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:32	IO
Copper	0.0175	0.0100		mg/L	210959	1	08/04/2015 17:32	IO
Lead	BRL	0.0100		mg/L	210959	1	08/04/2015 17:32	IO
Nickel	BRL	0.0200		mg/L	210959	1	08/04/2015 17:32	IO
Selenium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:32	IO
Thallium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:32	IO
Vanadium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:32	IO
Zinc	0.0520	0.0200		mg/L	210959	1	08/04/2015 17:32	IO

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-307BR-20150731-01
Project Name:	AGL Augusta	**Collection Date:**	7/31/2015 8:30:00 AM
Lab ID:	1507Q56-025	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	5000		ug/L	211099	100	08/06/2015 12:51	NP
Benzene	5300	500		ug/L	211099	100	08/06/2015 12:51	NP
Carbon disulfide	BRL	500		ug/L	211099	100	08/06/2015 12:51	NP
Ethylbenzene	BRL	500		ug/L	211099	100	08/06/2015 12:51	NP
Methylene chloride	BRL	500		ug/L	211099	100	08/06/2015 12:51	NP
Toluene	BRL	500		ug/L	211099	100	08/06/2015 12:51	NP
Trichloroethene	BRL	500		ug/L	211099	100	08/06/2015 12:51	NP
Xylenes, Total	BRL	500		ug/L	211099	100	08/06/2015 12:51	NP
Surr: 4-Bromofluorobenzene	80.1	70.6-123		%REC	211099	100	08/06/2015 12:51	NP
Surr: Dibromofluoromethane	103	78.7-124		%REC	211099	100	08/06/2015 12:51	NP
Surr: Toluene-d8	98.6	81.3-120		%REC	211099	100	08/06/2015 12:51	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211149	1	08/06/2015 16:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	350	50		ug/L	211051	100	08/06/2015 22:44	YH
Acenaphthylene	BRL	1.0		ug/L	211051	1	08/06/2015 16:20	YH
Acenaphthene	48	5.0		ug/L	211051	100	08/06/2015 22:44	YH
Fluorene	7.6	5.0		ug/L	211051	100	08/06/2015 22:44	YH
Phenanthrene	9.7	0.050		ug/L	211051	1	08/06/2015 16:20	YH
Anthracene	1.6	0.050		ug/L	211051	1	08/06/2015 16:20	YH
Fluoranthene	0.87	0.10		ug/L	211051	1	08/06/2015 16:20	YH
Pyrene	1.1	0.050		ug/L	211051	1	08/06/2015 16:20	YH
Benz(a)anthracene	0.11	0.050		ug/L	211051	1	08/06/2015 16:20	YH
Chrysene	0.060	0.050		ug/L	211051	1	08/06/2015 16:20	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	211051	1	08/06/2015 16:20	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	211051	1	08/06/2015 16:20	YH
Benzo(a)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 16:20	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 16:20	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	211051	1	08/06/2015 16:20	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	211051	1	08/06/2015 16:20	YH
Surr: 4-Terphenyl-d14	70.5	55.4-136		%REC	211051	1	08/06/2015 16:20	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211071	1	08/05/2015 14:25	JW
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210959	1	08/04/2015 17:36	IO
Arsenic	BRL	0.0500		mg/L	210959	1	08/04/2015 17:36	IO
Barium	0.0707	0.0200		mg/L	210959	1	08/04/2015 17:36	IO

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-307BR-20150731-01
Project Name:	AGL Augusta	**Collection Date:**	7/31/2015 8:30:00 AM
Lab ID:	1507Q56-025	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:36	IO
Cadmium	BRL	0.0050		mg/L	210959	1	08/04/2015 17:36	IO
Chromium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:36	IO
Copper	BRL	0.0100		mg/L	210959	1	08/04/2015 17:36	IO
Lead	BRL	0.0100		mg/L	210959	1	08/04/2015 17:36	IO
Nickel	BRL	0.0200		mg/L	210959	1	08/04/2015 17:36	IO
Selenium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:36	IO
Thallium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:36	IO
Vanadium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:36	IO
Zinc	BRL	0.0200		mg/L	210959	1	08/04/2015 17:36	IO

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-308BR-20150731-01
Project Name:	AGL Augusta	**Collection Date:**	7/31/2015 8:37:00 AM
Lab ID:	1507Q56-026	**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	211099	1	08/06/2015 16:52	NP
Benzene	880	50		ug/L	211099	10	08/06/2015 17:16	NP
Carbon disulfide	BRL	5.0		ug/L	211099	1	08/06/2015 16:52	NP
Ethylbenzene	350	50		ug/L	211099	10	08/06/2015 17:16	NP
Methylene chloride	BRL	5.0		ug/L	211099	1	08/06/2015 16:52	NP
Toluene	180	50		ug/L	211099	10	08/06/2015 17:16	NP
Trichloroethene	BRL	5.0		ug/L	211099	1	08/06/2015 16:52	NP
Xylenes, Total	440	5.0		ug/L	211099	1	08/06/2015 16:52	NP
Surr: 4-Bromofluorobenzene	80.5	70.6-123		%REC	211099	10	08/06/2015 17:16	NP
Surr: 4-Bromofluorobenzene	87.7	70.6-123		%REC	211099	1	08/06/2015 16:52	NP
Surr: Dibromofluoromethane	97.1	78.7-124		%REC	211099	1	08/06/2015 16:52	NP
Surr: Dibromofluoromethane	101	78.7-124		%REC	211099	10	08/06/2015 17:16	NP
Surr: Toluene-d8	92.8	81.3-120		%REC	211099	1	08/06/2015 16:52	NP
Surr: Toluene-d8	95.7	81.3-120		%REC	211099	10	08/06/2015 17:16	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211149	1	08/06/2015 16:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	1800	500		ug/L	211051	1000	08/06/2015 21:09	YH
Acenaphthylene	43	5.0		ug/L	211051	100	08/06/2015 23:11	YH
Acenaphthene	43	5.0		ug/L	211051	100	08/06/2015 23:11	YH
Fluorene	16	10		ug/L	211051	100	08/06/2015 23:11	YH
Phenanthrene	30	5.0		ug/L	211051	100	08/06/2015 23:11	YH
Anthracene	8.1	0.050		ug/L	211051	1	08/06/2015 16:47	YH
Fluoranthene	10	10		ug/L	211051	100	08/06/2015 23:11	YH
Pyrene	15	5.0		ug/L	211051	100	08/06/2015 23:11	YH
Benz(a)anthracene	5.2	5.0		ug/L	211051	100	08/06/2015 23:11	YH
Chrysene	8.4	0.050		ug/L	211051	1	08/06/2015 16:47	YH
Benzo(b)fluoranthene	6.2	5.0		ug/L	211051	100	08/06/2015 23:11	YH
Benzo(k)fluoranthene	2.9	0.050		ug/L	211051	1	08/06/2015 16:47	YH
Benzo(a)pyrene	BRL	5.0		ug/L	211051	100	08/06/2015 23:11	YH
Indeno(1,2,3-cd)pyrene	4.5	0.050		ug/L	211051	1	08/06/2015 16:47	YH
Dibenz(a,h)anthracene	1.0	0.10		ug/L	211051	1	08/06/2015 16:47	YH
Benzo(g,h,i)perylene	5.2	0.10		ug/L	211051	1	08/06/2015 16:47	YH
Surr: 4-Terphenyl-d14	78.1	55.4-136		%REC	211051	1	08/06/2015 16:47	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211071	1	08/05/2015 14:27	JW
METALS, TOTAL SW6010C				**(SW3010A)**				

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	MW-308BR-20150731-01
Project Name:	AGL Augusta	**Collection Date:**	7/31/2015 8:37:00 AM
Lab ID:	1507Q56-026	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210959	1	08/04/2015 17:40	IO
Arsenic	BRL	0.0500		mg/L	210959	1	08/04/2015 17:40	IO
Barium	0.618	0.0200		mg/L	210959	1	08/04/2015 17:40	IO
Beryllium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:40	IO
Cadmium	BRL	0.0050		mg/L	210959	1	08/04/2015 17:40	IO
Chromium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:40	IO
Copper	BRL	0.0100		mg/L	210959	1	08/04/2015 17:40	IO
Lead	BRL	0.0100		mg/L	210959	1	08/04/2015 17:40	IO
Nickel	BRL	0.0200		mg/L	210959	1	08/04/2015 17:40	IO
Selenium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:40	IO
Thallium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:40	IO
Vanadium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:40	IO
Zinc	0.0492	0.0200		mg/L	210959	1	08/04/2015 17:40	IO

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	DUP-01-20150729-01
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015
Lab ID:	1507Q56-027	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Acetone	BRL	5000		ug/L	211099	100	08/05/2015 16:30	NP
Benzene	6000	500		ug/L	211099	100	08/05/2015 16:30	NP
Carbon disulfide	BRL	500		ug/L	211099	100	08/05/2015 16:30	NP
Ethylbenzene	1500	500		ug/L	211099	100	08/05/2015 16:30	NP
Methylene chloride	BRL	500		ug/L	211099	100	08/05/2015 16:30	NP
Toluene	640	500		ug/L	211099	100	08/05/2015 16:30	NP
Trichloroethene	BRL	500		ug/L	211099	100	08/05/2015 16:30	NP
Xylenes, Total	950	500		ug/L	211099	100	08/05/2015 16:30	NP
Surr: 4-Bromofluorobenzene	82.7	70.6-123		%REC	211099	100	08/05/2015 16:30	NP
Surr: Dibromofluoromethane	103	78.7-124		%REC	211099	100	08/05/2015 16:30	NP
Surr: Toluene-d8	97.2	81.3-120		%REC	211099	100	08/05/2015 16:30	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211149	1	08/06/2015 16:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	5200	500		ug/L	211051	1000	08/07/2015 11:30	YH
Acenaphthylene	2.3	1.0		ug/L	211051	1	08/06/2015 17:14	YH
Acenaphthene	76	50		ug/L	211051	100	08/07/2015 11:03	YH
Fluorene	16	10		ug/L	211051	100	08/07/2015 11:03	YH
Phenanthrene	12	5.0		ug/L	211051	100	08/07/2015 11:03	YH
Anthracene	1.4	0.050		ug/L	211051	1	08/06/2015 17:14	YH
Fluoranthene	0.26	0.10		ug/L	211051	1	08/06/2015 17:14	YH
Pyrene	0.24	0.050		ug/L	211051	1	08/06/2015 17:14	YH
Benz(a)anthracene	BRL	0.050		ug/L	211051	1	08/06/2015 17:14	YH
Chrysene	BRL	0.050		ug/L	211051	1	08/06/2015 17:14	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	211051	1	08/06/2015 17:14	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	211051	1	08/06/2015 17:14	YH
Benzo(a)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 17:14	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 17:14	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	211051	1	08/06/2015 17:14	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	211051	1	08/06/2015 17:14	YH
Surr: 4-Terphenyl-d14	78.5	55.4-136		%REC	211051	1	08/06/2015 17:14	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211071	1	08/05/2015 14:29	JW
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210959	1	08/04/2015 17:43	IO
Arsenic	BRL	0.0500		mg/L	210959	1	08/04/2015 17:43	IO
Barium	0.213	0.0200		mg/L	210959	1	08/04/2015 17:43	IO

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	DUP-01-20150729-01
Project Name:	AGL Augusta	**Collection Date:**	7/29/2015
Lab ID:	1507Q56-027	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:43	IO
Cadmium	BRL	0.0050		mg/L	210959	1	08/04/2015 17:43	IO
Chromium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:43	IO
Copper	BRL	0.0100		mg/L	210959	1	08/04/2015 17:43	IO
Lead	BRL	0.0100		mg/L	210959	1	08/04/2015 17:43	IO
Nickel	BRL	0.0200		mg/L	210959	1	08/04/2015 17:43	IO
Selenium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:43	IO
Thallium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:43	IO
Vanadium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:43	IO
Zinc	BRL	0.0200		mg/L	210959	1	08/04/2015 17:43	IO

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	DUP-02-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015
Lab ID:	1507Q56-028	**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	211099	1	08/06/2015 10:35	NP
Benzene	BRL	5.0		ug/L	211099	1	08/06/2015 10:35	NP
Carbon disulfide	BRL	5.0		ug/L	211099	1	08/06/2015 10:35	NP
Ethylbenzene	BRL	5.0		ug/L	211099	1	08/06/2015 10:35	NP
Methylene chloride	BRL	5.0		ug/L	211099	1	08/06/2015 10:35	NP
Toluene	BRL	5.0		ug/L	211099	1	08/06/2015 10:35	NP
Trichloroethene	BRL	5.0		ug/L	211099	1	08/06/2015 10:35	NP
Xylenes, Total	BRL	5.0		ug/L	211099	1	08/06/2015 10:35	NP
Surr: 4-Bromofluorobenzene	79.5	70.6-123		%REC	211099	1	08/06/2015 10:35	NP
Surr: Dibromofluoromethane	101	78.7-124		%REC	211099	1	08/06/2015 10:35	NP
Surr: Toluene-d8	100	81.3-120		%REC	211099	1	08/06/2015 10:35	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211149	1	08/06/2015 16:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	BRL	0.50		ug/L	211051	1	08/06/2015 17:41	YH
Acenaphthylene	BRL	1.0		ug/L	211051	1	08/06/2015 17:41	YH
Acenaphthene	BRL	0.50		ug/L	211051	1	08/06/2015 17:41	YH
Fluorene	BRL	0.10		ug/L	211051	1	08/06/2015 17:41	YH
Phenanthrene	BRL	0.050		ug/L	211051	1	08/06/2015 17:41	YH
Anthracene	BRL	0.050		ug/L	211051	1	08/06/2015 17:41	YH
Fluoranthene	BRL	0.10		ug/L	211051	1	08/06/2015 17:41	YH
Pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 17:41	YH
Benz(a)anthracene	BRL	0.050		ug/L	211051	1	08/06/2015 17:41	YH
Chrysene	BRL	0.050		ug/L	211051	1	08/06/2015 17:41	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	211051	1	08/06/2015 17:41	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	211051	1	08/06/2015 17:41	YH
Benzo(a)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 17:41	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 17:41	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	211051	1	08/06/2015 17:41	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	211051	1	08/06/2015 17:41	YH
Surr: 4-Terphenyl-d14	81.1	55.4-136		%REC	211051	1	08/06/2015 17:41	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211071	1	08/05/2015 14:31	JW
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210959	1	08/04/2015 17:47	IO
Arsenic	BRL	0.0500		mg/L	210959	1	08/04/2015 17:47	IO
Barium	0.518	0.0200		mg/L	210959	1	08/04/2015 17:47	IO

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	DUP-02-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015
Lab ID:	1507Q56-028	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					**(SW3010A)**			
Beryllium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:47	IO
Cadmium	BRL	0.0050		mg/L	210959	1	08/04/2015 17:47	IO
Chromium	0.0163	0.0100		mg/L	210959	1	08/04/2015 17:47	IO
Copper	BRL	0.0100		mg/L	210959	1	08/04/2015 17:47	IO
Lead	BRL	0.0100		mg/L	210959	1	08/04/2015 17:47	IO
Nickel	BRL	0.0200		mg/L	210959	1	08/04/2015 17:47	IO
Selenium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:47	IO
Thallium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:47	IO
Vanadium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:47	IO
Zinc	BRL	0.0200		mg/L	210959	1	08/04/2015 17:47	IO

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	DUP-03-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015
Lab ID:	1507Q56-029	**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	211099	1	08/06/2015 10:57	NP
Benzene	BRL	5.0		ug/L	211099	1	08/06/2015 10:57	NP
Carbon disulfide	BRL	5.0		ug/L	211099	1	08/06/2015 10:57	NP
Ethylbenzene	BRL	5.0		ug/L	211099	1	08/06/2015 10:57	NP
Methylene chloride	BRL	5.0		ug/L	211099	1	08/06/2015 10:57	NP
Toluene	BRL	5.0		ug/L	211099	1	08/06/2015 10:57	NP
Trichloroethene	BRL	5.0		ug/L	211099	1	08/06/2015 10:57	NP
Xylenes, Total	BRL	5.0		ug/L	211099	1	08/06/2015 10:57	NP
Surr: 4-Bromofluorobenzene	81.9	70.6-123		%REC	211099	1	08/06/2015 10:57	NP
Surr: Dibromofluoromethane	104	78.7-124		%REC	211099	1	08/06/2015 10:57	NP
Surr: Toluene-d8	99	81.3-120		%REC	211099	1	08/06/2015 10:57	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211149	1	08/06/2015 16:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	210	50		ug/L	211051	100	08/06/2015 18:57	YH
Acenaphthylene	BRL	1.0		ug/L	211051	1	08/06/2015 18:08	YH
Acenaphthene	BRL	50		ug/L	211051	100	08/06/2015 18:57	YH
Fluorene	1.2	0.10		ug/L	211051	1	08/06/2015 18:08	YH
Phenanthrene	0.57	0.050		ug/L	211051	1	08/06/2015 18:08	YH
Anthracene	0.15	0.050		ug/L	211051	1	08/06/2015 18:08	YH
Fluoranthene	BRL	0.10		ug/L	211051	1	08/06/2015 18:08	YH
Pyrene	0.068	0.050		ug/L	211051	1	08/06/2015 18:08	YH
Benz(a)anthracene	BRL	0.050		ug/L	211051	1	08/06/2015 18:08	YH
Chrysene	BRL	0.050		ug/L	211051	1	08/06/2015 18:08	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	211051	1	08/06/2015 18:08	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	211051	1	08/06/2015 18:08	YH
Benzo(a)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 18:08	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 18:08	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	211051	1	08/06/2015 18:08	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	211051	1	08/06/2015 18:08	YH
Surr: 4-Terphenyl-d14	81.3	55.4-136		%REC	211051	1	08/06/2015 18:08	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211071	1	08/05/2015 14:33	JW
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210959	1	08/04/2015 17:51	IO
Arsenic	BRL	0.0500		mg/L	210959	1	08/04/2015 17:51	IO
Barium	0.783	0.0200		mg/L	210959	1	08/04/2015 17:51	IO

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	DUP-03-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015
Lab ID:	1507Q56-029	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:51	IO
Cadmium	BRL	0.0050		mg/L	210959	1	08/04/2015 17:51	IO
Chromium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:51	IO
Copper	BRL	0.0100		mg/L	210959	1	08/04/2015 17:51	IO
Lead	BRL	0.0100		mg/L	210959	1	08/04/2015 17:51	IO
Nickel	BRL	0.0200		mg/L	210959	1	08/04/2015 17:51	IO
Selenium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:51	IO
Thallium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:51	IO
Vanadium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:51	IO
Zinc	BRL	0.0200		mg/L	210959	1	08/04/2015 17:51	IO

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	DUP-04-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015
Lab ID:	1507Q56-030	**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	211099	50	08/05/2015 17:43	NP
Benzene	21000	2500		ug/L	211099	500	08/06/2015 12:29	NP
Carbon disulfide	BRL	250		ug/L	211099	50	08/05/2015 17:43	NP
Ethylbenzene	1500	250		ug/L	211099	50	08/05/2015 17:43	NP
Methylene chloride	BRL	250		ug/L	211099	50	08/05/2015 17:43	NP
Toluene	14000	2500		ug/L	211099	500	08/06/2015 12:29	NP
Trichloroethene	BRL	250		ug/L	211099	50	08/05/2015 17:43	NP
Xylenes, Total	3400	250		ug/L	211099	50	08/05/2015 17:43	NP
Surr: 4-Bromofluorobenzene	81.1	70.6-123		%REC	211099	500	08/06/2015 12:29	NP
Surr: 4-Bromofluorobenzene	85	70.6-123		%REC	211099	50	08/05/2015 17:43	NP
Surr: Dibromofluoromethane	100	78.7-124		%REC	211099	50	08/05/2015 17:43	NP
Surr: Dibromofluoromethane	101	78.7-124		%REC	211099	500	08/06/2015 12:29	NP
Surr: Toluene-d8	97.8	81.3-120		%REC	211099	50	08/05/2015 17:43	NP
Surr: Toluene-d8	98.2	81.3-120		%REC	211099	500	08/06/2015 12:29	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	0.019	0.010		mg/L	211149	1	08/06/2015 16:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	4300	500		ug/L	211051	1000	08/06/2015 22:26	YH
Acenaphthylene	BRL	100		ug/L	211051	100	08/06/2015 19:23	YH
Acenaphthene	5.6	0.50		ug/L	211051	1	08/06/2015 18:34	YH
Fluorene	16	10		ug/L	211051	100	08/06/2015 19:23	YH
Phenanthrene	9.4	0.050		ug/L	211051	1	08/06/2015 18:34	YH
Anthracene	2.8	0.050		ug/L	211051	1	08/06/2015 18:34	YH
Fluoranthene	0.27	0.10		ug/L	211051	1	08/06/2015 18:34	YH
Pyrene	0.31	0.050		ug/L	211051	1	08/06/2015 18:34	YH
Benz(a)anthracene	0.14	0.050		ug/L	211051	1	08/06/2015 18:34	YH
Chrysene	BRL	0.050		ug/L	211051	1	08/06/2015 18:34	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	211051	1	08/06/2015 18:34	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	211051	1	08/06/2015 18:34	YH
Benzo(a)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 18:34	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 18:34	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	211051	1	08/06/2015 18:34	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	211051	1	08/06/2015 18:34	YH
Surr: 4-Terphenyl-d14	37.9	55.4-136	S	%REC	211051	1	08/06/2015 18:34	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211071	1	08/05/2015 14:39	JW
METALS, TOTAL SW6010C				**(SW3010A)**				

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	DUP-04-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015
Lab ID:	1507Q56-030	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					**(SW3010A)**			
Antimony	BRL	0.0200		mg/L	210959	1	08/04/2015 17:54	IO
Arsenic	BRL	0.0500		mg/L	210959	1	08/04/2015 17:54	IO
Barium	0.215	0.0200		mg/L	210959	1	08/04/2015 17:54	IO
Beryllium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:54	IO
Cadmium	BRL	0.0050		mg/L	210959	1	08/04/2015 17:54	IO
Chromium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:54	IO
Copper	BRL	0.0100		mg/L	210959	1	08/04/2015 17:54	IO
Lead	BRL	0.0100		mg/L	210959	1	08/04/2015 17:54	IO
Nickel	BRL	0.0200		mg/L	210959	1	08/04/2015 17:54	IO
Selenium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:54	IO
Thallium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:54	IO
Vanadium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:54	IO
Zinc	0.0339	0.0200		mg/L	210959	1	08/04/2015 17:54	IO

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	DUP-05-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015
Lab ID:	1507Q56-031	**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	211099	1	08/06/2015 11:20	NP
Benzene	BRL	5.0		ug/L	211099	1	08/06/2015 11:20	NP
Carbon disulfide	BRL	5.0		ug/L	211099	1	08/06/2015 11:20	NP
Ethylbenzene	BRL	5.0		ug/L	211099	1	08/06/2015 11:20	NP
Methylene chloride	BRL	5.0		ug/L	211099	1	08/06/2015 11:20	NP
Toluene	BRL	5.0		ug/L	211099	1	08/06/2015 11:20	NP
Trichloroethene	BRL	5.0		ug/L	211099	1	08/06/2015 11:20	NP
Xylenes, Total	BRL	5.0		ug/L	211099	1	08/06/2015 11:20	NP
Surr: 4-Bromofluorobenzene	77.9	70.6-123		%REC	211099	1	08/06/2015 11:20	NP
Surr: Dibromofluoromethane	103	78.7-124		%REC	211099	1	08/06/2015 11:20	NP
Surr: Toluene-d8	101	81.3-120		%REC	211099	1	08/06/2015 11:20	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211149	1	08/06/2015 16:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	21	10		ug/L	211051	100	08/06/2015 19:49	YH
Acenaphthylene	BRL	1.0		ug/L	211051	1	08/06/2015 19:01	YH
Acenaphthene	BRL	0.50		ug/L	211051	1	08/06/2015 19:01	YH
Fluorene	BRL	0.10		ug/L	211051	1	08/06/2015 19:01	YH
Phenanthrene	BRL	0.050		ug/L	211051	1	08/06/2015 19:01	YH
Anthracene	BRL	0.050		ug/L	211051	1	08/06/2015 19:01	YH
Fluoranthene	BRL	0.10		ug/L	211051	1	08/06/2015 19:01	YH
Pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 19:01	YH
Benz(a)anthracene	BRL	0.050		ug/L	211051	1	08/06/2015 19:01	YH
Chrysene	BRL	0.050		ug/L	211051	1	08/06/2015 19:01	YH
Benzo(b)fluoranthene	BRL	0.10		ug/L	211051	1	08/06/2015 19:01	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	211051	1	08/06/2015 19:01	YH
Benzo(a)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 19:01	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 19:01	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	211051	1	08/06/2015 19:01	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	211051	1	08/06/2015 19:01	YH
Surr: 4-Terphenyl-d14	81.9	55.4-136		%REC	211051	1	08/06/2015 19:01	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211071	1	08/05/2015 14:41	JW
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210959	1	08/04/2015 17:58	IO
Arsenic	BRL	0.0500		mg/L	210959	1	08/04/2015 17:58	IO
Barium	0.0970	0.0200		mg/L	210959	1	08/04/2015 17:58	IO

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	DUP-05-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015
Lab ID:	1507Q56-031	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:58	IO
Cadmium	BRL	0.0050		mg/L	210959	1	08/04/2015 17:58	IO
Chromium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:58	IO
Copper	BRL	0.0100		mg/L	210959	1	08/04/2015 17:58	IO
Lead	BRL	0.0100		mg/L	210959	1	08/04/2015 17:58	IO
Nickel	BRL	0.0200		mg/L	210959	1	08/04/2015 17:58	IO
Selenium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:58	IO
Thallium	BRL	0.0200		mg/L	210959	1	08/04/2015 17:58	IO
Vanadium	BRL	0.0100		mg/L	210959	1	08/04/2015 17:58	IO
Zinc	BRL	0.0200		mg/L	210959	1	08/04/2015 17:58	IO

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	DUP-06-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015
Lab ID:	1507Q56-032	**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	211099	1	08/06/2015 11:43	NP
Benzene	BRL	5.0		ug/L	211099	1	08/06/2015 11:43	NP
Carbon disulfide	BRL	5.0		ug/L	211099	1	08/06/2015 11:43	NP
Ethylbenzene	BRL	5.0		ug/L	211099	1	08/06/2015 11:43	NP
Methylene chloride	BRL	5.0		ug/L	211099	1	08/06/2015 11:43	NP
Toluene	BRL	5.0		ug/L	211099	1	08/06/2015 11:43	NP
Trichloroethene	BRL	5.0		ug/L	211099	1	08/06/2015 11:43	NP
Xylenes, Total	BRL	5.0		ug/L	211099	1	08/06/2015 11:43	NP
Surr: 4-Bromofluorobenzene	78.7	70.6-123		%REC	211099	1	08/06/2015 11:43	NP
Surr: Dibromofluoromethane	102	78.7-124		%REC	211099	1	08/06/2015 11:43	NP
Surr: Toluene-d8	99.8	81.3-120		%REC	211099	1	08/06/2015 11:43	NP
Total Cyanide (SM4500 CN-C, E)				**(SM4500-CN-E)**				
Cyanide, Total	BRL	0.010		mg/L	211149	1	08/06/2015 16:00	PF
SIM Polynuclear Aromatic Hydrocarbons SW8270D				**(SW3510C)**				
Naphthalene	2.0	0.50		ug/L	211051	1	08/06/2015 19:29	YH
Acenaphthylene	BRL	1.0		ug/L	211051	1	08/06/2015 19:29	YH
Acenaphthene	0.62	0.50		ug/L	211051	1	08/06/2015 19:29	YH
Fluorene	BRL	0.10		ug/L	211051	1	08/06/2015 19:29	YH
Phenanthrene	BRL	0.050		ug/L	211051	1	08/06/2015 19:29	YH
Anthracene	BRL	0.050		ug/L	211051	1	08/06/2015 19:29	YH
Fluoranthene	BRL	0.10		ug/L	211051	1	08/06/2015 19:29	YH
Pyrene	0.081	0.050		ug/L	211051	1	08/06/2015 19:29	YH
Benz(a)anthracene	BRL	0.050		ug/L	211051	1	08/06/2015 19:29	YH
Chrysene	BRL	0.050		ug/L	211051	1	08/06/2015 19:29	YH
Benzo(b)fluoranthene	0.10	0.10		ug/L	211051	1	08/06/2015 19:29	YH
Benzo(k)fluoranthene	BRL	0.050		ug/L	211051	1	08/06/2015 19:29	YH
Benzo(a)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 19:29	YH
Indeno(1,2,3-cd)pyrene	BRL	0.050		ug/L	211051	1	08/06/2015 19:29	YH
Dibenz(a,h)anthracene	BRL	0.10		ug/L	211051	1	08/06/2015 19:29	YH
Benzo(g,h,i)perylene	BRL	0.10		ug/L	211051	1	08/06/2015 19:29	YH
Surr: 4-Terphenyl-d14	82.8	55.4-136		%REC	211051	1	08/06/2015 19:29	YH
Mercury, Total SW7470A				**(SW7470A)**				
Mercury	BRL	0.00020		mg/L	211071	1	08/05/2015 14:43	JW
METALS, TOTAL SW6010C				**(SW3010A)**				
Antimony	BRL	0.0200		mg/L	210959	1	08/04/2015 18:02	IO
Arsenic	BRL	0.0500		mg/L	210959	1	08/04/2015 18:02	IO
Barium	0.437	0.0200		mg/L	210959	1	08/04/2015 18:02	IO

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:** 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	DUP-06-20150730-01
Project Name:	AGL Augusta	**Collection Date:**	7/30/2015
Lab ID:	1507Q56-032	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Beryllium	BRL	0.0100		mg/L	210959	1	08/04/2015 18:02	IO
Cadmium	BRL	0.0050		mg/L	210959	1	08/04/2015 18:02	IO
Chromium	BRL	0.0100		mg/L	210959	1	08/04/2015 18:02	IO
Copper	BRL	0.0100		mg/L	210959	1	08/04/2015 18:02	IO
Lead	BRL	0.0100		mg/L	210959	1	08/04/2015 18:02	IO
Nickel	BRL	0.0200		mg/L	210959	1	08/04/2015 18:02	IO
Selenium	BRL	0.0200		mg/L	210959	1	08/04/2015 18:02	IO
Thallium	BRL	0.0200		mg/L	210959	1	08/04/2015 18:02	IO
Vanadium	BRL	0.0100		mg/L	210959	1	08/04/2015 18:02	IO
Zinc	BRL	0.0200		mg/L	210959	1	08/04/2015 18:02	IO

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: 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	TB-03-20150731-01
Project Name:	AGL Augusta	**Collection Date:**	7/31/2015
Lab ID:	1507Q56-033	**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	211099	1	08/05/2015 13:46	NP
Benzene	BRL	5.0		ug/L	211099	1	08/05/2015 13:46	NP
Carbon disulfide	BRL	5.0		ug/L	211099	1	08/05/2015 13:46	NP
Ethylbenzene	BRL	5.0		ug/L	211099	1	08/05/2015 13:46	NP
Methylene chloride	BRL	5.0		ug/L	211099	1	08/05/2015 13:46	NP
Toluene	BRL	5.0		ug/L	211099	1	08/05/2015 13:46	NP
Trichloroethene	BRL	5.0		ug/L	211099	1	08/05/2015 13:46	NP
Xylenes, Total	BRL	5.0		ug/L	211099	1	08/05/2015 13:46	NP
Surr: 4-Bromofluorobenzene	75.2	70.6-123		%REC	211099	1	08/05/2015 13:46	NP
Surr: Dibromofluoromethane	100	78.7-124		%REC	211099	1	08/05/2015 13:46	NP
Surr: Toluene-d8	94.9	81.3-120		%REC	211099	1	08/05/2015 13:46	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: 11-Aug-15

Client:	ERM-Southeast	**Client Sample ID:**	TB-04-20150731-01
Project Name:	AGL Augusta	**Collection Date:**	7/31/2015
Lab ID:	1507Q56-034	**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	211099	1	08/05/2015 14:09	NP
Benzene	BRL	5.0		ug/L	211099	1	08/05/2015 14:09	NP
Carbon disulfide	BRL	5.0		ug/L	211099	1	08/05/2015 14:09	NP
Ethylbenzene	BRL	5.0		ug/L	211099	1	08/05/2015 14:09	NP
Methylene chloride	BRL	5.0		ug/L	211099	1	08/05/2015 14:09	NP
Toluene	BRL	5.0		ug/L	211099	1	08/05/2015 14:09	NP
Trichloroethene	BRL	5.0		ug/L	211099	1	08/05/2015 14:09	NP
Xylenes, Total	BRL	5.0		ug/L	211099	1	08/05/2015 14:09	NP
Surr: 4-Bromofluorobenzene	75.7	70.6-123		%REC	211099	1	08/05/2015 14:09	NP
Surr: Dibromofluoromethane	102	78.7-124		%REC	211099	1	08/05/2015 14:09	NP
Surr: Toluene-d8	99.4	81.3-120		%REC	211099	1	08/05/2015 14:09	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.

Sample/Cooler Receipt Checklist

Client ERM Work Order Number 1507056

Checklist completed by Miriam Ramos 7/31/2015
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 3.1°C Cooler #2 3.2°C Cooler #3 3.7°C Cooler #4 3.5°C Cooler#5 3.8°C Cooler #6 2.9°C
3.1°C

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Client: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: 210956

Sample ID: **MB-210956** Client ID: Units: **mg/L** Prep Date: **08/04/2015** Run No: **297285**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010C** BatchID: **210956** Analysis Date: **08/04/2015** Seq No: **6343520**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.0200									
Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Beryllium	BRL	0.0100									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Copper	BRL	0.0100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Selenium	BRL	0.0200									
Thallium	BRL	0.0200									
Vanadium	BRL	0.0100									
Zinc	BRL	0.0200									

Sample ID: **LCS-210956** Client ID: Units: **mg/L** Prep Date: **08/04/2015** Run No: **297285**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010C** BatchID: **210956** Analysis Date: **08/04/2015** Seq No: **6343521**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.015	0.0200	1.000		101	80	120				
Arsenic	1.029	0.0500	1.000		103	80	120				
Barium	1.020	0.0200	1.000		102	80	120				
Beryllium	1.033	0.0100	1.000		103	80	120				
Cadmium	1.022	0.0050	1.000		102	80	120				
Chromium	1.022	0.0100	1.000		102	80	120				
Copper	0.9998	0.0100	1.000		100.0	80	120				
Lead	1.040	0.0100	1.000		104	80	120				
Nickel	1.032	0.0200	1.000		103	80	120				

Qualifiers:
> Greater than Result value
BRL Below reporting limit
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit
< Less than Result value
E Estimated (value above quantitation range)
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
B Analyte detected in the associated method blank
H Holding times for preparation or analysis exceeded
R RPD outside limits due to matrix

Client: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: 210956

Sample ID: **LCS-210956** Client ID: Units: **mg/L** Prep Date: **08/04/2015** Run No: **297285**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010C** BatchID: **210956** Analysis Date: **08/04/2015** Seq No: **6343521**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Selenium	1.012	0.0200	1.000		101	80	120				
Thallium	1.015	0.0200	1.000		102	80	120				
Vanadium	1.021	0.0100	1.000		102	80	120				
Zinc	1.050	0.0200	1.000	0.006890	104	80	120				

Sample ID: **1507Q56-001CMS** Client ID: **MW-321-20150729-01** Units: **mg/L** Prep Date: **08/04/2015** Run No: **297285**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010C** BatchID: **210956** Analysis Date: **08/04/2015** Seq No: **6343523**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.005	0.0200	1.000	0.003070	100	75	125				
Arsenic	1.017	0.0500	1.000		102	75	125				
Barium	1.267	0.0200	1.000	0.2805	98.7	75	125				
Beryllium	1.018	0.0100	1.000		102	75	125				
Cadmium	1.013	0.0050	1.000		101	75	125				
Chromium	0.9971	0.0100	1.000		99.7	75	125				
Copper	1.015	0.0100	1.000	0.02246	99.3	75	125				
Lead	1.008	0.0100	1.000		101	75	125				
Nickel	0.8467	0.0200	1.000		84.7	75	125				
Selenium	1.010	0.0200	1.000	0.003060	101	75	125				
Thallium	1.018	0.0200	1.000	0.008960	101	75	125				
Vanadium	1.006	0.0100	1.000		101	75	125				
Zinc	1.029	0.0200	1.000	0.01603	101	75	125				

Sample ID: **1507Q56-001CMSD** Client ID: **MW-321-20150729-01** Units: **mg/L** Prep Date: **08/04/2015** Run No: **297285**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010C** BatchID: **210956** Analysis Date: **08/04/2015** Seq No: **6343524**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.012	0.0200	1.000	0.003070	101	75	125	1.005	0.618	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: **210956**

Sample ID: **1507Q56-001CMSD** Client ID: **MW-321-20150729-01** Units: **mg/L** Prep Date: **08/04/2015** Run No: **297285**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010C** BatchID: **210956** Analysis Date: **08/04/2015** Seq No: **6343524**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.018	0.0500	1.000		102	75	125	1.017	0.159	20	
Barium	1.277	0.0200	1.000	0.2805	99.7	75	125	1.267	0.781	20	
Beryllium	1.026	0.0100	1.000		103	75	125	1.018	0.695	20	
Cadmium	1.015	0.0050	1.000		101	75	125	1.013	0.217	20	
Chromium	1.003	0.0100	1.000		100	75	125	0.9971	0.577	20	
Copper	1.028	0.0100	1.000	0.02246	101	75	125	1.015	1.27	20	
Lead	1.012	0.0100	1.000		101	75	125	1.008	0.348	20	
Nickel	0.8518	0.0200	1.000		85.2	75	125	0.8467	0.604	20	
Selenium	1.002	0.0200	1.000	0.003060	99.9	75	125	1.010	0.757	20	
Thallium	1.024	0.0200	1.000	0.008960	102	75	125	1.018	0.605	20	
Vanadium	1.015	0.0100	1.000		101	75	125	1.006	0.848	20	
Zinc	1.030	0.0200	1.000	0.01603	101	75	125	1.029	0.073	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: 210959

Sample ID: **MB-210959** Client ID: Units: **mg/L** Prep Date: **08/04/2015** Run No: **297290**
SampleType: **MBLK** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **210959** Analysis Date: **08/04/2015** Seq No: **6343564**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.0200									
Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Beryllium	BRL	0.0100									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Copper	BRL	0.0100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Selenium	BRL	0.0200									
Thallium	BRL	0.0200									
Vanadium	BRL	0.0100									
Zinc	BRL	0.0200									

Sample ID: **LCS-210959** Client ID: Units: **mg/L** Prep Date: **08/04/2015** Run No: **297290**
SampleType: **LCS** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **210959** Analysis Date: **08/04/2015** Seq No: **6343565**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.007	0.0200	1.000		101	80	120				
Arsenic	1.001	0.0500	1.000		100	80	120				
Barium	0.9999	0.0200	1.000		100.0	80	120				
Beryllium	0.9941	0.0100	1.000		99.4	80	120				
Cadmium	1.003	0.0050	1.000	0.0003205	100	80	120				
Chromium	0.9818	0.0100	1.000		98.2	80	120				
Copper	0.9833	0.0100	1.000		98.3	80	120				
Lead	1.001	0.0100	1.000		100	80	120				
Nickel	1.005	0.0200	1.000		101	80	120				
Selenium	1.003	0.0200	1.000		100	80	120				

Qualifiers:
> Greater than Result value
BRL Below reporting limit
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit
< Less than Result value
E Estimated (value above quantitation range)
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
B Analyte detected in the associated method blank
H Holding times for preparation or analysis exceeded
R RPD outside limits due to matrix

Client: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: 210959

Sample ID: **LCS-210959** Client ID: Units: **mg/L** Prep Date: **08/04/2015** Run No: **297290**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010C** BatchID: **210959** Analysis Date: **08/04/2015** Seq No: **6343565**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Thallium	0.9817	0.0200	1.000		98.2	80	120				
Vanadium	0.9939	0.0100	1.000		99.4	80	120				
Zinc	1.011	0.0200	1.000		101	80	120				

Sample ID: **1507Q56-021CMS** Client ID: **MW-307TZ-20150730-01** Units: **mg/L** Prep Date: **08/04/2015** Run No: **297290**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010C** BatchID: **210959** Analysis Date: **08/04/2015** Seq No: **6343567**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9810	0.0200	1.000		98.1	75	125				
Arsenic	0.9901	0.0500	1.000	0.003461	98.7	75	125				
Barium	1.206	0.0200	1.000	0.2580	94.8	75	125				
Beryllium	0.9600	0.0100	1.000		96.0	75	125				
Cadmium	0.9660	0.0050	1.000	0.0006652	96.5	75	125				
Chromium	0.9454	0.0100	1.000	0.001124	94.4	75	125				
Copper	0.9371	0.0100	1.000		93.7	75	125				
Lead	0.9452	0.0100	1.000		94.5	75	125				
Nickel	0.9314	0.0200	1.000		93.1	75	125				
Selenium	0.9936	0.0200	1.000	0.009001	98.5	75	125				
Thallium	0.9366	0.0200	1.000		93.7	75	125				
Vanadium	0.9579	0.0100	1.000		95.8	75	125				
Zinc	0.9693	0.0200	1.000		96.9	75	125				

Sample ID: **1507Q56-021CMSD** Client ID: **MW-307TZ-20150730-01** Units: **mg/L** Prep Date: **08/04/2015** Run No: **297290**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010C** BatchID: **210959** Analysis Date: **08/04/2015** Seq No: **6343568**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9671	0.0200	1.000		96.7	75	125	0.9810	1.43	20	
Arsenic	0.9726	0.0500	1.000	0.003461	96.9	75	125	0.9901	1.79	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: **210959**

Sample ID: **1507Q56-021CMSD** Client ID: **MW-307TZ-20150730-01** Units: **mg/L** Prep Date: **08/04/2015** Run No: **297290**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010C** BatchID: **210959** Analysis Date: **08/04/2015** Seq No: **6343568**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Barium	1.180	0.0200	1.000	0.2580	92.2	75	125	1.206	2.21	20	
Beryllium	0.9381	0.0100	1.000		93.8	75	125	0.9600	2.31	20	
Cadmium	0.9460	0.0050	1.000	0.0006652	94.5	75	125	0.9660	2.09	20	
Chromium	0.9249	0.0100	1.000	0.001124	92.4	75	125	0.9454	2.20	20	
Copper	0.9161	0.0100	1.000		91.6	75	125	0.9371	2.28	20	
Lead	0.9269	0.0100	1.000		92.7	75	125	0.9452	1.95	20	
Nickel	0.9134	0.0200	1.000		91.3	75	125	0.9314	1.95	20	
Selenium	0.9768	0.0200	1.000	0.009001	96.8	75	125	0.9936	1.70	20	
Thallium	0.9182	0.0200	1.000		91.8	75	125	0.9366	1.99	20	
Vanadium	0.9376	0.0100	1.000		93.8	75	125	0.9579	2.14	20	
Zinc	0.9501	0.0200	1.000		95.0	75	125	0.9693	2.00	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: 210976

Sample ID: **MB-210976** Client ID: Units: **ug/L** Prep Date: **08/04/2015** Run No: **297320**
SampleType: **MBLK** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210976** Analysis Date: **08/05/2015** Seq No: **6344189**

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	1.833	0	2.000		91.7	55.4	136				

Sample ID: **LCS-210976** Client ID: Units: **ug/L** Prep Date: **08/04/2015** Run No: **297320**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210976** Analysis Date: **08/05/2015** Seq No: **6344190**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.695	0.50	2.000		84.7	66.3	118				
Acenaphthylene	1.621	1.0	2.000		81.0	64	120				
Anthracene	1.671	0.050	2.000		83.5	64.6	127				
Benz(a)anthracene	1.589	0.050	2.000		79.4	60.6	137				
Benzo(a)pyrene	1.322	0.050	2.000		66.1	64	124				
Benzo(b)fluoranthene	1.728	0.10	2.000		86.4	56.4	133				

Qualifiers:
> Greater than Result value
BRL Below reporting limit
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit
< Less than Result value
E Estimated (value above quantitation range)
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
B Analyte detected in the associated method blank
H Holding times for preparation or analysis exceeded
R RPD outside limits due to matrix

Client: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: 210976

Sample ID: **LCS-210976** Client ID: Units: **ug/L** Prep Date: **08/04/2015** Run No: **297320**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210976** Analysis Date: **08/05/2015** Seq No: **6344190**

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	1.779	0.10	2.000		89.0	49.9	137				
Benzo(k)fluoranthene	2.005	0.050	2.000		100	61.7	137				
Chrysene	2.221	0.050	2.000		111	65.5	127				
Dibenz(a,h)anthracene	1.994	0.10	2.000		99.7	52.4	130				
Fluoranthene	1.917	0.10	2.000		95.8	67	131				
Fluorene	1.690	0.10	2.000		84.5	68.3	120				
Indeno(1,2,3-cd)pyrene	2.026	0.050	2.000		101	50.4	139				
Naphthalene	1.766	0.50	2.000		88.3	61.1	120				
Phenanthrene	1.604	0.050	2.000		80.2	68	119				
Pyrene	1.848	0.050	2.000		92.4	62	127				
Surr: 4-Terphenyl-d14	1.699	0	2.000		85.0	55.4	136				

Sample ID: **1507Q56-014DMS** Client ID: **MW-507BR-20150730-01** Units: **ug/L** Prep Date: **08/04/2015** Run No: **297320**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210976** Analysis Date: **08/05/2015** Seq No: **6345323**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.195	0.50	2.000		59.8	45.6	120				
Acenaphthylene	1.159	1.0	2.000		58.0	48.3	124				
Anthracene	1.268	0.050	2.000		63.4	57.7	124				
Benz(a)anthracene	1.263	0.050	2.000		63.2	50.3	143				
Benzo(a)pyrene	1.361	0.050	2.000		68.1	44.2	127				
Benzo(b)fluoranthene	1.064	0.10	2.000		53.2	48.4	125				
Benzo(g,h,i)perylene	1.214	0.10	2.000		60.7	40.2	122				
Benzo(k)fluoranthene	1.240	0.050	2.000		62.0	45.5	122				
Chrysene	1.560	0.050	2.000		78.0	46	124				
Dibenz(a,h)anthracene	1.176	0.10	2.000		58.8	40.1	128				
Fluoranthene	1.356	0.10	2.000		67.8	58	127				
Fluorene	1.218	0.10	2.000		60.9	52.6	124				

Qualifiers:
> Greater than Result value
BRL Below reporting limit
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit
< Less than Result value
E Estimated (value above quantitation range)
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
B Analyte detected in the associated method blank
H Holding times for preparation or analysis exceeded
R RPD outside limits due to matrix

Client: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: 210976

Sample ID: **1507Q56-014DMS** Client ID: **MW-507BR-20150730-01** Units: **ug/L** Prep Date: **08/04/2015** Run No: **297320**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210976** Analysis Date: **08/05/2015** Seq No: **6345323**

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	1.194	0.050	2.000		59.7	40.3	129				
Naphthalene	1.225	0.50	2.000		61.2	46.6	120				
Phenanthrene	1.148	0.050	2.000		57.4	50.6	122				
Pyrene	1.382	0.050	2.000		69.1	50.1	128				
Surr: 4-Terphenyl-d14	1.269	0	2.000		63.5	55.4	136				

Sample ID: **1507Q56-014DMSD** Client ID: **MW-507BR-20150730-01** Units: **ug/L** Prep Date: **08/04/2015** Run No: **297320**
SampleType: **MSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **210976** Analysis Date: **08/05/2015** Seq No: **6345324**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.501	0.50	2.000		75.1	45.6	120	1.195	22.7	29.4	
Acenaphthylene	1.439	1.0	2.000		71.9	48.3	124	1.159	21.5	32.5	
Anthracene	1.547	0.050	2.000		77.4	57.7	124	1.268	19.8	21.9	
Benz(a)anthracene	1.556	0.050	2.000		77.8	50.3	143	1.263	20.8	26.8	
Benzo(a)pyrene	1.707	0.050	2.000		85.3	44.2	127	1.361	22.5	40.9	
Benzo(b)fluoranthene	1.384	0.10	2.000		69.2	48.4	125	1.064	26.2	24.2	R
Benzo(g,h,i)perylene	1.587	0.10	2.000		79.3	40.2	122	1.214	26.6	26.2	R
Benzo(k)fluoranthene	1.609	0.050	2.000		80.4	45.5	122	1.240	25.9	23.3	R
Chrysene	1.928	0.050	2.000		96.4	46	124	1.560	21.1	25	
Dibenz(a,h)anthracene	1.501	0.10	2.000		75.0	40.1	128	1.176	24.3	23.6	R
Fluoranthene	1.685	0.10	2.000		84.3	58	127	1.356	21.7	23.5	
Fluorene	1.495	0.10	2.000		74.7	52.6	124	1.218	20.4	31.5	
Indeno(1,2,3-cd)pyrene	1.639	0.050	2.000		81.9	40.3	129	1.194	31.4	28.8	R
Naphthalene	1.508	0.50	2.000		75.4	46.6	120	1.225	20.7	22.9	
Phenanthrene	1.426	0.050	2.000		71.3	50.6	122	1.148	21.6	20.2	R
Pyrene	1.710	0.050	2.000		85.5	50.1	128	1.382	21.2	24.7	
Surr: 4-Terphenyl-d14	1.560	0	2.000		78.0	55.4	136	1.269	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: 211023

Sample ID: **MB-211023** Client ID: Units: **mg/L** Prep Date: **08/05/2015** Run No: **297334**
SampleType: **MBLK** TestCode: **Mercury, Total SW7470A** BatchID: **211023** Analysis Date: **08/05/2015** Seq No: **6344469**

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-211023** Client ID: Units: **mg/L** Prep Date: **08/05/2015** Run No: **297334**
SampleType: **LCS** TestCode: **Mercury, Total SW7470A** BatchID: **211023** Analysis Date: **08/05/2015** Seq No: **6344470**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.005149	0.00020	0.0050		103	80	120				

Sample ID: **1507Q56-002CMS** Client ID: **MW-503BR-20150729-01** Units: **mg/L** Prep Date: **08/05/2015** Run No: **297334**
SampleType: **MS** TestCode: **Mercury, Total SW7470A** BatchID: **211023** Analysis Date: **08/05/2015** Seq No: **6344472**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004959	0.00020	0.0050		99.2	70	130				

Sample ID: **1507Q56-002CMSD** Client ID: **MW-503BR-20150729-01** Units: **mg/L** Prep Date: **08/05/2015** Run No: **297334**
SampleType: **MSD** TestCode: **Mercury, Total SW7470A** BatchID: **211023** Analysis Date: **08/05/2015** Seq No: **6344474**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004977	0.00020	0.0050		99.5	70	130	0.004959	0.363	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: 211043

Sample ID: **MB-211043** Client ID: Units: **mg/L** Prep Date: **08/04/2015** Run No: **297256**
SampleType: **MBLK** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211043** Analysis Date: **08/04/2015** Seq No: **6342395**

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-211043** Client ID: Units: **mg/L** Prep Date: **08/04/2015** Run No: **297256**
SampleType: **LCS** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211043** Analysis Date: **08/04/2015** Seq No: **6342396**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2482	0.010	0.2500		99.3	90	110				

Sample ID: **1507O67-016BMS** Client ID: Units: **mg/L** Prep Date: **08/04/2015** Run No: **297256**
SampleType: **MS** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211043** Analysis Date: **08/04/2015** Seq No: **6342423**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2403	0.010	0.2500		96.1	90	110				

Sample ID: **1507O67-018BMS** Client ID: Units: **mg/L** Prep Date: **08/04/2015** Run No: **297256**
SampleType: **MS** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211043** Analysis Date: **08/04/2015** Seq No: **6342434**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2293	0.010	0.2500		91.7	90	110				

Sample ID: **1507O67-016BMSD** Client ID: Units: **mg/L** Prep Date: **08/04/2015** Run No: **297256**
SampleType: **MSD** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211043** Analysis Date: **08/04/2015** Seq No: **6342428**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2436	0.010	0.2500		97.4	90	110	0.2403	1.36	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: **211043**

Sample ID: **1507O67-018BMSD** Client ID: Units: **mg/L** Prep Date: **08/04/2015** Run No: **297256**
SampleType: **MSD** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211043** Analysis Date: **08/04/2015** Seq No: **6342438**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2312	0.010	0.2500		92.5	90	110	0.2293	0.825	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: 211051

Sample ID: **MB-211051** Client ID: Units: **ug/L** Prep Date: **08/05/2015** Run No: **297424**
SampleType: **MBLK** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **211051** Analysis Date: **08/06/2015** Seq No: **6346232**

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	1.575	0	2.000		78.7	55.4	136				

Sample ID: **LCS-211051** Client ID: Units: **ug/L** Prep Date: **08/05/2015** Run No: **297424**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **211051** Analysis Date: **08/06/2015** Seq No: **6346233**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.516	0.50	2.000		75.8	66.3	118				
Acenaphthylene	1.380	1.0	2.000		69.0	64	120				
Anthracene	1.406	0.050	2.000		70.3	64.6	127				
Benz(a)anthracene	1.454	0.050	2.000		72.7	60.6	137				
Benzo(a)pyrene	1.467	0.050	2.000		73.3	64	124				
Benzo(b)fluoranthene	1.513	0.10	2.000		75.7	56.4	133				

Qualifiers:
> Greater than Result value
BRL Below reporting limit
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit
< Less than Result value
E Estimated (value above quantitation range)
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
B Analyte detected in the associated method blank
H Holding times for preparation or analysis exceeded
R RPD outside limits due to matrix

Client: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: 211051

Sample ID: **LCS-211051** Client ID: Units: **ug/L** Prep Date: **08/05/2015** Run No: **297424**
SampleType: **LCS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **211051** Analysis Date: **08/06/2015** Seq No: **6346233**

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	1.282	0.10	2.000		64.1	49.9	137				
Benzo(k)fluoranthene	1.637	0.050	2.000		81.9	61.7	137				
Chrysene	1.755	0.050	2.000		87.8	65.5	127				
Dibenz(a,h)anthracene	1.208	0.10	2.000		60.4	52.4	130				
Fluoranthene	1.564	0.10	2.000		78.2	67	131				
Fluorene	1.549	0.10	2.000		77.5	68.3	120				
Indeno(1,2,3-cd)pyrene	1.326	0.050	2.000		66.3	50.4	139				
Naphthalene	1.563	0.50	2.000		78.1	61.1	120				
Phenanthrene	1.435	0.050	2.000		71.8	68	119				
Pyrene	1.582	0.050	2.000		79.1	62	127				
Surr: 4-Terphenyl-d14	1.614	0	2.000		80.7	55.4	136				

Sample ID: **1507Q56-021DMS** Client ID: **MW-307TZ-20150730-01** Units: **ug/L** Prep Date: **08/05/2015** Run No: **297424**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **211051** Analysis Date: **08/06/2015** Seq No: **6348135**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.531	0.50	2.000		76.5	45.6	120				
Acenaphthylene	1.591	1.0	2.000		79.6	48.3	124				
Anthracene	1.526	0.050	2.000		76.3	57.7	124				
Benz(a)anthracene	1.987	0.050	2.000		99.4	50.3	143				
Benzo(a)pyrene	1.705	0.050	2.000		85.3	44.2	127				
Benzo(b)fluoranthene	1.600	0.10	2.000		80.0	48.4	125				
Benzo(g,h,i)perylene	1.323	0.10	2.000		66.1	40.2	122				
Benzo(k)fluoranthene	1.316	0.050	2.000		65.8	45.5	122				
Chrysene	1.528	0.050	2.000		76.4	46	124				
Dibenz(a,h)anthracene	1.375	0.10	2.000		68.7	40.1	128				
Fluoranthene	1.583	0.10	2.000		79.2	58	127				
Fluorene	1.655	0.10	2.000		82.7	52.6	124				

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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: **211051**

Sample ID: **1507Q56-021DMS** Client ID: **MW-307TZ-20150730-01** Units: **ug/L** Prep Date: **08/05/2015** Run No: **297424**
SampleType: **MS** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **211051** Analysis Date: **08/06/2015** Seq No: **6348135**

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	1.394	0.050	2.000		69.7	40.3	129				
Naphthalene	1.595	0.50	2.000		79.8	46.6	120				
Phenanthrene	1.554	0.050	2.000		77.7	50.6	122				
Pyrene	1.550	0.050	2.000		77.5	50.1	128				
Surr: 4-Terphenyl-d14	1.645	0	2.000		82.2	55.4	136				

Sample ID: **1507Q56-021DMSD** Client ID: **MW-307TZ-20150730-01** Units: **ug/L** Prep Date: **08/05/2015** Run No: **297424**
SampleType: **MSD** TestCode: **SIM Polynuclear Aromatic Hydrocarbons SW8270D** BatchID: **211051** Analysis Date: **08/06/2015** Seq No: **6348136**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	1.270	0.50	2.000		63.5	45.6	120	1.531	18.6	29.4	
Acenaphthylene	1.288	1.0	2.000		64.4	48.3	124	1.591	21.0	32.5	
Anthracene	1.330	0.050	2.000		66.5	57.7	124	1.526	13.8	21.9	
Benz(a)anthracene	1.724	0.050	2.000		86.2	50.3	143	1.987	14.2	26.8	
Benzo(a)pyrene	1.575	0.050	2.000		78.7	44.2	127	1.705	7.96	40.9	
Benzo(b)fluoranthene	1.491	0.10	2.000		74.5	48.4	125	1.600	7.06	24.2	
Benzo(g,h,i)perylene	1.187	0.10	2.000		59.4	40.2	122	1.323	10.8	26.2	
Benzo(k)fluoranthene	1.239	0.050	2.000		61.9	45.5	122	1.316	6.03	23.3	
Chrysene	1.443	0.050	2.000		72.2	46	124	1.528	5.69	25	
Dibenz(a,h)anthracene	1.223	0.10	2.000		61.1	40.1	128	1.375	11.7	23.6	
Fluoranthene	1.423	0.10	2.000		71.1	58	127	1.583	10.7	23.5	
Fluorene	1.386	0.10	2.000		69.3	52.6	124	1.655	17.7	31.5	
Indeno(1,2,3-cd)pyrene	1.265	0.050	2.000		63.3	40.3	129	1.394	9.71	28.8	
Naphthalene	1.123	0.50	2.000		56.2	46.6	120	1.595	34.7	22.9	R
Phenanthrene	1.341	0.050	2.000		67.0	50.6	122	1.554	14.7	20.2	
Pyrene	1.435	0.050	2.000		71.8	50.1	128	1.550	7.71	24.7	
Surr: 4-Terphenyl-d14	1.451	0	2.000		72.5	55.4	136	1.645	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: 211069

Sample ID: **MB-211069** Client ID: Units: **ug/L** Prep Date: **08/04/2015** Run No: **297189**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **211069** Analysis Date: **08/04/2015** Seq No: **6343049**

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	39.07	0	50.00		78.1	70.6	123				
Surr: Dibromofluoromethane	51.30	0	50.00		103	78.7	124				
Surr: Toluene-d8	48.37	0	50.00		96.7	81.3	120				

Sample ID: **LCS-211069** Client ID: Units: **ug/L** Prep Date: **08/04/2015** Run No: **297189**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **211069** Analysis Date: **08/04/2015** Seq No: **6343048**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	58.62	5.0	50.00		117	72.8	128				
Toluene	62.23	5.0	50.00		124	74.9	127				
Trichloroethene	58.79	5.0	50.00		118	70.5	134				
Surr: 4-Bromofluorobenzene	40.32	0	50.00		80.6	70.6	123				
Surr: Dibromofluoromethane	49.42	0	50.00		98.8	78.7	124				
Surr: Toluene-d8	47.97	0	50.00		95.9	81.3	120				

Sample ID: **1507Q56-006AMS** Client ID: **MW-500BR-20150729-01** Units: **ug/L** Prep Date: **08/04/2015** Run No: **297189**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **211069** Analysis Date: **08/04/2015** Seq No: **6343051**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	12280	500	5000	6223	121	70	135				

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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: 211069

Sample ID: **1507Q56-006AMS** Client ID: **MW-500BR-20150729-01** Units: **ug/L** Prep Date: **08/04/2015** Run No: **297189**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **211069** Analysis Date: **08/04/2015** Seq No: **6343051**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Toluene	5373	500	5000		107	70.5	137				
Trichloroethene	5145	500	5000		103	71.8	139				
Surr: 4-Bromofluorobenzene	4060	0	5000		81.2	70.6	123				
Surr: Dibromofluoromethane	5105	0	5000		102	78.7	124				
Surr: Toluene-d8	4882	0	5000		97.6	81.3	120				

Sample ID: **1507Q56-006AMSD** Client ID: **MW-500BR-20150729-01** Units: **ug/L** Prep Date: **08/04/2015** Run No: **297189**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **211069** Analysis Date: **08/04/2015** Seq No: **6343052**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	12140	500	5000	6223	118	70	135	12280	1.13	20	
Toluene	5235	500	5000		105	70.5	137	5373	2.60	20	
Trichloroethene	5170	500	5000		103	71.8	139	5145	0.485	20	
Surr: 4-Bromofluorobenzene	3888	0	5000		77.8	70.6	123	4060	0	0	
Surr: Dibromofluoromethane	4986	0	5000		99.7	78.7	124	5105	0	0	
Surr: Toluene-d8	4925	0	5000		98.5	81.3	120	4882	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: 211071

Sample ID: **MB-211071** Client ID: Units: **mg/L** Prep Date: **08/05/2015** Run No: **297335**
SampleType: **MBLK** TestCode: **Mercury, Total SW7470A** BatchID: **211071** Analysis Date: **08/05/2015** Seq No: **6344513**

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-211071** Client ID: Units: **mg/L** Prep Date: **08/05/2015** Run No: **297335**
SampleType: **LCS** TestCode: **Mercury, Total SW7470A** BatchID: **211071** Analysis Date: **08/05/2015** Seq No: **6344514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.005121	0.00020	0.0050		102	80	120				

Sample ID: **1507Q56-022CMS** Client ID: **MW-401S-20150730-01** Units: **mg/L** Prep Date: **08/05/2015** Run No: **297335**
SampleType: **MS** TestCode: **Mercury, Total SW7470A** BatchID: **211071** Analysis Date: **08/05/2015** Seq No: **6344516**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.004985	0.00020	0.0050		99.7	70	130				

Sample ID: **1507Q56-022CMSD** Client ID: **MW-401S-20150730-01** Units: **mg/L** Prep Date: **08/05/2015** Run No: **297335**
SampleType: **MSD** TestCode: **Mercury, Total SW7470A** BatchID: **211071** Analysis Date: **08/05/2015** Seq No: **6344519**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.005042	0.00020	0.0050		101	70	130	0.004985	1.14	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: 211099

Sample ID: **MB-211099** Client ID: Units: **ug/L** Prep Date: **08/05/2015** Run No: **297350**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **211099** Analysis Date: **08/05/2015** Seq No: **6344809**

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	38.89	0	50.00		77.8	70.6	123				
Surr: Dibromofluoromethane	52.80	0	50.00		106	78.7	124				
Surr: Toluene-d8	50.67	0	50.00		101	81.3	120				

Sample ID: **LCS-211099** Client ID: Units: **ug/L** Prep Date: **08/05/2015** Run No: **297350**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **211099** Analysis Date: **08/05/2015** Seq No: **6344808**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	49.52	5.0	50.00		99.0	72.8	128				
Toluene	52.31	5.0	50.00		105	74.9	127				
Trichloroethene	50.89	5.0	50.00		102	70.5	134				
Surr: 4-Bromofluorobenzene	38.15	0	50.00		76.3	70.6	123				
Surr: Dibromofluoromethane	52.91	0	50.00		106	78.7	124				
Surr: Toluene-d8	48.54	0	50.00		97.1	81.3	120				

Sample ID: **1507Q56-025AMS** Client ID: **MW-307BR-20150731-01** Units: **ug/L** Prep Date: **08/05/2015** Run No: **297350**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **211099** Analysis Date: **08/05/2015** Seq No: **6344817**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	10870	500	5000	5524	107	70	135				

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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: **211099**

Sample ID: **1507Q56-025AMS** Client ID: **MW-307BR-20150731-01** Units: **ug/L** Prep Date: **08/05/2015** Run No: **297350**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **211099** Analysis Date: **08/05/2015** Seq No: **6344817**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Toluene	5102	500	5000		102	70.5	137				
Trichloroethene	4851	500	5000		97.0	71.8	139				
Surr: 4-Bromofluorobenzene	4013	0	5000		80.3	70.6	123				
Surr: Dibromofluoromethane	5013	0	5000		100	78.7	124				
Surr: Toluene-d8	4948	0	5000		99.0	81.3	120				

Sample ID: **1507Q56-025AMSD** Client ID: **MW-307BR-20150731-01** Units: **ug/L** Prep Date: **08/05/2015** Run No: **297350**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **211099** Analysis Date: **08/05/2015** Seq No: **6344822**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	10640	500	5000	5524	102	70	135	10870	2.12	20	
Toluene	5006	500	5000		100	70.5	137	5102	1.90	20	
Trichloroethene	4699	500	5000		94.0	71.8	139	4851	3.18	20	
Surr: 4-Bromofluorobenzene	3886	0	5000		77.7	70.6	123	4013	0	0	
Surr: Dibromofluoromethane	4951	0	5000		99.0	78.7	124	5013	0	0	
Surr: Toluene-d8	4903	0	5000		98.1	81.3	120	4948	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: 211148

Sample ID: **MB-211148** Client ID: Units: **mg/L** Prep Date: **08/05/2015** Run No: **297422**
SampleType: **MBLK** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211148** Analysis Date: **08/06/2015** Seq No: **6346126**

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-211148** Client ID: Units: **mg/L** Prep Date: **08/05/2015** Run No: **297422**
SampleType: **LCS** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211148** Analysis Date: **08/06/2015** Seq No: **6346127**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2324	0.010	0.2500		93.0	90	110				

Sample ID: **1507Q56-003BMS** Client ID: **MW-511BR-20150729-01** Units: **mg/L** Prep Date: **08/05/2015** Run No: **297422**
SampleType: **MS** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211148** Analysis Date: **08/06/2015** Seq No: **6346149**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2360	0.010	0.2500		94.4	90	110				

Sample ID: **1507Q56-013BMS** Client ID: **MW-19-20150730-01** Units: **mg/L** Prep Date: **08/05/2015** Run No: **297422**
SampleType: **MS** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211148** Analysis Date: **08/06/2015** Seq No: **6346152**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2415	0.010	0.2500		96.6	90	110				

Sample ID: **1507Q56-003BMSD** Client ID: **MW-511BR-20150729-01** Units: **mg/L** Prep Date: **08/05/2015** Run No: **297422**
SampleType: **MSD** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211148** Analysis Date: **08/06/2015** Seq No: **6346150**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2378	0.010	0.2500		95.1	90	110	0.2360	0.760	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1507Q56

ANALYTICAL QC SUMMARY REPORT

BatchID: 211149

Sample ID: **MB-211149** Client ID: Units: **mg/L** Prep Date: **08/06/2015** Run No: **297423**
SampleType: **MBLK** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211149** Analysis Date: **08/06/2015** Seq No: **6346205**

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-211149** Client ID: Units: **mg/L** Prep Date: **08/06/2015** Run No: **297423**
SampleType: **LCS** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211149** Analysis Date: **08/06/2015** Seq No: **6346206**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2324	0.010	0.2500		93.0	90	110				

Sample ID: **1507Q56-023BMS** Client ID: **MW-306TZ-20150730-01** Units: **mg/L** Prep Date: **08/06/2015** Run No: **297423**
SampleType: **MS** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211149** Analysis Date: **08/06/2015** Seq No: **6346221**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2706	0.010	0.2500		108	90	110				

Sample ID: **1507Q56-025BMS** Client ID: **MW-307BR-20150731-01** Units: **mg/L** Prep Date: **08/06/2015** Run No: **297423**
SampleType: **MS** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211149** Analysis Date: **08/06/2015** Seq No: **6349410**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2336	0.010	0.2500		93.4	90	110				

Sample ID: **1507Q56-023BMSD** Client ID: **MW-306TZ-20150730-01** Units: **mg/L** Prep Date: **08/06/2015** Run No: **297423**
SampleType: **MSD** TestCode: **Total Cyanide (SM4500 CN-C, E)** BatchID: **211149** Analysis Date: **08/06/2015** Seq No: **6346222**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2737	0.010	0.2500		109	90	110	0.2706	1.14	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		

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

April 13, 2015

Greg Jirak
ERM-Southeast
3200 Windy Hill Rd
Atlanta GA 30339

TEL: (678) 486-2700
FAX: (404) 745-0103

RE: AGL Augusta

Dear Greg Jirak: Order No: 1504239

Analytical Environmental Services, Inc. received 3 samples on 4/3/2015 10:35:00 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' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

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.

Mirzeta Kararic

Mirzeta Kararic
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3080 Presidential Drive, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1504239

Date: 4/3/2015 Page 1 of 1

COMPANY: ERM

ADDRESS: 3200 Windy Hill Rd SE Ste 1500W Atlanta, GA 30339

PHONE: (678) 486-2700

FAX: —

SAMPLED BY: V. Virgo / B. Mitchell

SIGNATURE:

ANALYSIS REQUESTED: PH, BTEX, Total Metals, Hex Chrom

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PH	BTEX	Total Metals	Hex Chrom	REMARKS	No # of Containers
1	Effluent Grab	4/3/15	0730	X		GW	1	2				3
2	Effluent Composite	↓	0730		X	GW			1	1		2
3	Trip Blank		—			W						1
4	Temp Blank	↓	—			W						1
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Bill Mitchell	4-3-15 10:35	1: Latoya Reeves	4/3/15 10:35
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: ABL Augusta
PROJECT #:
SITE ADDRESS: Augusta, GA
SEND REPORT TO: Greg.Jirak@ERM.com
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers: 7

Turnaround Time Request
- ☒ Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

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

Client: ERM-Southeast
Project: AGL Augusta
Lab ID: 1504239

Case Narrative

Sample Receiving Nonconformance:

Sample for pH analysis by Method SM4500 H+ B was received and analyzed outside of the method specified holding time of immediate or 15 minutes.

Sample for Barium analysis was not received and was not listed on the Chain of Custody (COC) for sample "Effluent Grab"; however, Barium is usually reported per project history. Per Greg Jirak 4/3/2015, sample needed for Barium analysis was split and preserved from the unpreserved sample that was received for pH analysis. Chemical preservatives were added to meet method specified pH requirements for the requested test methods.

Analytical Environmental Services, Inc **Date:** 13-Apr-15

Client:	ERM-Southeast	**Client Sample ID:**	EFFLUENT GRAB
Project Name:	AGL Augusta	**Collection Date:**	4/3/2015 7:30:00 AM
Lab ID:	1504239-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP E200.7				**(E200.7)**				
Barium	0.755	0.0100		mg/L	205531	1	04/07/2015 22:41	JL
PRIORITY POLLUTANT-VOLATILES E624				**(E624)**				
Benzene	BRL	5.0		ug/L	205622	1	04/06/2015 20:56	MD
Ethylbenzene	BRL	5.0		ug/L	205622	1	04/06/2015 20:56	MD
m,p-Xylene	BRL	5.0		ug/L	205622	1	04/06/2015 20:56	MD
o-Xylene	BRL	5.0		ug/L	205622	1	04/06/2015 20:56	MD
Toluene	BRL	5.0		ug/L	205622	1	04/06/2015 20:56	MD
Surr: 4-Bromofluorobenzene	101	70.6-123		%REC	205622	1	04/06/2015 20:56	MD
Surr: Dibromofluoromethane	100	78.7-124		%REC	205622	1	04/06/2015 20:56	MD
Surr: Toluene-d8	95.7	81.3-120		%REC	205622	1	04/06/2015 20:56	MD
Hydrogen Ion (pH) by SM4500 H+ B								
pH	7.07	0.0100	H	pH Units	R289312	1	04/07/2015 09:15	JS

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:** 13-Apr-15

Client:	ERM-Southeast	**Client Sample ID:**	EFFLUENT COMPOSITE
Project Name:	AGL Augusta	**Collection Date:**	4/3/2015 7:30:00 AM
Lab ID:	1504239-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP E200.7				**(E200.7)**				
Antimony	BRL	0.0600		mg/L	205531	1	04/07/2015 22:51	JL
Chromium	BRL	0.0100		mg/L	205531	1	04/07/2015 22:51	JL
Copper	BRL	0.0250		mg/L	205531	1	04/07/2015 22:51	JL
Nickel	BRL	0.0200		mg/L	205531	1	04/07/2015 22:51	JL
Hexavalent Chromium SM3500-Cr B								
Chromium, Hexavalent	BRL	0.010		mg/L	R289242	1	04/03/2015 12:10	OM

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:** 13-Apr-15

Client:	ERM-Southeast	**Client Sample ID:**	TRIP BLANK
Project Name:	AGL Augusta	**Collection Date:**	4/3/2015
Lab ID:	1504239-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
PRIORITY POLLUTANT-VOLATILES E624				**(E624)**				
Benzene	BRL	5.0		ug/L	205622	1	04/06/2015 20:30	MD
Ethylbenzene	BRL	5.0		ug/L	205622	1	04/06/2015 20:30	MD
m,p-Xylene	BRL	5.0		ug/L	205622	1	04/06/2015 20:30	MD
o-Xylene	BRL	5.0		ug/L	205622	1	04/06/2015 20:30	MD
Toluene	BRL	5.0		ug/L	205622	1	04/06/2015 20:30	MD
Surr: 4-Bromofluorobenzene	102	70.6-123		%REC	205622	1	04/06/2015 20:30	MD
Surr: Dibromofluoromethane	100	78.7-124		%REC	205622	1	04/06/2015 20:30	MD
Surr: Toluene-d8	94.8	81.3-120		%REC	205622	1	04/06/2015 20:30	MD

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.

Sample/Cooler Receipt Checklist

Client ERM Work Order Number 1504239

Checklist completed by Tanya Delos 4/3/15
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 8.0 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes __ No ✓

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes __ 4 mS vials No ✓ Not Applicable __

Adjusted? MJ Checked by Tanya

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\l\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Analytical Environmental Services, Inc

Date: 13-Apr-15

Client: ERM-Southeast
Project Name: AGL Augusta
Lab Order: 1504239

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1504239-001A	EFFLUENT GRAB	4/3/2015 7:30:00AM	Groundwater	PP-VOLATILES		4/6/2015 11:55:00AM	04/06/2015
1504239-001B	EFFLUENT GRAB	4/3/2015 7:30:00AM	Groundwater	Hydrogen Ion (pH) by SM4500 H+ B			04/07/2015
1504239-001C	EFFLUENT GRAB	4/3/2015 7:30:00AM	Groundwater	Total Metals by ICP		4/4/2015 9:45:00AM	04/07/2015
1504239-002A	EFFLUENT COMPOSITE	4/3/2015 7:30:00AM	Groundwater	Total Metals by ICP		4/4/2015 9:45:00AM	04/07/2015
1504239-002B	EFFLUENT COMPOSITE	4/3/2015 7:30:00AM	Groundwater	Hexavalent Chromium			04/03/2015
1504239-003A	TRIP BLANK	4/3/2015 12:00:00AM	Aqueous	PP-VOLATILES		4/6/2015 11:55:00AM	04/06/2015

AES, Inc.
3080 Presidential Drive
Atlanta GA 30340

pH Adjustment Sheet

AES Sample ID number	Test Requested	pH as Received	Required pH	Preservative Required	Lot # of Preservative	Amount Added mL or Pellets*	Final pH	Tech's Initials	Date	Time
1504239-001C	Metal	6	<2	HNO3	600-78	.25 mL Pellets	1	MS	4/3/15	11:50
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
						mL Pellets				
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						mL Pellets				
						mL Pellets				

* Number of Pellets when adding NAOH

Client: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1504239

ANALYTICAL QC SUMMARY REPORT

BatchID: **205531**

Sample ID: **MB-205531** Client ID: Units: **mg/L** Prep Date: **04/04/2015** Run No: **289380**
SampleType: **MBLK** TestCode: **Total Metals by ICP E200.7** BatchID: **205531** Analysis Date: **04/07/2015** Seq No: **6151384**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.0600									
Barium	BRL	0.0100									
Chromium	BRL	0.0100									
Copper	BRL	0.0250									
Nickel	BRL	0.0200									

Sample ID: **LCS-205531** Client ID: Units: **mg/L** Prep Date: **04/04/2015** Run No: **289380**
SampleType: **LCS** TestCode: **Total Metals by ICP E200.7** BatchID: **205531** Analysis Date: **04/07/2015** Seq No: **6151385**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.063	0.0600	1.000		106	85	115				
Barium	1.055	0.0100	1.000		106	85	115				
Chromium	1.106	0.0100	1.000		111	85	115				
Copper	1.041	0.0250	1.000		104	85	115				
Nickel	1.046	0.0200	1.000		105	85	115				

Sample ID: **1504119-001BMS** Client ID: Units: **mg/L** Prep Date: **04/04/2015** Run No: **289380**
SampleType: **MS** TestCode: **Total Metals by ICP E200.7** BatchID: **205531** Analysis Date: **04/07/2015** Seq No: **6151387**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.075	0.0600	1.000		108	70	130				
Barium	1.086	0.0100	1.000	0.03335	105	70	130				
Chromium	1.109	0.0100	1.000	0.002344	111	70	130				
Copper	1.060	0.0250	1.000	0.003096	106	70	130				
Nickel	1.029	0.0200	1.000	0.003300	103	70	130				

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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1504239

ANALYTICAL QC SUMMARY REPORT

BatchID: 205531

Sample ID: **1504196-001AMS** Client ID: Units: **mg/L** Prep Date: **04/04/2015** Run No: **289380**
SampleType: **MS** TestCode: **Total Metals by ICP E200.7** BatchID: **205531** Analysis Date: **04/07/2015** Seq No: **6151392**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.057	0.0600	1.000		106	70	130				
Barium	1.052	0.0100	1.000	0.01148	104	70	130				
Chromium	1.094	0.0100	1.000		109	70	130				
Copper	1.034	0.0250	1.000		103	70	130				
Nickel	1.034	0.0200	1.000		103	70	130				

Sample ID: **1504119-001BMSD** Client ID: Units: **mg/L** Prep Date: **04/04/2015** Run No: **289380**
SampleType: **MSD** TestCode: **Total Metals by ICP E200.7** BatchID: **205531** Analysis Date: **04/07/2015** Seq No: **6151388**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.067	0.0600	1.000		107	70	130	1.075	0.765	20	
Barium	1.074	0.0100	1.000	0.03335	104	70	130	1.086	1.11	20	
Chromium	1.096	0.0100	1.000	0.002344	109	70	130	1.109	1.23	20	
Copper	1.045	0.0250	1.000	0.003096	104	70	130	1.060	1.43	20	
Nickel	1.017	0.0200	1.000	0.003300	101	70	130	1.029	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1504239

ANALYTICAL QC SUMMARY REPORT

BatchID: 205622

Sample ID: **MB-205622** Client ID: Units: **ug/L** Prep Date: **04/06/2015** Run No: **289213**
SampleType: **MBLK** TestCode: **PRIORITY POLLUTANT-VOLATILES E624** BatchID: **205622** Analysis Date: **04/06/2015** Seq No: **6149205**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	49.99	0	50.00		100.0	70.6	123				
Surr: Dibromofluoromethane	47.88	0	50.00		95.8	78.7	124				
Surr: Toluene-d8	47.35	0	50.00		94.7	81.3	120				

Sample ID: **LCS-205622** Client ID: Units: **ug/L** Prep Date: **04/06/2015** Run No: **289213**
SampleType: **LCS** TestCode: **PRIORITY POLLUTANT-VOLATILES E624** BatchID: **205622** Analysis Date: **04/06/2015** Seq No: **6149209**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	19.67	5.00	20.00		98.4	64	136				
Ethylbenzene	21.00	5.00	20.00		105	59	141				
m,p-Xylene	40.55	5.0	40.00		101	69.5	123				
o-Xylene	20.41	5.0	20.00		102	67.9	119				
Toluene	20.61	5.0	20.00		103	75	126				
Surr: 4-Bromofluorobenzene	55.91	0	50.00		112	70.6	123				
Surr: Dibromofluoromethane	49.14	0	50.00		98.3	78.7	124				
Surr: Toluene-d8	49.24	0	50.00		98.5	81.3	120				

Sample ID: **1504277-003AMS** Client ID: Units: **ug/L** Prep Date: **04/06/2015** Run No: **289213**
SampleType: **MS** TestCode: **PRIORITY POLLUTANT-VOLATILES E624** BatchID: **205622** Analysis Date: **04/06/2015** Seq No: **6149207**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	956.5	250	1000		95.6	37	151				
Ethylbenzene	1072	250	1000		107	37	162				

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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1504239

ANALYTICAL QC SUMMARY REPORT

BatchID: 205622

Sample ID: **1504277-003AMS** Client ID: Units: **ug/L** Prep Date: **04/06/2015** Run No: **289213**
SampleType: **MS** TestCode: **PRIORITY POLLUTANT-VOLATILES E624** BatchID: **205622** Analysis Date: **04/06/2015** Seq No: **6149207**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
m,p-Xylene	2048	250	2000		102	71.5	145				
o-Xylene	1016	250	1000		102	72	140				
Toluene	964.0	250	1000		96.4	47	150				
Surr: 4-Bromofluorobenzene	2752	0	2500		110	70.6	123				
Surr: Dibromofluoromethane	2400	0	2500		96.0	78.7	124				
Surr: Toluene-d8	2452	0	2500		98.1	81.3	120				

Sample ID: **1504277-003AMSD** Client ID: Units: **ug/L** Prep Date: **04/06/2015** Run No: **289213**
SampleType: **MSD** TestCode: **PRIORITY POLLUTANT-VOLATILES E624** BatchID: **205622** Analysis Date: **04/06/2015** Seq No: **6149208**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	937.0	250	1000		93.7	37	151	956.5	2.06	19.4	
Ethylbenzene	1032	250	1000		103	37	162	1072	3.80	19.1	
m,p-Xylene	2004	250	2000		100	71.5	145	2048	2.15	20.4	
o-Xylene	993.5	250	1000		99.4	72	140	1016	2.24	18.8	
Toluene	948.5	250	1000		94.8	47	150	964.0	1.62	19.7	
Surr: 4-Bromofluorobenzene	2802	0	2500		112	70.6	123	2752	0	0	
Surr: Dibromofluoromethane	2419	0	2500		96.8	78.7	124	2400	0	0	
Surr: Toluene-d8	2416	0	2500		96.7	81.3	120	2452	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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1504239

ANALYTICAL QC SUMMARY REPORT

BatchID: **R289242**

Sample ID: **MB-R289242** Client ID: Units: **mg/L** Prep Date: Run No: **289242**
SampleType: **MBLK** TestCode: **Hexavalent Chromium** **SM3500-Cr B** BatchID: **R289242** Analysis Date: **04/02/2015** Seq No: **6147435**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	BRL	0.010									

Sample ID: **LCS-R289242** Client ID: Units: **mg/L** Prep Date: Run No: **289242**
SampleType: **LCS** TestCode: **Hexavalent Chromium** **SM3500-Cr B** BatchID: **R289242** Analysis Date: **04/02/2015** Seq No: **6147436**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4743	0.010	0.5000		94.9	90	110				

Sample ID: **1504165-001EMS** Client ID: Units: **mg/L** Prep Date: Run No: **289242**
SampleType: **MS** TestCode: **Hexavalent Chromium** **SM3500-Cr B** BatchID: **R289242** Analysis Date: **04/02/2015** Seq No: **6147450**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.3962	0.010	0.5000		79.2	85	115				S

Sample ID: **1504165-001EMSD** Client ID: Units: **mg/L** Prep Date: Run No: **289242**
SampleType: **MSD** TestCode: **Hexavalent Chromium** **SM3500-Cr B** BatchID: **R289242** Analysis Date: **04/02/2015** Seq No: **6147464**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.3952	0.010	0.5000		79.0	85	115	0.3962	0.253	30	S

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: ERM-Southeast
Project Name: AGL Augusta
Workorder: 1504239

ANALYTICAL QC SUMMARY REPORT

BatchID: R289312

Sample ID: **LCS-R289312** Client ID: Units: **pH Units** Prep Date: Run No: **289312**
SampleType: **LCS** TestCode: **Hydrogen Ion (pH) by SM4500 H+ B** BatchID: **R289312** Analysis Date: **04/07/2015** Seq No: **6149413**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	7.040	0.0100	7.000		101	90	110				

Sample ID: **1504032-001ADUP** Client ID: Units: **pH Units** Prep Date: Run No: **289312**
SampleType: **DUP** TestCode: **Hydrogen Ion (pH) by SM4500 H+ B** BatchID: **R289312** Analysis Date: **04/07/2015** Seq No: **6149428**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	7.090	0.0100						7.100	0.141	20	H

Sample ID: **1504344-001CDUP** Client ID: Units: **pH Units** Prep Date: Run No: **289312**
SampleType: **DUP** TestCode: **Hydrogen Ion (pH) by SM4500 H+ B** BatchID: **R289312** Analysis Date: **04/07/2015** Seq No: **6149431**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	5.790	0.0100						5.780	0.173	20	H

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.

May 18, 2015

Greg Jirak
ERM-Southeast
3200 Windy Hill Rd
Atlanta GA 30339

TEL: (678) 486-2700
FAX: (404) 745-0103

RE: AGLC Augusta

Dear Greg Jirak: Order No: 1505821

Analytical Environmental Services, Inc. received 3 samples on May 8, 2015 1:35 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' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

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.

Mirzeta Kararic

Mirzeta Kararic
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3080 Presidential Drive, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1505821

Date: 05/08/2015 Page 1 of 1

COMPANY: ERM

ADDRESS: 3200 WINDY HILL RD SE SUITE 1500W ATLANTA, GA 30339

PHONE: 678 486 2700

FAX:

SAMPLED BY: A. SCHREDETS, J. MULLOOLY

SIGNATURE:

ANALYSIS REQUESTED: BTEX; pH; TSS; Sb, Cu, Ni; Hex. Cr

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	BTEX	pH	TSS	Sb, Cu, Ni	Hex. Cr	REMARKS	No # of Containers
	PRESERVATION (See codes)						H	NA	N	N	NA		
1	EFF-G-20150508-01	5/8/15	09:40	X		GW	2	1	1				4
2	EFF-C-20150508-01	-11-	09:40		X	GW				1	1		2
3	TB-1-20150508-01	N/A	N/A			W	2						2
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	05/08/2015 13:35	1: Cataya Reeves	5/8/15 1:35
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: AGLC AUGUSTA
PROJECT #: 0230712.052
SITE ADDRESS: AUGUSTA, GA
SEND REPORT TO: greg.jirak@erm.com
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers: 8

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

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

Client: ERM-Southeast
Project: AGLC Augusta
Lab ID: 1505821

Case Narrative

pH Analysis by Method SM4500 H+ B:

Samples for pH Analysis by Method SM4500 H+ B were received and analyzed outside holding time requirement of "immediate or 15 minutes".

Analytical Environmental Services, Inc **Date:** 21-May-15

Client:	ERM-Southeast	**Client Sample ID:**	EFF-G-20150508-01
Project Name:	AGLC Augusta	**Collection Date:**	5/8/2015 9:40:00 AM
Lab ID:	1505821-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP E200.7				**(E200.7)**				
Barium	0.815	0.0100		mg/L	207354	1	05/14/2015 23:23	IO
PRIORITY POLLUTANT-VOLATILES E624				**(E624)**				
Benzene	BRL	5.0		ug/L	207369	1	05/13/2015 23:04	NH
Ethylbenzene	BRL	5.0		ug/L	207369	1	05/13/2015 23:04	NH
m,p-Xylene	BRL	5.0		ug/L	207369	1	05/13/2015 23:04	NH
o-Xylene	BRL	5.0		ug/L	207369	1	05/13/2015 23:04	NH
Toluene	BRL	5.0		ug/L	207369	1	05/13/2015 23:04	NH
Surr: 4-Bromofluorobenzene	91.4	70.6-123		%REC	207369	1	05/13/2015 23:04	NH
Surr: Dibromofluoromethane	102	78.7-124		%REC	207369	1	05/13/2015 23:04	NH
Surr: Toluene-d8	100	81.3-120		%REC	207369	1	05/13/2015 23:04	NH
Hydrogen Ion (pH) by SM4500 H+ B								
pH	7.04	0.0100	H	pH Units	R291505	1	05/11/2015 11:15	JS

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:** 21-May-15

Client:	ERM-Southeast	**Client Sample ID:**	EFF-C-20150508-01
Project Name:	AGLC Augusta	**Collection Date:**	5/8/2015 9:40:00 AM
Lab ID:	1505821-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP E200.7				**(E200.7)**				
Antimony	BRL	0.0600		mg/L	207354	1	05/14/2015 23:40	IO
Chromium	BRL	0.0100		mg/L	207354	1	05/14/2015 23:40	IO
Copper	0.203	0.0250		mg/L	207354	1	05/14/2015 23:40	IO
Nickel	BRL	0.0200		mg/L	207354	1	05/14/2015 23:40	IO
Hexavalent Chromium SM3500-Cr B								
Chromium, Hexavalent	BRL	0.010		mg/L	R291672	1	05/09/2015 08:45	VS

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:** 21-May-15

Client:	ERM-Southeast	**Client Sample ID:**	TB-1-20150508-01
Project Name:	AGLC Augusta	**Collection Date:**	5/8/2015
Lab ID:	1505821-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
PRIORITY POLLUTANT-VOLATILES E624				**(E624)**				
Benzene	BRL	5.0		ug/L	207369	1	05/13/2015 19:12	NH
Ethylbenzene	BRL	5.0		ug/L	207369	1	05/13/2015 19:12	NH
m,p-Xylene	BRL	5.0		ug/L	207369	1	05/13/2015 19:12	NH
o-Xylene	BRL	5.0		ug/L	207369	1	05/13/2015 19:12	NH
Toluene	BRL	5.0		ug/L	207369	1	05/13/2015 19:12	NH
Surr: 4-Bromofluorobenzene	90.6	70.6-123		%REC	207369	1	05/13/2015 19:12	NH
Surr: Dibromofluoromethane	104	78.7-124		%REC	207369	1	05/13/2015 19:12	NH
Surr: Toluene-d8	104	81.3-120		%REC	207369	1	05/13/2015 19:12	NH

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.

Sample/Cooler Receipt Checklist

Client ERM-SE Work Order Number 1505821

Checklist completed by Kristie Fomm 5/8/15
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes ✓ No __ Not Present __

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 3.4°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ KF 5/8 No ✓

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by KF

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Analytical Environmental Services, Inc

Date: 21-May-15

Client: ERM-Southeast
Project Name: AGLC Augusta
Lab Order: 1505821

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1505821-001A	EFF-G-20150508-01	5/8/2015 9:40:00AM	Groundwater	PP-VOLATILES		5/13/2015 11:30:00 AM	05/13/2015
1505821-001A	EFF-G-20150508-01	5/8/2015 9:40:00AM	Groundwater	PP-VOLATILES		5/13/2015 11:30:00 AM	05/13/2015
1505821-001B	EFF-G-20150508-01	5/8/2015 9:40:00AM	Groundwater	Hydrogen Ion (pH) by SM4500 H+ B			05/11/2015
1505821-001C	EFF-G-20150508-01	5/8/2015 9:40:00AM	Groundwater	Total Metals by ICP		5/13/2015 2:05:00 PM	05/14/2015
1505821-002A	EFF-C-20150508-01	5/8/2015 9:40:00AM	Groundwater	Total Metals by ICP		5/13/2015 2:05:00 PM	05/14/2015
1505821-002B	EFF-C-20150508-01	5/8/2015 9:40:00AM	Groundwater	Hexavalent Chromium			05/09/2015
1505821-003A	TB-1-20150508-01	5/8/2015 12:00:00AM	Aqueous	PP-VOLATILES		5/13/2015 11:30:00 AM	05/13/2015

Client: ERM-Southeast
Project Name: AGLC Augusta
Workorder: 1505821

ANALYTICAL QC SUMMARY REPORT

BatchID: 207354

Sample ID: **MB-207354** Client ID: Units: **mg/L** Prep Date: **05/13/2015** Run No: **291863**
SampleType: **MBLK** TestCode: **Total Metals by ICP E200.7** BatchID: **207354** Analysis Date: **05/14/2015** Seq No: **6211634**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.0600									
Barium	BRL	0.0100									
Chromium	BRL	0.0100									
Copper	BRL	0.0250									
Nickel	BRL	0.0200									

Sample ID: **LCS-207354** Client ID: Units: **mg/L** Prep Date: **05/13/2015** Run No: **291863**
SampleType: **LCS** TestCode: **Total Metals by ICP E200.7** BatchID: **207354** Analysis Date: **05/14/2015** Seq No: **6211635**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.107	0.0600	1.000		111	85	115				
Barium	1.070	0.0100	1.000		107	85	115				
Chromium	1.104	0.0100	1.000		110	85	115				
Copper	1.070	0.0250	1.000		107	85	115				
Nickel	1.075	0.0200	1.000		108	85	115				

Sample ID: **1505917-001AMS** Client ID: Units: **mg/L** Prep Date: **05/13/2015** Run No: **291863**
SampleType: **MS** TestCode: **Total Metals by ICP E200.7** BatchID: **207354** Analysis Date: **05/14/2015** Seq No: **6211642**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.035	0.0600	1.000	0.01215	102	70	130				
Barium	0.9966	0.0100	1.000	0.003013	99.4	70	130				
Chromium	1.050	0.0100	1.000	0.001813	105	70	130				
Copper	0.9937	0.0250	1.000	0.005787	98.8	70	130				
Nickel	1.510	0.0200	1.000	0.5153	99.4	70	130				

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: ERM-Southeast
Project Name: AGLC Augusta
Workorder: 1505821

ANALYTICAL QC SUMMARY REPORT

BatchID: **207354**

Sample ID: **1505C05-002AMS** Client ID: Units: **mg/L** Prep Date: **05/13/2015** Run No: **291863**
SampleType: **MS** TestCode: **Total Metals by ICP E200.7** BatchID: **207354** Analysis Date: **05/14/2015** Seq No: **6211637**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.073	0.0600	1.000	0.007963	106	70	130				
Barium	1.019	0.0100	1.000	0.001820	102	70	130				
Chromium	1.079	0.0100	1.000	0.002848	108	70	130				
Copper	1.010	0.0250	1.000	0.004407	101	70	130				
Nickel	1.126	0.0200	1.000	0.09004	104	70	130				

Sample ID: **1505C05-002AMSD** Client ID: Units: **mg/L** Prep Date: **05/13/2015** Run No: **291863**
SampleType: **MSD** TestCode: **Total Metals by ICP E200.7** BatchID: **207354** Analysis Date: **05/14/2015** Seq No: **6211638**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	1.054	0.0600	1.000	0.007963	105	70	130	1.073	1.80	20	
Barium	0.9893	0.0100	1.000	0.001820	98.7	70	130	1.019	3.00	20	
Chromium	1.055	0.0100	1.000	0.002848	105	70	130	1.079	2.27	20	
Copper	0.9864	0.0250	1.000	0.004407	98.2	70	130	1.010	2.40	20	
Nickel	1.096	0.0200	1.000	0.09004	101	70	130	1.126	2.73	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: ERM-Southeast
Project Name: AGLC Augusta
Workorder: 1505821

ANALYTICAL QC SUMMARY REPORT

BatchID: 207369

Sample ID: **MB-207369** Client ID: Units: **ug/L** Prep Date: **05/13/2015** Run No: **291748**
SampleType: **MBLK** TestCode: **PRIORITY POLLUTANT-VOLATILES E624** BatchID: **207369** Analysis Date: **05/13/2015** Seq No: **6209141**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	5.0						21.19			
Ethylbenzene	BRL	5.0						21.26			
m,p-Xylene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0						21.34			
Surr: 4-Bromofluorobenzene	44.70	0	50.00		89.4	70.6	123	53.79			
Surr: Dibromofluoromethane	50.83	0	50.00		102	78.7	124	50.75			
Surr: Toluene-d8	49.93	0	50.00		99.9	81.3	120	52.86			

Sample ID: **LCS-207369** Client ID: Units: **ug/L** Prep Date: **05/13/2015** Run No: **291748**
SampleType: **LCS** TestCode: **PRIORITY POLLUTANT-VOLATILES E624** BatchID: **207369** Analysis Date: **05/13/2015** Seq No: **6209140**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	20.71	5.0	20.00		104	64	136	21.19			
Ethylbenzene	19.60	5.0	20.00		98.0	59	141	21.26			
m,p-Xylene	41.51	5.0	40.00		104	69.5	123				
o-Xylene	19.62	5.0	20.00		98.1	67.9	119				
Toluene	19.78	5.0	20.00		98.9	75	126	21.34			
Surr: 4-Bromofluorobenzene	51.19	0	50.00		102	70.6	123	53.79			
Surr: Dibromofluoromethane	53.17	0	50.00		106	78.7	124	50.75			
Surr: Toluene-d8	52.98	0	50.00		106	81.3	120	52.86			

Sample ID: **1505821-001AMS** Client ID: **EFF-G-20150508-01** Units: **ug/L** Prep Date: **05/13/2015** Run No: **291748**
SampleType: **MS** TestCode: **PRIORITY POLLUTANT-VOLATILES E624** BatchID: **207369** Analysis Date: **05/13/2015** Seq No: **6209709**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	21.73	5.0	20.00	0.7300	105	37	151				
Ethylbenzene	21.08	5.0	20.00		105	37	162				

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: ERM-Southeast
Project Name: AGLC Augusta
Workorder: 1505821

ANALYTICAL QC SUMMARY REPORT

BatchID: **207369**

Sample ID: **1505821-001AMS** Client ID: **EFF-G-20150508-01** Units: **ug/L** Prep Date: **05/13/2015** Run No: **291748**
SampleType: **MS** TestCode: **PRIORITY POLLUTANT-VOLATILES E624** BatchID: **207369** Analysis Date: **05/13/2015** Seq No: **6209709**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
m,p-Xylene	44.47	5.0	40.00		111	71.5	145				
o-Xylene	20.74	5.0	20.00		104	72	140				
Toluene	21.04	5.0	20.00		105	47	150				
Surr: 4-Bromofluorobenzene	53.82	0	50.00		108	70.6	123				
Surr: Dibromofluoromethane	51.49	0	50.00		103	78.7	124				
Surr: Toluene-d8	54.22	0	50.00		108	81.3	120				

Sample ID: **1505821-001AMSD** Client ID: **EFF-G-20150508-01** Units: **ug/L** Prep Date: **05/13/2015** Run No: **291748**
SampleType: **MSD** TestCode: **PRIORITY POLLUTANT-VOLATILES E624** BatchID: **207369** Analysis Date: **05/13/2015** Seq No: **6209710**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	21.72	5.0	20.00	0.7300	105	37	151	21.73	0.046	19.4	
Ethylbenzene	19.93	5.0	20.00		99.6	37	162	21.08	5.61	19.1	
m,p-Xylene	41.30	5.0	40.00		103	71.5	145	44.47	7.39	20.4	
o-Xylene	19.74	5.0	20.00		98.7	72	140	20.74	4.94	18.8	
Toluene	20.87	5.0	20.00		104	47	150	21.04	0.811	19.7	
Surr: 4-Bromofluorobenzene	52.14	0	50.00		104	70.6	123	53.82	0	0	
Surr: Dibromofluoromethane	52.50	0	50.00		105	78.7	124	51.49	0	0	
Surr: Toluene-d8	53.69	0	50.00		107	81.3	120	54.22	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: ERM-Southeast
Project Name: AGLC Augusta
Workorder: 1505821

ANALYTICAL QC SUMMARY REPORT

BatchID: R291505

Sample ID: **LCS-R291505** Client ID: Units: **pH Units** Prep Date: Run No: **291505**
SampleType: **LCS** TestCode: **Hydrogen Ion (pH) by SM4500 H+ B** BatchID: **R291505** Analysis Date: **05/11/2015** Seq No: **6203270**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	7.010	0.0100	7.000		100	90	110				

Sample ID: **1505568-001ADUP** Client ID: Units: **pH Units** Prep Date: Run No: **291505**
SampleType: **DUP** TestCode: **Hydrogen Ion (pH) by SM4500 H+ B** BatchID: **R291505** Analysis Date: **05/11/2015** Seq No: **6203292**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	8.300	0.0100						8.280	0.241	20	H

Sample ID: **1505821-001BDUP** Client ID: **EFF-G-20150508-01** Units: **pH Units** Prep Date: Run No: **291505**
SampleType: **DUP** TestCode: **Hydrogen Ion (pH) by SM4500 H+ B** BatchID: **R291505** Analysis Date: **05/11/2015** Seq No: **6203295**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	7.050	0.0100						7.040	0.142	20	H

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: 21-May-15

Client: ERM-Southeast
Project Name: AGLC Augusta
Workorder: 1505821

ANALYTICAL QC SUMMARY REPORT

BatchID: R291672

Sample ID: **MB-R291672** Client ID: Units: **mg/L** Prep Date: Run No: **291672**
SampleType: **MBLK** TestCode: **Hexavalent Chromium** **SM3500-Cr B** BatchID: **R291672** Analysis Date: **05/09/2015** Seq No: **6207158**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	BRL	0.010									

Sample ID: **LCS-R291672** Client ID: Units: **mg/L** Prep Date: Run No: **291672**
SampleType: **LCS** TestCode: **Hexavalent Chromium** **SM3500-Cr B** BatchID: **R291672** Analysis Date: **05/09/2015** Seq No: **6207159**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4883	0.010	0.5000		97.7	90	110				

Sample ID: **1505821-002BMS** Client ID: **EFF-C-20150508-01** Units: **mg/L** Prep Date: Run No: **291672**
SampleType: **MS** TestCode: **Hexavalent Chromium** **SM3500-Cr B** BatchID: **R291672** Analysis Date: **05/09/2015** Seq No: **6207161**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4836	0.010	0.5000	0.003500	96.0	85	115				

Sample ID: **1505821-002BMSD** Client ID: **EFF-C-20150508-01** Units: **mg/L** Prep Date: Run No: **291672**
SampleType: **MSD** TestCode: **Hexavalent Chromium** **SM3500-Cr B** BatchID: **R291672** Analysis Date: **05/09/2015** Seq No: **6207162**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4937	0.010	0.5000	0.003500	98.0	85	115	0.4836	2.07	30	

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.

June 11, 2015

Greg Jirak
ERM-Southeast
3200 Windy Hill Rd
Atlanta GA 30339

TEL: (678) 486-2700
FAX: (404) 745-0103

RE: AGLC Augusta Effluent

Dear Greg Jirak: Order No: 1506338

Analytical Environmental Services, Inc. received 3 samples on 6/3/2015 10:40:00 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' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

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.

Mirzeta Kararic

Mirzeta Kararic
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3080 Presidential Drive, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1506338

Date: _____ Page _____ of _____

COMPANY: ERM

ADDRESS: 3200 Windy Hill Rd SE Suite 1500W Atlanta, GA 30339

PHONE: 678-486-2700

FAX:

SAMPLED BY: W. Virgo / B. Mitchell

SIGNATURE:

ANALYSIS REQUESTED: BTEX, PH, Ba, Sb, Cr, Cu, Ni, Hex Cr, B3-2 Ethyl Phthalate

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

PRESERVATION (See codes)

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	BTEX (H)	PH (NA)	Ba (N)	Sb,Cr,Cu,Ni (N)	Hex Cr (NA)	B3-2 Ethyl Phthalate (NA)	REMARKS	No # of Containers
1	EFF-G-20150603-01	6/3/15	0830	X		GW	2	1	1			2		~~4~~ 6
2	EFF-C-20150603-01	↓	0830		X	GW				1	1			2
3	TB-1-20150603-01	↓	—			W	2							2
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	6/3/15 10:40	1: Cataya Reeves	6/3/15 10:40
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: AGLC Augusta Effluent
PROJECT #: 028096 PH 046
SITE ADDRESS: Augusta, GA
SEND REPORT TO: Greg Sirak
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers: 8/10

Turnaround Time 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? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

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

Client: ERM-Southeast
Project: AGLC Augusta Effluent
Lab ID: 1506338

Case Narrative

pH Analysis by Method SM4500 H+ B:

Sample for pH analysis by Method SM4500 H+ B was received and analyzed outside of the holding time requirement of "immediate or 15 minutes".

Volatile Organic Compounds Analysis by Method 624:

m,p-Xylene values for the QC samples 1506442-001AMS/MSD are "E" qualified indicating estimated values over linear calibration range due to the level of target analyte present in the unspiked sample.

Analytical Environmental Services, Inc **Date:** 11-Jun-15

Client:	ERM-Southeast	**Client Sample ID:**	EFF-G-20150603
Project Name:	AGLC Augusta Effluent	**Collection Date:**	6/3/2015 8:30:00 AM
Lab ID:	1506338-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP E200.7				**(E200.7)**				
Barium	0.821	0.0100		mg/L	208444	1	06/09/2015 22:06	TA
PRIORITY POLLUTANT-VOLATILES E624				**(E624)**				
Benzene	BRL	5.0		ug/L	208495	1	06/06/2015 00:56	AR
Ethylbenzene	BRL	5.0		ug/L	208495	1	06/06/2015 00:56	AR
m,p-Xylene	BRL	5.0		ug/L	208495	1	06/06/2015 00:56	AR
o-Xylene	BRL	5.0		ug/L	208495	1	06/06/2015 00:56	AR
Toluene	BRL	5.0		ug/L	208495	1	06/06/2015 00:56	AR
Surr: 4-Bromofluorobenzene	76.6	70.6-123		%REC	208495	1	06/06/2015 00:56	AR
Surr: Dibromofluoromethane	101	78.7-124		%REC	208495	1	06/06/2015 00:56	AR
Surr: Toluene-d8	93.7	81.3-120		%REC	208495	1	06/06/2015 00:56	AR
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625				**(E625)**				
Bis(2-ethylhexyl)phthalate	BRL	10		ug/L	208374	1	06/08/2015 21:11	YH
Surr: 2,4,6-Tribromophenol	94	52-133		%REC	208374	1	06/08/2015 21:11	YH
Surr: 2-Fluorobiphenyl	82.6	50-121		%REC	208374	1	06/08/2015 21:11	YH
Surr: 2-Fluorophenol	50.8	27.5-120		%REC	208374	1	06/08/2015 21:11	YH
Surr: 4-Terphenyl-d14	100	46.3-137		%REC	208374	1	06/08/2015 21:11	YH
Surr: Nitrobenzene-d5	76.7	41.2-121		%REC	208374	1	06/08/2015 21:11	YH
Surr: Phenol-d5	36.5	14.3-120		%REC	208374	1	06/08/2015 21:11	YH
Hydrogen Ion (pH) by SM4500 H+ B								
pH	6.93	0.0100	H	pH Units	R293268	1	06/05/2015 09:50	JS

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:** 11-Jun-15

Client:	ERM-Southeast	**Client Sample ID:**	EFF-C-20150603-01
Project Name:	AGLC Augusta Effluent	**Collection Date:**	6/3/2015 8:30:00 AM
Lab ID:	1506338-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP E200.7				**(E200.7)**				
Antimony	BRL	0.0600		mg/L	208444	1	06/09/2015 22:09	TA
Chromium	BRL	0.0100		mg/L	208444	1	06/09/2015 22:09	TA
Copper	BRL	0.0250		mg/L	208444	1	06/09/2015 22:09	TA
Nickel	BRL	0.0200		mg/L	208444	1	06/09/2015 22:09	TA
Hexavalent Chromium SM3500-Cr B								
Chromium, Hexavalent	BRL	0.010		mg/L	R293073	1	06/03/2015 14:15	OM

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:** 11-Jun-15

Client:	ERM-Southeast	**Client Sample ID:**	TB-1-20150603-01
Project Name:	AGLC Augusta Effluent	**Collection Date:**	6/3/2015
Lab ID:	1506338-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
PRIORITY POLLUTANT-VOLATILES E624				**(E624)**				
Benzene	BRL	5.0		ug/L	208495	1	06/05/2015 19:19	AR
Ethylbenzene	BRL	5.0		ug/L	208495	1	06/05/2015 19:19	AR
m,p-Xylene	BRL	5.0		ug/L	208495	1	06/05/2015 19:19	AR
o-Xylene	BRL	5.0		ug/L	208495	1	06/05/2015 19:19	AR
Toluene	BRL	5.0		ug/L	208495	1	06/05/2015 19:19	AR
Surr: 4-Bromofluorobenzene	78.9	70.6-123		%REC	208495	1	06/05/2015 19:19	AR
Surr: Dibromofluoromethane	108	78.7-124		%REC	208495	1	06/05/2015 19:19	AR
Surr: Toluene-d8	92.7	81.3-120		%REC	208495	1	06/05/2015 19:19	AR

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.

Sample/Cooler Receipt Checklist

Client ERM Work Order Number 1506338

Checklist completed by [signature] 6/3/15
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 3.2°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes __ No ✓

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by [signature]

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Analytical Environmental Services, Inc

Date: 11-Jun-15

Client: ERM-Southeast
Project Name: AGLC Augusta Effluent
Lab Order: 1506338

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1506338-001A	EFF-G-20150603	6/3/2015 8:30:00AM	Groundwater	PP-VOLATILES		6/4/2015 4:33:00 PM	06/06/2015
1506338-001B	EFF-G-20150603	6/3/2015 8:30:00AM	Groundwater	Hydrogen Ion (pH) by SM4500 H+ B			06/05/2015
1506338-001C	EFF-G-20150603	6/3/2015 8:30:00AM	Groundwater	Total Metals by ICP		6/5/2015 5:07:00 PM	06/09/2015
1506338-001D	EFF-G-20150603	6/3/2015 8:30:00AM	Groundwater	PP-SEMIVOLATILE ORGANICS		6/5/2015 11:00:00 AM	06/08/2015
1506338-002A	EFF-C-20150603-01	6/3/2015 8:30:00AM	Groundwater	Total Metals by ICP		6/5/2015 5:07:00 PM	06/09/2015
1506338-002B	EFF-C-20150603-01	6/3/2015 8:30:00AM	Groundwater	Hexavalent Chromium			06/03/2015
1506338-003A	TB-1-20150603-01	6/3/2015 12:00:00AM	Aqueous	PP-VOLATILES		6/4/2015 4:33:00 PM	06/05/2015

Client: ERM-Southeast
Project Name: AGLC Augusta Effluent
Workorder: 1506338

ANALYTICAL QC SUMMARY REPORT

BatchID: 208374

Sample ID: **MB-208374** Client ID: Units: **ug/L** Prep Date: **06/05/2015** Run No: **293371**
SampleType: **MBLK** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **208374** Analysis Date: **06/08/2015** Seq No: **6248794**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bis(2-ethylhexyl)phthalate	BRL	10									
Surr: 2,4,6-Tribromophenol	85.30	0	100.0		85.3	52	133				
Surr: 2-Fluorobiphenyl	37.18	0	50.00		74.4	50	121				
Surr: 2-Fluorophenol	50.15	0	100.0		50.2	27.5	120				
Surr: 4-Terphenyl-d14	42.42	0	50.00		84.8	46.3	137				
Surr: Nitrobenzene-d5	36.62	0	50.00		73.2	41.2	121				
Surr: Phenol-d5	37.18	0	100.0		37.2	14.3	120				

Sample ID: **LCS-208374** Client ID: Units: **ug/L** Prep Date: **06/05/2015** Run No: **293371**
SampleType: **LCS** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **208374** Analysis Date: **06/08/2015** Seq No: **6248795**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bis(2-ethylhexyl)phthalate	100.9	10	100.0		101	28.9	136.88				
Surr: 2,4,6-Tribromophenol	114.2	0	100.0		114	52	133				
Surr: 2-Fluorobiphenyl	53.36	0	50.00		107	50	121				
Surr: 2-Fluorophenol	66.53	0	100.0		66.5	27.5	120				
Surr: 4-Terphenyl-d14	54.50	0	50.00		109	46.3	137				
Surr: Nitrobenzene-d5	52.91	0	50.00		106	41.2	121				
Surr: Phenol-d5	45.66	0	100.0		45.7	14.3	120				

Sample ID: **1506389-001BMS** Client ID: Units: **ug/L** Prep Date: **06/05/2015** Run No: **293245**
SampleType: **MS** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **208374** Analysis Date: **06/05/2015** Seq No: **6248181**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bis(2-ethylhexyl)phthalate	79.10	50	100.0		79.1	8	158				
Surr: 2,4,6-Tribromophenol	55.95	0	100.0		56.0	52	133				
Surr: 2-Fluorobiphenyl	35.10	0	50.00		70.2	50	121				
Surr: 2-Fluorophenol	48.85	0	100.0		48.8	27.5	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: ERM-Southeast
Project Name: AGLC Augusta Effluent
Workorder: 1506338

ANALYTICAL QC SUMMARY REPORT

BatchID: 208374

Sample ID: **1506389-001BMS** Client ID: Units: **ug/L** Prep Date: **06/05/2015** Run No: **293245**
SampleType: **MS** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **208374** Analysis Date: **06/05/2015** Seq No: **6248181**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Terphenyl-d14	32.90	0	50.00		65.8	46.3	137				
Surr: Nitrobenzene-d5	38.15	0	50.00		76.3	41.2	121				
Surr: Phenol-d5	53.80	0	100.0		53.8	14.3	120				

Sample ID: **1506389-001BMSD** Client ID: Units: **ug/L** Prep Date: **06/05/2015** Run No: **293245**
SampleType: **MSD** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **208374** Analysis Date: **06/05/2015** Seq No: **6248184**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bis(2-ethylhexyl)phthalate	76.15	50	100.0		76.2	8	158	79.10	3.80	41.1	
Surr: 2,4,6-Tribromophenol	56.75	0	100.0		56.8	52	133	55.95	0	0	
Surr: 2-Fluorobiphenyl	36.25	0	50.00		72.5	50	121	35.10	0	0	
Surr: 2-Fluorophenol	55.10	0	100.0		55.1	27.5	120	48.85	0	0	
Surr: 4-Terphenyl-d14	32.75	0	50.00		65.5	46.3	137	32.90	0	0	
Surr: Nitrobenzene-d5	42.10	0	50.00		84.2	41.2	121	38.15	0	0	
Surr: Phenol-d5	52.15	0	100.0		52.2	14.3	120	53.80	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: ERM-Southeast
Project Name: AGLC Augusta Effluent
Workorder: 1506338

ANALYTICAL QC SUMMARY REPORT

BatchID: **208444**

Sample ID: **MB-208444** Client ID: Units: **mg/L** Prep Date: **06/05/2015** Run No: **293505**
SampleType: **MBLK** TestCode: **Total Metals by ICP E200.7** BatchID: **208444** Analysis Date: **06/09/2015** Seq No: **6252458**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	BRL	0.0600									
Barium	BRL	0.0100									
Chromium	BRL	0.0100									
Copper	BRL	0.0250									
Nickel	BRL	0.0200									

Sample ID: **LCS-208444** Client ID: Units: **mg/L** Prep Date: **06/05/2015** Run No: **293505**
SampleType: **LCS** TestCode: **Total Metals by ICP E200.7** BatchID: **208444** Analysis Date: **06/09/2015** Seq No: **6252459**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9361	0.0600	1.000		93.6	85	115				
Barium	0.9240	0.0100	1.000		92.4	85	115				
Chromium	0.9048	0.0100	1.000	0.0008100	90.4	85	115				
Copper	0.9285	0.0250	1.000		92.8	85	115				
Nickel	0.9242	0.0200	1.000	0.001170	92.3	85	115				

Sample ID: **1506137-002AMS** Client ID: Units: **mg/L** Prep Date: **06/05/2015** Run No: **293505**
SampleType: **MS** TestCode: **Total Metals by ICP E200.7** BatchID: **208444** Analysis Date: **06/09/2015** Seq No: **6252461**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.8966	0.0600	1.000	0.008790	88.8	70	130				
Barium	0.8495	0.0100	1.000	0.001620	84.8	70	130				
Chromium	0.8447	0.0100	1.000	0.004080	84.1	70	130				
Copper	0.9939	0.0250	1.000	0.07060	92.3	70	130				
Nickel	0.8418	0.0200	1.000	0.006190	83.6	70	130				

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: ERM-Southeast
Project Name: AGLC Augusta Effluent
Workorder: 1506338

ANALYTICAL QC SUMMARY REPORT

BatchID: **208444**

Sample ID: **1506263-002AMS** Client ID: Units: **mg/L** Prep Date: **06/05/2015** Run No: **293505**
SampleType: **MS** TestCode: **Total Metals by ICP E200.7** BatchID: **208444** Analysis Date: **06/09/2015** Seq No: **6252474**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9577	0.0600	1.000		95.8	70	130				
Barium	0.9511	0.0100	1.000	0.01609	93.5	70	130				
Chromium	0.9217	0.0100	1.000	0.0009900	92.1	70	130				
Copper	0.9451	0.0250	1.000		94.5	70	130				
Nickel	0.9266	0.0200	1.000	0.001290	92.5	70	130				

Sample ID: **1506137-002AMSD** Client ID: Units: **mg/L** Prep Date: **06/05/2015** Run No: **293505**
SampleType: **MSD** TestCode: **Total Metals by ICP E200.7** BatchID: **208444** Analysis Date: **06/09/2015** Seq No: **6252462**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.9121	0.0600	1.000	0.008790	90.3	70	130	0.8966	1.72	20	
Barium	0.8554	0.0100	1.000	0.001620	85.4	70	130	0.8495	0.691	20	
Chromium	0.8506	0.0100	1.000	0.004080	84.6	70	130	0.8447	0.685	20	
Copper	1.005	0.0250	1.000	0.07060	93.4	70	130	0.9939	1.12	20	
Nickel	0.8292	0.0200	1.000	0.006190	82.3	70	130	0.8418	1.51	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: ERM-Southeast
Project Name: AGLC Augusta Effluent
Workorder: 1506338

ANALYTICAL QC SUMMARY REPORT

BatchID: **208495**

Sample ID: **MB-208495** Client ID: Units: **ug/L** Prep Date: **06/04/2015** Run No: **293199**
SampleType: **MBLK** TestCode: **PRIORITY POLLUTANT-VOLATILES E624** BatchID: **208495** Analysis Date: **06/04/2015** Seq No: **6249183**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	37.39	0	50.00		74.8	70.6	123				
Surr: Dibromofluoromethane	50.61	0	50.00		101	78.7	124				
Surr: Toluene-d8	48.20	0	50.00		96.4	81.3	120				

Sample ID: **LCS-208495** Client ID: Units: **ug/L** Prep Date: **06/04/2015** Run No: **293199**
SampleType: **LCS** TestCode: **PRIORITY POLLUTANT-VOLATILES E624** BatchID: **208495** Analysis Date: **06/04/2015** Seq No: **6249182**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	22.42	5.0	20.00		112	64	136				
Ethylbenzene	20.09	5.0	20.00		100	59	141				
m,p-Xylene	42.15	5.0	40.00		105	69.5	123				
o-Xylene	18.63	5.0	20.00		93.2	67.9	119				
Toluene	21.64	5.0	20.00		108	75	126				
Surr: 4-Bromofluorobenzene	44.59	0	50.00		89.2	70.6	123				
Surr: Dibromofluoromethane	52.47	0	50.00		105	78.7	124				
Surr: Toluene-d8	52.39	0	50.00		105	81.3	120				

Sample ID: **1506442-001AMS** Client ID: Units: **ug/L** Prep Date: **06/04/2015** Run No: **293199**
SampleType: **MS** TestCode: **PRIORITY POLLUTANT-VOLATILES E624** BatchID: **208495** Analysis Date: **06/05/2015** Seq No: **6249185**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	11820	2500	10000		118	37	151				
Ethylbenzene	10020	2500	10000		100	37	162				

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: ERM-Southeast
Project Name: AGLC Augusta Effluent
Workorder: 1506338

ANALYTICAL QC SUMMARY REPORT

BatchID: 208495

Sample ID: **1506442-001AMS** Client ID: Units: **ug/L** Prep Date: **06/04/2015** Run No: **293199**
SampleType: **MS** TestCode: **PRIORITY POLLUTANT-VOLATILES E624** BatchID: **208495** Analysis Date: **06/05/2015** Seq No: **6249185**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
m,p-Xylene	100300	2500	20000	82680	87.9	71.5	145				E
o-Xylene	10180	2500	10000		102	72	140				
Toluene	11090	2500	10000		111	47	150				
Surr: 4-Bromofluorobenzene	23420	0	25000		93.7	70.6	123				
Surr: Dibromofluoromethane	25640	0	25000		103	78.7	124				
Surr: Toluene-d8	25180	0	25000		101	81.3	120				

Sample ID: **1506442-001AMSD** Client ID: Units: **ug/L** Prep Date: **06/04/2015** Run No: **293199**
SampleType: **MSD** TestCode: **PRIORITY POLLUTANT-VOLATILES E624** BatchID: **208495** Analysis Date: **06/05/2015** Seq No: **6249186**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	11590	2500	10000		116	37	151	11820	1.97	19.4	
Ethylbenzene	10260	2500	10000		103	37	162	10020	2.32	19.1	
m,p-Xylene	100400	2500	20000	82680	88.6	71.5	145	100300	0.145	20.4	E
o-Xylene	10230	2500	10000		102	72	140	10180	0.441	18.8	
Toluene	11200	2500	10000		112	47	150	11090	0.987	19.7	
Surr: 4-Bromofluorobenzene	24110	0	25000		96.4	70.6	123	23420	0	0	
Surr: Dibromofluoromethane	25720	0	25000		103	78.7	124	25640	0	0	
Surr: Toluene-d8	25030	0	25000		100	81.3	120	25180	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: ERM-Southeast
Project Name: AGLC Augusta Effluent
Workorder: 1506338

ANALYTICAL QC SUMMARY REPORT

BatchID: **R293073**

Sample ID: **MB-R293073** Client ID: Units: **mg/L** Prep Date: Run No: **293073**
SampleType: **MBLK** TestCode: **Hexavalent Chromium** **SM3500-Cr B** BatchID: **R293073** Analysis Date: **06/03/2015** Seq No: **6241328**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	BRL	0.010									

Sample ID: **LCS-R293073** Client ID: Units: **mg/L** Prep Date: Run No: **293073**
SampleType: **LCS** TestCode: **Hexavalent Chromium** **SM3500-Cr B** BatchID: **R293073** Analysis Date: **06/03/2015** Seq No: **6241329**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4948	0.010	0.5000		99.0	90	110				

Sample ID: **1506338-002BMS** Client ID: **EFF-C-20150603-01** Units: **mg/L** Prep Date: Run No: **293073**
SampleType: **MS** TestCode: **Hexavalent Chromium** **SM3500-Cr B** BatchID: **R293073** Analysis Date: **06/03/2015** Seq No: **6241331**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4954	0.010	0.5000		99.1	85	115				

Sample ID: **1506338-002BMSD** Client ID: **EFF-C-20150603-01** Units: **mg/L** Prep Date: Run No: **293073**
SampleType: **MSD** TestCode: **Hexavalent Chromium** **SM3500-Cr B** BatchID: **R293073** Analysis Date: **06/03/2015** Seq No: **6241332**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.4889	0.010	0.5000		97.8	85	115	0.4954	1.32	30	

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: ERM-Southeast
Project Name: AGLC Augusta Effluent
Workorder: 1506338

ANALYTICAL QC SUMMARY REPORT

BatchID: **R293268**

Sample ID: **LCS-R293268** Client ID: Units: **pH Units** Prep Date: Run No: **293268**
SampleType: **LCS** TestCode: **Hydrogen Ion (pH) by SM4500 H+ B** BatchID: **R293268** Analysis Date: **06/05/2015** Seq No: **6246360**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	6.980	0.0100	7.000		99.7	90	110				

Sample ID: **1505Q25-001DDUP** Client ID: Units: **pH Units** Prep Date: Run No: **293268**
SampleType: **DUP** TestCode: **Hydrogen Ion (pH) by SM4500 H+ B** BatchID: **R293268** Analysis Date: **06/05/2015** Seq No: **6246377**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	7.410	0.0100						7.380	0.406	20	H

Sample ID: **1506543-001DDUP** Client ID: Units: **pH Units** Prep Date: Run No: **293268**
SampleType: **DUP** TestCode: **Hydrogen Ion (pH) by SM4500 H+ B** BatchID: **R293268** Analysis Date: **06/05/2015** Seq No: **6246378**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	7.140	0.0100						7.090	0.703	20	H

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

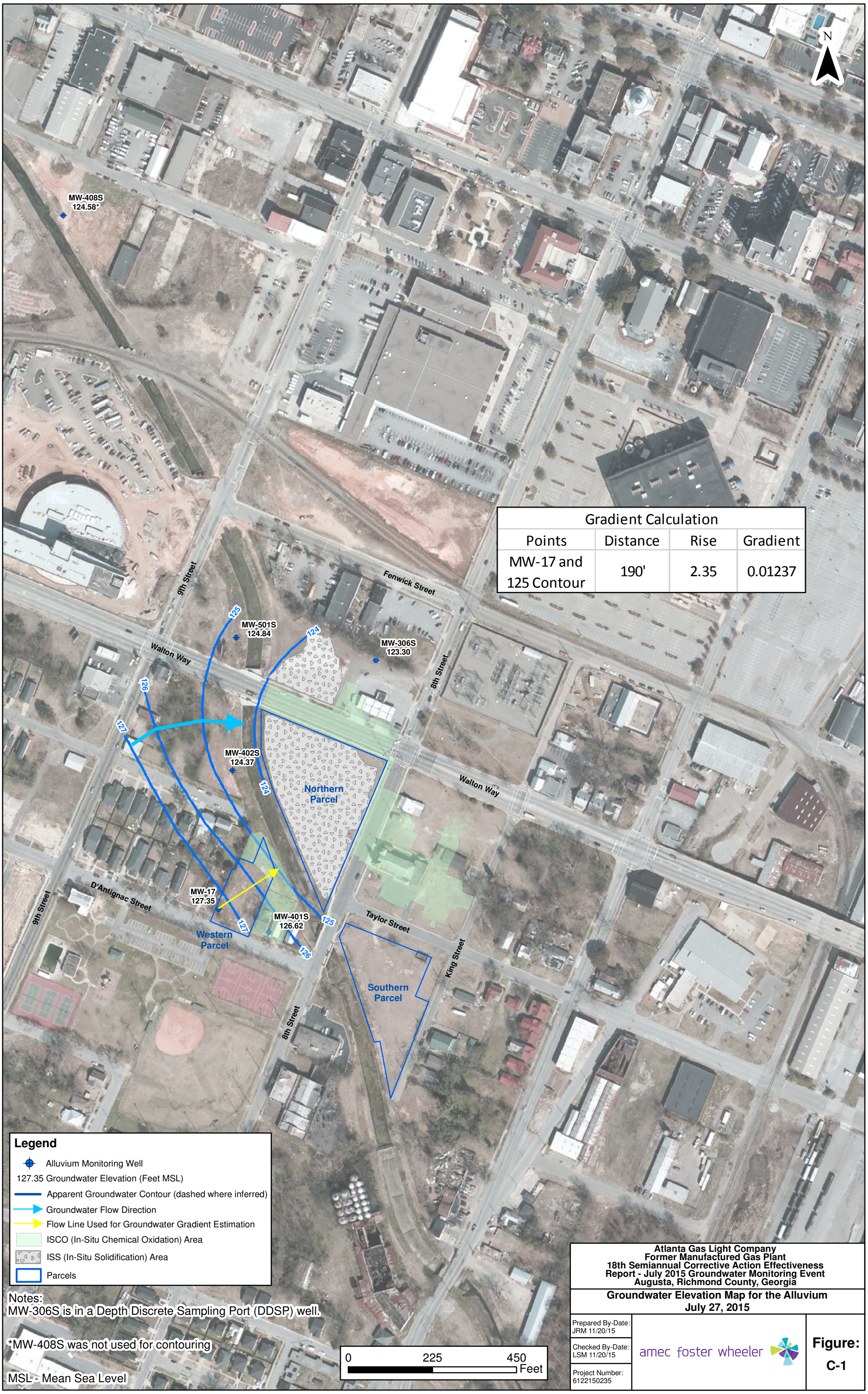
Appendix C
Seepage Velocity Calculations
Atlanta Gas Light Company
Former Manufactured Gas Plant Site

Hydrogeologic Unit	Hydraulic Conductivity (cm/sec)	Porosity (unitless)	July 27, 2015		Monitoring wells used for gradient calculations
			Gradient	Velocity (ft/day)	
Alluvium	1.170E-03	3.90E-01	1.24E-02	1.1E-01	MW-17 & 125 contour
Galliard	1.500E-04	4.50E-01	1.18E-02	1.1E-02	MW-207; MW-602; MW-309D
Galliard	1.500E-04	4.50E-01	1.74E-03	1.6E-03	MW-21; MW-25; MW-203
Galliard	1.500E-04	4.50E-01	1.04E-02	9.8E-03	MW-19; MW-205; MW-206
Saprolite	8.980E-06	5.30E-01	2.72E-03	1.3E-04	MW-214; MW-306SAP; MW-310SAP
Bedrock*	9.348E-04	1.42E-02	4.81E-03	9.0E-01	MW-318; MW-325; MW-513BR
Bedrock*	9.348E-04	1.42E-02	1.46E-03	2.7E-01	MW-313; MW-309BR; MW-503BR
Bedrock*	9.348E-04	6.00E-01	4.81E-03	2.1E-02	MW-318; MW-325; MW-513BR
Bedrock*	9.348E-04	6.00E-01	1.46E-03	6.4E-03	MW-313; MW-309BR; MW-503BR

*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 calcuations are average porosities from RETEC, 2003 Remedial Investigation
Vs=Ki/n

where:
Vs=seepage velocity (velocity)
K=horizontal hydraulic conductivity
i=horizontal hydraulic gradient (gradient)
n=porosity

Prepared by/date: JMQ 10/29/15
Checked by/date: RNQ 11/25/2015



Gradient Calculation

Points	Distance	Rise	Gradient
MW-17 and 125 Contour	190'	2.35	0.01237

Notes:
MW-306S is in a Depth Discrete Sampling Port (DDSP) well.

*MW-408S was not used for contouring

MSL - Mean Sea Level

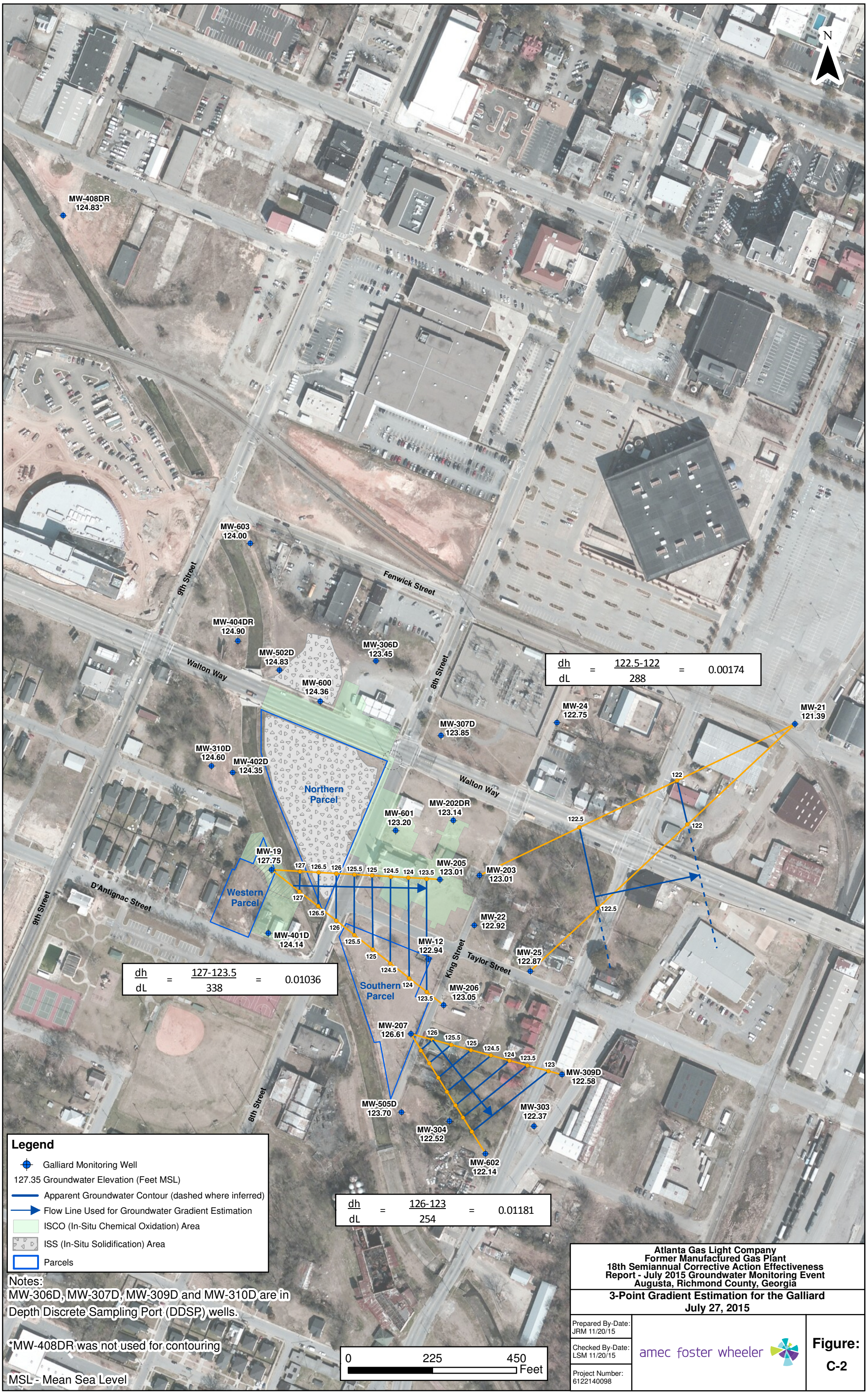
Atlanta Gas Light Company
Former Manufactured Gas Plant
18th Semiannual Corrective Action Effectiveness Report - July 2015 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

Groundwater Elevation Map for the Alluvium
July 27, 2015

Prepared By-Date: JRM 11/20/15
Checked By-Date: LSM 11/20/15
Project Number: 6122150235

amec foster wheeler

Figure: C-1



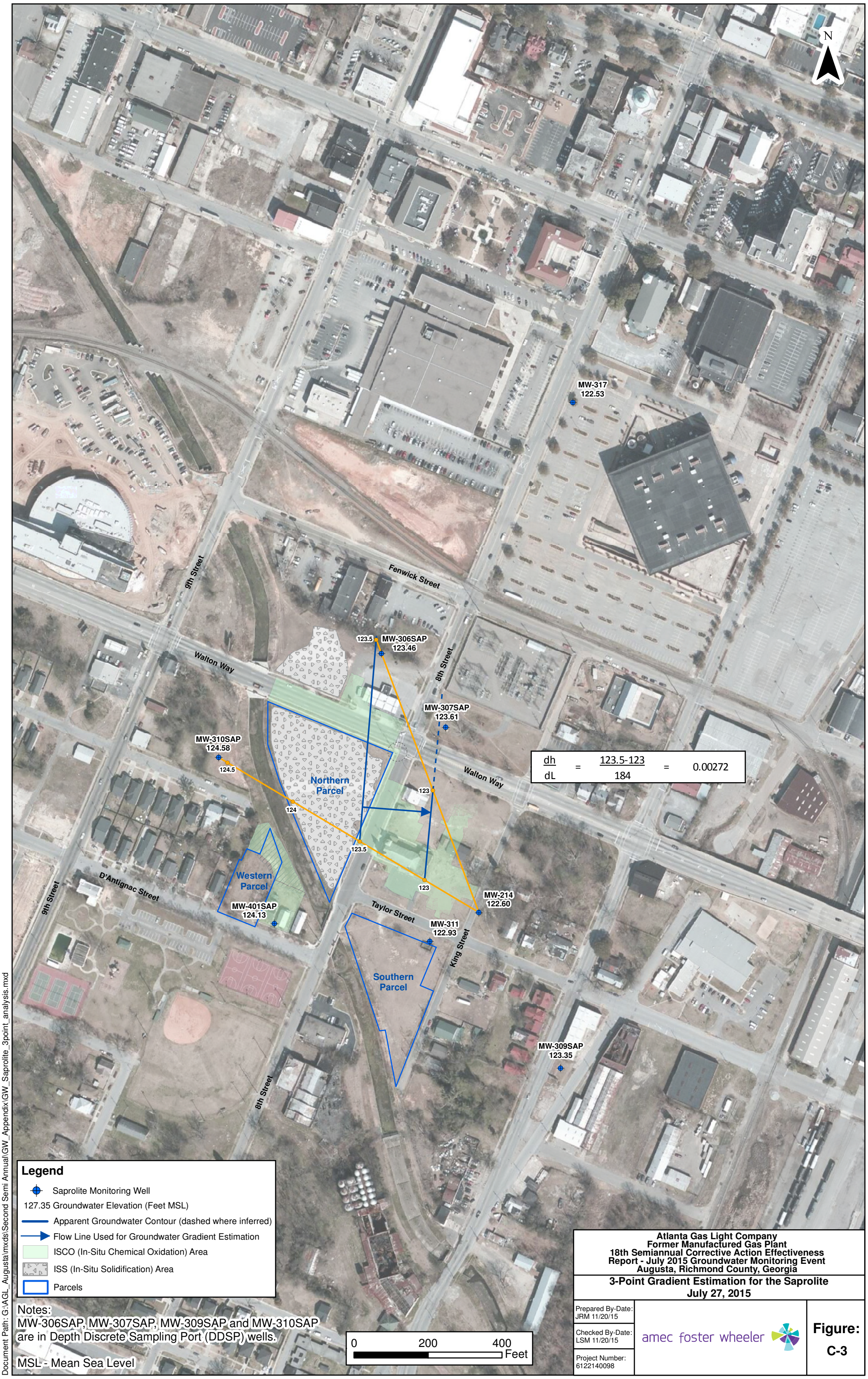
Atlanta Gas Light Company
Former Manufactured Gas Plant
18th Semiannual Corrective Action Effectiveness Report - July 2015 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

3-Point Gradient Estimation for the Galliard
July 27, 2015

Prepared By-Date: JRM 11/20/15
Checked By-Date: LSM 11/20/15
Project Number: 6122140098

amec foster wheeler

Figure: C-2



Atlanta Gas Light Company
Former Manufactured Gas Plant
18th Semiannual Corrective Action Effectiveness Report - July 2015 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

3-Point Gradient Estimation for the Saprolite
July 27, 2015

Prepared By-Date: JRM 11/20/15
Checked By-Date: LSM 11/20/15
Project Number: 6122140098

amec foster wheeler

Figure: C-3

Document Path: G:\AGL_Augusta\mxds\Second Semi Annual\GW_Appendix\GW_Saprolite_3point_analysis.mxd

Atlanta Gas Light Company
Former Manufactured Gas Plant
18th Semiannual Corrective Action Effectiveness Report - July 2015 Groundwater Monitoring Event
Augusta, Richmond County, Georgia

3-Point Gradient Estimation for the Bedrock and Transition Wells - July 27, 2015

Prepared By-Date: JRM 11/20/15
Checked By-Date: LSM 11/20/15
Project Number: 6122140098

amec foster wheeler

Figure: C-4

Document Path: G:\AGL_Augusta\mxds\Second Semi Annual\GW_Appendix\GW_BR_and_Transition_3point_analysis.mxd

APPENDIX D

ERM ANALYTICAL DATA VALIDATION CHECKLIST

Sample Submittals
AGLC/Augusta
July 17-31, 2015 Sampling Event

Matrix	Sample ID	Laboratory ID
Water	MW-207-20150728-01	1507O67-001
Water	MW-310BR-20150728-01	1507O67-002
Water	MW-320-20150728-01	1507O67-003
Water	MW-22-20150728-01	1507O67-004
Water	MW-306SAP-20150728-01	1507O67-005
Water	MW-325-20150728-01	1507O67-006
Water	MW-303-20150728-01	1507O67-007
Water	MW-214-20150728-01	1507O67-008
Water	MW-306D-20150728-01	1507O67-009
Water	MW-602-20150728-01	1507O67-010
Water	MW-309BR-20150728-01	1507O67-011
Water	MW-202DR-20150728-01	1507O67-012
Water	MW-402D-20150728-01	1507O67-013
Water	MW-307D-20150728-01	1507O67-014
Water	MW-307SAP-20150728-01	1507O67-015
Water	MW-402S-20150728-01	1507O67-016
Water	MW-21-20150728-01	1507O67-017
Water	MW-319-20150728-01	1507O67-018
Water	MW-401SAP-20150728-01	1507O67-019
Water	MW-310SAP-20150728-01	1507O67-020
Water	MW-213-20150728-01	1507O67-021
Water	MW-311-20150729-01	1507O67-022
Water	MW-408S-20150729-01	1507O67-023
Water	MW-324-20150729-01	1507O67-024
Water	MW-306BR-20150729-01	1507O67-025
Water	MW-203-20150729-01	1507O67-026
Water	MW-408DR-20150729-01	1507O67-027
Water	MW-313-20150729-01	1507O67-028
Water	MW-504BR-20150729-01	1507O67-029
Water	TB-01-20150728-01	1507O67-030
Water	TB-02-20150729-01	1507O67-031

Sample Submittals
AGLC/Augusta
July 17-31, 2015 Sampling Event

Matrix	Sample ID	Laboratory ID
Water	MW-321-20150729-01	1507Q56-001
Water	MW-503BR-20150729-01	1507Q56-002
Water	MW-511BR-20150729-01	1507Q56-003
Water	MW-505D-20150729-01	1507Q56-004
Water	MW-510BR-20150729-01	1507Q56-005
Water	MW-500BR-20150729-01	1507Q56-006
Water	MW-509BR-20150729-01	1507Q56-007
Water	MW-513BR-20150729-01	1507Q56-008
Water	MW-12-20150729-01	1507Q56-009
Water	MW-508BR-20150730-01	1507Q56-010
Water	MW-512BR-20150730-01	1507Q56-011
Water	MW-318-20150730-01	1507Q56-012
Water	MW-19-20150730-01	1507Q56-013
Water	MW-507BR-20150730-01	1507Q56-014
Water	MW-206-20150730-01	1507Q56-015
Water	MW-304-20150730-01	1507Q56-016
Water	MW-404DR-20150730-01	1507Q56-017
Water	MW-401D-20150730-01	1507Q56-018
Water	MW-501S-20150730-01	1507Q56-019
Water		1507Q56-020
Water	MW-307TZ-20150730-01	1507Q56-021
Water	MW-401S-20150730-01	1507Q56-022
Water	MW-306TZ-20150730-01	1507Q56-023
Water	MW-601-20150730-01	1507Q56-024
Water	MW-307BR-20150731-01	1507Q56-025
Water	MW-308BR-20150731-01	1507Q56-026
Water	DUP-01-20150729-01	1507Q56-027
Water	DUP-02-20150730-01	1507Q56-028
Water	DUP-03-20150730-01	1507Q56-029
Water	DUP-04-20150730-01	1507Q56-030
Water	DUP-05-20150730-01	1507Q56-031
Water	DUP-06-20150730-01	1507Q56-032
Water	TB-03-20150731-01	1507Q56-033
Water	TB-04-20150731-01	1507Q56-034

ERM Analytical Data Validation Checklist

Project Name: AGLC/Augusta	Laboratory: Analytical Environmental Services, Inc.
Project Reference: 0280918	Sample Matrix: Aqueous
ERM Project Phase Number: 054	Sample Start Date: 7/28/2015
Date Validated: October 30, 2015	Sample End Date: 7/31/2015

Sample Analyzed: At least ten percent (10%) of the samples collected were chosen for validation. The following samples within were validated. For a full list of the samples collected, see the sample submittal summary above.

DUP-01-20150729-01	MW-12-20150729-01	DUP-04-20150730-01	MW-601-20150730-01
DUP-02-20150730-01	MW-508BR-20150730-01	DUP-05-20150730-01	MW-401S-20150730-01
DUP-03-20150730-01	MW-306TZ-20150730-01	DUP-06-20150730-01	MW-315-20150730-01

Parameters Analyzed: Volatile Organic Compounds by SW-5030B method 8260B, CH_4 by RSK method RSK-175, O_2 by E360.1, CO_2 by SM4500, Semivolatile Organic Compounds by SW-846 method 8270D, Total ICP Metals (Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, V, and Zn) by SW-3010A Method 6010C, Total Mercury (Hg) by method SW7470A, Total Cyanide by method SM4500 CN-C E, Nitrate and sulfate by Method 9056, and Ferrous Iron (Fe^{2+}) by Standard Method SM 3500-Fe-B.

Laboratory Project IDs: 1507O67, and 1507Q56

PRECISION, ACCURACY, METHOD CONFORMANCE, AND COMPLETENESS ASSESSMENT

Precision:	**X**	Acceptable		Unacceptable	NGV	Initials

Comments: Laboratory precision was evaluated using laboratory control samples (LCSs), laboratory duplicates, and matrix spike duplicates (MSDs). Field sampling precision was evaluated using field duplicates. Evaluation of duplicates was done using the Relative Percent Difference (RPD). The RPD is defined as the difference between two duplicate sample results divided by the mean, and expressed as a percent. Overall, laboratory and field sampling precision were acceptable.

Accuracy:	**X**	Acceptable		Unacceptable	NGV	Initials

Comments: Accuracy is a measure of the system bias. Laboratory accuracy was evaluated using blanks, matrix spikes (MSs), LCSs, and surrogate recoveries. Overall, laboratory accuracy was acceptable.

Method Compliance:	**X**	Acceptable		Unacceptable	NGV	Initials

Comments: Method compliance was evaluated using holding times, internal standard recoveries, and surrogate recoveries. Overall method compliance was acceptable.

Completeness:	**X**	Acceptable		Unacceptable	NGV	Initials

Comments: Completeness is a percentage expression of the ratio of total acceptable data points to the total possible data points. No data points were rejected; all data are usable with some usable with qualification. For the sample data validated, no data points were rejected. The data set was 100% complete.

ERM Analytical Data Validation Checklist (Continued)

EVALUATION CRITERIA CHECK						
Data validation flags used in this review only include those used by the laboratory: BRL Below Reporting Limit. Indicates the analyte was analyzed for but not detected. E Estimated values are over linear calibration range due to the level of target analyte present in the unspiked sample **Only bolded comments required qualification.** The other comments are of interest, but qualification of the results was not necessary.						
1. Did the laboratory identify any nonconformances related to	**X**	Yes		No	NGV	Initials
Explanation: The laboratory identified the following nonconformance in the case narratives for the samples validated. **VOCs (8260B)** Due to sample matrix, samples 1507O67-021A, 1507Q56-006A; -009A, -024A; -025A; -027A, and -030A required dilution during preparation and/or analysis resulting in elevated reporting limits. Benzene value for the QC samples 1507O67-021AMSD is "E" qualified indicating estimated values over linear calibration range due to the level of target analyte present in the unspiked sample **SVOCs (8270D)** Due to sample matrix, samples 1507Q56-001D; -006D, -012D; -029D; and -030D required dilution during preparation and/or analysis resulting in elevated reporting limits.						
2. Were samples Chain-of Custody (COC) forms complete?	**X**	Yes		No	NGV	Initials
Comments: COC forms were complete.						
3. Were all the analyses requested for the samples on the COCs completed by the lab?	**X**	Yes		No	NGV	Initials
Comments: All requested COC analyses were completed by the laboratory						
4. Were samples received in good condition and at appropriate temperature?	**X**	Yes		No	NGV	Initials
Comments: Samples were received in good condition and temperatures ranging from 2.9 to 3.9 degrees C.						
5. Were the requested analytical methods in compliance with WP/QAPP, permit, or COC?	**X**	Yes		No	NGV	Initials
Comments: Requested analytical methods were in compliance with COC forms. Additionally, the test results in the validated report meet all NELAP requirements for parameters for which accreditation is required or available.						
6. Were detection limits in accordance with WP/QAPP, permit, or method?	**X**	Yes		No	NGV	Initials
Comments: Results were reported down to the practical quantitation limits.						
7. Do the laboratory reports include only those constituents requested to be reported for a specific analytical method?	**X**	Yes		No	NGV	Initials
Comments: The laboratory reported the requested constituents.						

ERM Analytical Data Validation Checklist (Continued)

8. Were the sample holding times met?	**X**	Yes		No	NGV	Initials
Comments: All requested analysis met specified hold times						
9. Were correct concentration units reported?	**X**	Yes		No	NGV	Initials
Comments: Organic results were reported in µg/L. ICP metals and general chemistry results were reported in mg/L.						
10. Were the reporting requirements for flagged data met?	**X**	Yes		No	NGV	Initials
Comments: The reporting requirements for flagged data were met. Data validation qualifiers supersede laboratory flags.						
11. Were laboratory blank samples free of target analyte contamination?	**X**	Yes		No	NGV	Initials
Comments: The lab blanks were free of target analyte contamination						
12. Were trip blank, field blank, and/or equipment blanks free of target analytes	**X**	Yes		No	NGV	Initials
Comments: Trip blanks were free of target analytes.						
13. Were instrument calibrations within method control limits?	**X**	Yes		No	NGV	Initials
Comments: Initial and continuing calibrations were within required method criteria for the target analytes.						
14. Were surrogate recoveries within control limits?	**X**	Yes		No	NGV	Initials
Comments: All surrogate recoveries were within laboratory QC limits.						
15. Were laboratory control sample recoveries within control limits?	**X**	Yes		No	NGV	Initials
Comments: All LCS recoveries outside control limits are listed in question 1 - the data have been reported and qualified.						
16. Were matrix spike recoveries within control limits?	**X**	Yes		No	NGV	Initials
Comments: All of the MS/MSD and matrix interference checks were within the laboratory QC/advisory limits for all target compounds except for those listed in question 1.						
17. Were duplicate RPDs and/or serial dilution %Ds within control limits?	**X**	Yes		No	NGV	Initials
Comments: RPDs for MS/MSDs, laboratory duplicate samples and LCS/LCSDs met QC criteria for all target compounds/analytes for the samples validated						
18. Were organic system performance criteria met?	**X**	Yes		No	NGV	Initials
Comments: All GC/MS internal standards were within method criteria for the samples validated.						
19. Were internal standards within method criteria for GS/MS sample analyses?	**X**	Yes		No	NGV	Initials
Comments: All GC/MS internal standards were within method criteria for the samples validated.						
20. Were inorganic system performance criteria met?	**X**	Yes		No	NGV	Initials
Comments: Inorganic system performance criteria were met.						

ERM Analytical Data Validation Checklist (Continued)

21. Were blind field duplicates collected? If so, discuss the precision (RPD) of the results.	**X**	Yes		No	NGV	Initials
Duplicate Sample No.	DUP-01-20150729-01	Primary Sample No.	MW-12-20150729-01			
Duplicate Sample No.	DUP-02-20150730-01	Primary Sample No.	MW-508BR-20150730-01			
Duplicate Sample No.	DUP-03-20150730-01	Primary Sample No.	MW-306TZ-20150730-01			
Duplicate Sample No.	DUP-04-20150730-01	Primary Sample No.	MW-601-20150730-01			
Duplicate Sample No.	DUP-05-20150730-01	Primary Sample No.	MW-401S-20150730-01			
Duplicate Sample No.	DUP-06-20150730-01	Primary Sample No.	MW-315-20150730-01			
Comments: Results for primary and field duplicate samples were nondetect for those constituent pairs with an NC in the RPD column in the following tables. RPD's greater than 30% are highlighted because this variation is greater than the advisory limit.						
22. Were qualitative criteria for organic target analyte identification met?	**X**	Yes		No	NGV	Initials
Comments: All qualitative criteria for organic target analyte identification were met.						
23. Were 100% of the EDD concentrations and reporting limits compared to the hardcopy data reports?	**X**	Yes		No	NGV	Initials

ERM Analytical Data Validation Checklist (Continued)

Field Duplicate Comparisons
ACLC/Augusta

July 2015 Sampling Event

Parameter	DUP-01-20150729-01		MW-12-20150729-01		RPD(%)
Benzene	6000	µg/L	6200	µg/L	3
Ethylbenzene	1500	µg/L	1800	µg/L	18
Toluene	640	µg/L	690	µg/L	8
Xylenes	950	µg/L	1200	µg/L	23
Acenaphthene	76	µg/L	74	µg/L	3
Acenaphthylene	**2.3**	**µg/L**	**1.4**	**µg/L**	**49**
Anthracene	1.4	µg/L	1.3	µg/L	7
Fluoranthene	0.26	µg/L	0.25	µg/L	4
Fluorene	16	µg/L	15	µg/L	6
Naphthalene	5200	µg/L	4700	µg/L	10
Phenanthrene	12	µg/L	10	µg/L	18
Pyrene	0.24	µg/L	0.26	µg/L	8
Barium	0.213	mg/L	0.218	mg/L	2

ERM Analytical Data Validation Checklist (Continued)

Field Duplicate Comparisons
ACLC/Augusta

July 2015 Sampling Event

Parameter	DUP-02-20150730-01		MW-508BR-20150730-01		RPD(%)
Barium	0.518	mg/L	0.526	mg/L	2
Chromium	0.0163	mg/L	0.0161	mg/L	1

ERM Analytical Data Validation Checklist (Continued)

Field Duplicate Comparisons
ACLC/Augusta

July 2015 Sampling Event

Parameter	DUP-03-20150730-01		MW-306TZ-20150730-01		RPD(%)
Acenaphthene	**< 50**	**µg/L**	**8.9**	**µg/L**	**NC**
Anthracene	0.15	µg/L	0.13	µg/L	14
Fluorene	1.2	µg/L	0.93	µg/L	25
Naphthalene	210	µg/L	200	µg/L	5
Phenanthrene	0.57	µg/L	0.45	µg/L	24
Pyrene	0.068	µg/L	0.056	µg/L	19
Barium	0.783	mg/L	0.771	mg/L	2
Copper	**< 0.0100**	**mg/L**	**0.0142**	**mg/L**	**NC**

ERM Analytical Data Validation Checklist (Continued)

Field Duplicate Comparisons
ACLC/Augusta

July 2015 Sampling Event

Parameter	DUP-04-20150730-01		MW-601-20150730-01		RPD(%)
Benzene	21000	µg/L	20000	µg/L	5
Ethylbenzene	1500	µg/L	1400	µg/L	7
Toluene	14000	µg/L	12000	µg/L	15
Xylenes	3400	µg/L	3500	µg/L	3
Acenaphthene	**5.6**	**µg/L**	**1.0**	**µg/L**	**139**
Acenaphthylene	**< 100**	**µg/L**	**5.0**	**µg/L**	**NC**
Anthracene	2.8	µg/L	3.7	µg/L	28
Benzo(a)anthracene	**0.14**	**µg/L**	**< 0.050**	**µg/L**	**NC**
Fluoranthene	0.27	µg/L	0.35	µg/L	26
Fluorene	**16**	**µg/L**	**3.0**	**µg/L**	**137**
Naphthalene	**4300**	**µg/L**	**6600**	**µg/L**	**42**
Phenanthrene	9.4	µg/L	12	µg/L	24
Pyrene	**0.31**	**µg/L**	**0.45**	**µg/L**	**37**
Barium	0.215	mg/L	0.213	mg/L	1
Cyanide	0.019	mg/L	0.022	mg/L	15
Copper	**< 0.0100**	**mg/L**	**0.0175**	**mg/L**	**NC**
Zinc	**0.0339**	**mg/L**	**0.0520**	**mg/L**	**42**

ERM Analytical Data Validation Checklist (Continued)

Field Duplicate Comparisons
ACLC/Augusta

July 2015 Sampling Event

Parameter	DUP-05-20150730-01		MW-401S-20150730-01		RPD(%)
					NC
Naphthalene	**21**	**µg/L**	**< 0.50**	**µg/L**	**NC**
Barium	0.0970	mg/L	0.0916	mg/L	6

ERM Analytical Data Validation Checklist (Continued)

Field Duplicate Comparisons
ACLC/Augusta

July 2015 Sampling Event

Parameter	DUP-06-20150730-01		MW-315-20150730-01		RPD(%)
Acenaphthene	0.62	mg/L	0.54	mg/L	14
Benzo(b)fluoranthene	**0.10**	**mg/L**	< 0.10	**mg/L**	**NC**
Naphthalene	**2.0**	**mg/L**	1.2	**mg/L**	**50**
Pyrene	0.081	mg/L	0.080	mg/L	1
Barium	0.437	µg/L	0.445	µg/L	2
Zinc	**< 0.0200**	**mg/L**	0.0259	**mg/L**	**NC**

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 July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID / Sample Date / Unit	MW-05																												
			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	01/10 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	07/01 DUP	1/18/2001
			Post-ISCO																		Pre-ISCO										
Field Parameters																															
Conductivity	*	mS/cm	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	0.69	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	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	-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	6.14	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	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	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	1.95	2	2.2	2.2	2	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	< 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	< 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	< 0.60	< 0.60	< 0.60	< 0.60	< 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	< 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	< 1.0	< 1.0	**3.5 J B**	< 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	< 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	< 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	< 0.20	< 0.20	< 0.20	< 0.20	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthene	2,000	µg/L	< 0.50	< 0.50	< 0.50	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthylene	10	µg/L	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	10	µg/L	< 0.050	< 0.050	< 0.050	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 0.050	< 0.050	< 0.050	< 0.21	< 0.097	< 0.11	< 0.12	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.20	<0.050	<0.050	< 0.05	< 0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(a)pyrene	0.2	µg/L	< 0.050	< 0.050	< 0.050	< 0.21	< 0.097	< 0.11	< 0.12	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.20	<0.050	**0.090**	< 0.05	< 0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(b)fluoranthene	0.2	µg/L	< 0.10	< 0.10	< 0.10	< 0.21	< 0.097	< 0.11	< 0.12	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.20	<0.10	<0.10	< 0.1	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(g,h,i)perylene	10	µg/L	< 0.10	< 0.10	< 0.10	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 0.050	< 0.050	< 0.050	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chrysene	0.2	µg/L	< 0.050	< 0.050	< 0.050	< 0.21	< 0.043	< 0.047	< 0.055	< 0.047	< 0.19	< 0.19	< 0.19	< 0.19	< 0.20	<0.050	<0.050	< 0.05	< 0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.10	< 0.10	< 0.10	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 1.0	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	1,000	µg/L	< 0.10	< 0.10	< 0.10	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	1,000	µg/L	< 0.10	< 0.10	< 0.10	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.050	< 0.050	< 0.050	< 0.21	< 0.097	< 0.11	< 0.12	< 0.10	< 0.19	< 0.19	< 0.19	< 0.19	< 0.20	**0.14**	**0.21**	< 0.05	< 0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	20	µg/L	< 0.50	< 0.50	< 0.50	< 0.21	< 0.097	< 0.11	**0.22 J**	**0.13 J**	<0.19	<0.19	<0.19	**0.038 J**	**0.090 J**	< 10	< 10	< 10	< 10	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Phenanthrene	10	µg/L	< 0.050	< 0.050	< 0.050	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	1,000	µg/L	< 0.050	< 0.050	< 0.050	< 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	< 10	< 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	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.0053	< 0.0053	**0.0071 J**	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.020	< 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	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.0046	**0.0082 J**	**0.022**	< 0.0046	<0.020	<0.020	<0.020	**0.0069 J**	< 0.010	<0.0500	<0.050	< 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	**0.349**	**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	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.00020	< 0.00020	**0.00028 J**	< 0.00020	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.01	< 0.01	< 0.005	< 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	< 0.0050	< 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	< 0.005	< 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	< 0.0100	<0.0100	< 0.0100	<0.010	< 0.0012	**0.0013 J**	**0.0051 J**	**0.0018 J**	<0.010	<0.010	<0.010	**0.0018 J**	< 0.010	< 0.0100	< 0.010	< 0.01	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01N	< 0.01N	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.0019	< 0.0019	**0.0040 J**	< 0.0019	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0100	< 0.010	< 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	0.02	<0.0100	**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**	< 0.010	< 0.010	**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	< 0.0100	< 0.0100	< 0.0100	<0.010	< 0.0040	< 0.0040	**0.0051 J**	< 0.0040	<0.010	<0.010	<0.010	< 0.0050	< 0.0050	< 0.0100	< 0.010	< 0.01	< 0.01	< 0.003	< 0.005	< 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	< 0.00020	< 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	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	**0.00012 B**	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00020
Nickel	0.1	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.0023	< 0.0023	**0.015 J**	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.0200	< 0.020	< 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	< 0.0200	<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	< 0.020	< 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	< 0.0200	< 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	< 0.001	< 0.001	< 0.001	< 0.001	**0.035**	< 0.001	< 0.001	< 0.002	< 0.002WN	< 0.002 J	< 0.002	< 0.002	< 0.002	< 0.002
Vanadium (fume or dust)	0.2	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.0024	< 0.0024	**0.0075 J**	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 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	< 0.0200	< 0.0200	**0.0242**	< 0.020	< 0.0087	**0.027**	**0.51**	**0.037**	< 0.020	**0.12**	**0.1**	**0.045**	< 0.020	< 0.0200	**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 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
< - 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 July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-12																															
		Sample Date	7/29/2015	7/29 DUP	1/14/2015	01/15 DUP	7/14/2014	07/14 DUP	1/8/2014	01/14 DUP	7/10/2013	07/13 DUP	1/9/2013	1/13 DUP	7/25/2012	07/12 DUP	1/18/2012	01/12 DUP	07/11 DUP	7/5/2011	01/11 DUP	1/18/2011	07/10 DUP	7/14/2010	1/6/2010	01/10 DUP	7/23/2009	7/22/2008	07/22 DUP	1/8/2008	01/08 DUP	7/10/2007	07/07 DUP	2/14/2007
		Unit	Post-ISCO																															
Field Parameters																																		
Conductivity	*	mS/cm	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	0.31	0.31	0.33	0.33	0.14	0.14	0.64	0.64	0.98	0.98	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	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	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	6.69	6.35	6.35	5.76	5.76	6.47	6.47	5.51
Temperature	*	Celsius	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	22.36	22.37	15.24	15.24	24.37	22.56	22.56	20.63	20.63	21.93	21.93	19.13
Turbidity	*	NTU	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	2,300 * B	2,200 * B	1,900	2,300	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	5.4 HF	4.9 HF	6.4 HF	6.2 HF	7.0 HF	6.3 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	980	910	510	1,100	1,300	1,500	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	--	--	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	1.4	1.1	1.3	1.3	1.3	1.3	1.1	1.1	0.92	0.81	1.0	2.0	1.8	0.83
Sulfate	*	mg/L	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6	1.5	31	31	33	34	19	32	9.5	8.4	9.8	9.9	5.1	6.2	8.5	11	40	68	69	210	220	130	120	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	170
Volatile Organic Compounds																																		
Acetone	4,000	µg/L	< 1.0	< 5000	< 50	< 50	< 1,000	< 1,000	< 50	< 50	< 50	< 50	< 100	< 100	< 100	< 100	< 50	< 5.0	< 50	< 25	< 100	< 25	**190 J**	**11 J**	< 5,000	< 5,000	< 5,000	< 1,000	< 2,000	< 50	< 50	< 2,500	< 2,500	**120**
Benzene	5	µg/L	**6200**	**6000**	**3,500**	**3,600**	**5,700**	**5,500**	**2,200**	**2,200**	**1,900**	**1,900**	**220**	**120**	**73**	**69**	**100**	**71**	**590**	**210**	**410**	**540**	**2,300**	**1,800**	**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	< 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	< 6.0	< 3.0	< 12	< 3.0	< 100	< 5.0	< 250	< 250	< 250	< 50	< 100	< 5.0	< 5.0	< 5	< 250	< 5
Ethylbenzene	700	µg/L	**1800**	**1500**	**930**	**990**	**1,700**	**1,600**	**720**	**680**	**540**	**530**	**93**	**52**	**39**	**34**	**120**	**76**	**240**	**130**	**190**	**280**	**600**	**470**	**730**	**760**	**470**	**440**	**390**	**290**	**270**	**530**	**500**	**1,000**
Methylene Chloride	5	µg/L	< 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	< 10	< 5.0	< 20	< 5.0	< 100	< 5.0	< 250	< 250	< 250	< 50	< 100	< 5.0	< 5.0	< 5	**940**	< 5
Toluene	1,000	µg/L	**690**	**640**	**720**	**740**	**660**	**680**	**330**	**330**	**160**	**200**	< 5.0	< 5.0	< 5.0	< 5.0	< 3.3	**0.90 J**	**5.9 J**	**2.9 J**	**7.9 J**	**8.3 J**	**25 J**	**24**	< 250	< 250	**370**	**3.8 J**	< 100	**39**	**40**	**340**	**320**	**2,000**
Trichloroethylene	5	µg/L	< 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	< 1.3	< 0.65	< 2.6	< 0.65	< 100	< 5.0	< 250	< 250	< 250	< 50	< 100	< 5.0	< 5.0	< 5	< 250	< 5
Xylenes, total	2,000	µg/L	**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**	**30 J**	**20 J**	**52 J**	**70**	**280**	**270**	**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	**74**	**76**	**69**	**73**	**110**	**120**	**71**	**68**	**23**	**25**	< 22	< 22	**33**	**20**	**32**	**52**	**21**	**22**	**28**	**24**	< 94	< 190	<100	<100	< 3.8	**27**	**44**	**31**	**28**	**26**	**25**	**31**
Acenaphthylene	10	µg/L	**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**	**2.4**	**2.8**	**5.8**	**5.2**	< 94	< 190	<100	<100	< 3.8	**1.0 J**	< 3.9	< 10	< 10	< 10	< 10	**11**
Anthracene	10	µg/L	**1.3**	**1.4**	**1.5**	**1.9**	**2.4**	**2.6**	**1.7**	**1.8**	**0.74**	**0.73**	< 22	< 22	< 9.5	< 9.5	**0.83**	**1.9 J**	< 1.1	< 1.1	**1.2 J**	< 0.99	< 94	< 190	<100	<100	< 3.8	**0.84 J**	**1.1 J**	< 10	< 10	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 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	< 0.96	< 0.99	< 94	< 190	<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	< 0.050	< 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	< 0.96	< 0.99	< 94	< 190	<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	< 0.10	< 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	< 0.96	< 0.99	< 94	< 190	<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	< 0.10	< 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	< 0.96	< 0.99	< 94	< 190	<100	<100	< 3.8	< 3.9	< 3.9	< 10	< 10	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 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	< 0.96	< 0.99	< 94	< 190	<100	<100	< 3.8	< 3.9	< 3.9	< 10	< 10	< 10	< 10	< 10
Chrysene	0.2	µg/L	< 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	< 0.43	< 0.44	< 94	< 190	<100	<100	< 3.8	< 3.9	< 3.9	< 0.050	< 0.050	< 0.05	< 0.050	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 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	< 0.96	< 0.99	< 94	< 190	<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	**0.25**	**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	< 0.96	< 0.99	< 94	< 190	<100	<100	< 3.8	< 3.9	< 3.9	< 10	< 10	< 10	< 10	< 10
Fluorene	1,000	µg/L	**15**	**16**	**18**	**23**	**29**	**33**	**19**	**19**	**8.1**	**7.9**	< 22	< 22	< 9.5	< 9.5	**7.3**	**19**	**8.7**	**8.8**	**12**	**11**	< 94	< 190	<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	< 0.050	< 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	< 0.96	< 0.99	< 94	< 190	<100	<100	< 3.8	< 3.9	< 3.9	< 0.050	< 0.050	< 10	**0.53**	< 0.05
Naphthalene	20	µg/L	**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**	**950**	**690**	**1,500**	**1,300**	**2,800**	**3,000**	**3,100**	**2,200**	**340**	**2,000**	**2,500**	**2,100**	**2,400**	**4,200**	**4,500**	**3,100**
Phenanthrene	10	µg/L	**10**	**12**	**11**	**14**	**21**	**23**	**14**	**14**	**3.8**	**3.3**	< 22	< 22	< 9.5	< 9.5	**5.1**	**12**	**4.8**	**3.6**	**6.9**	**5.6**	< 94	< 190	<100	<100	< 3.8	**6.5**	**10**	**10**	< 10	**15**	**14**	**16**
Pyrene	1,000	µg/L	**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	< 0.96	< 0.99	< 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	< 0.02	< 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	< 0.0500	< 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	**0.218**	**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**	**0.41**	**0.35**	**0.27**	**0.28**	**0.31**	**0.30**	**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	< 0.01	< 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**	**0.00079 J**	**0.0011 J**	**0.0015 J**	**0.0013 J**	**0.00056 J**	**0.00055 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	< 0.0050	< 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	< 0.0100	< 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**	**0.0023 J**	**0.0039 J**	**0.0025 J**	**0.0026 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	< 0.0100	< 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	< 0.010	**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	**0.011**	**0.019**	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.0076	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01
Lead	0.015	mg/L	< 0.01	< 0.01	< 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	< 0.00020	< 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	< 0.00020	--	--	< 0.00020	< 0.00020	< 0.0002	< 0.00020	< 0.0002
Nickel	0.1	mg/L	< 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	**0.0028 J**	< 0.0023	**0.0024 J**	**0.0033 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	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 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	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.0200	< 0.02	< 0.020	< 0.02
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	0.002	mg/L	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 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	< 0.0010	**0.0033 J**	0.0023	< 1.00	< 1.00	< 1.00	< 1.00	< 0.001
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0200	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.0024	**0.0030 J**	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020	< 0.0100	< 0.0100	**0.0132**	**0.0122**	< 0.01
Zinc	2	mg/L	< 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	< 0.0087	< 0.0087	< 0.0087	< 0.0087	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	<0.020	< 0.020	< 0.0200	< 0.0200	< 0.02	< 0.020	< 0.02

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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-12 (continued)														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	**29 J**	**28 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 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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-19																															
		Sample Date	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	1/02 DUP	7/12/2001	1/17/2001
		Unit	Post-ISCO																					Pre-ISCO										
Field Parameters																																		
Conductivity	*	mS/cm	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	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	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	6.22	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	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	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	< 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	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	**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	< 0.25	< 0.25	< 0.25	< 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	1.0 U	**10**
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	< 5.0	< 5	< 5	5 U	--	1.0 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	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	< 5.0	< 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	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	< 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	**0.35 J**	5.0 U	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	< 0.33	< 0.33	< 0.33	< 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	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	**9.4**	**3.0 J**	**1.8 J**	**1.7 J**	< 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	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	< 5.0	< 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	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	10 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	< 0.19	< 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	10 U
Acenaphthylene	10	µg/L	< 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	10 U
Anthracene	10	µg/L	**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	**0.053**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 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	**0.054**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 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	**0.11**	< 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**	< 0.10	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 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	< 0.10	< 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	< 0.10	< 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	10 U	**0.65 J**
Fluorene	1,000	µg/L	< 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	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	**0.07**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 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	< 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	< 0.50	< 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	**0.12**	< 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	**0.07 B**	**0.83**	**0.78**	0.2 U	**0.098 B**
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	< 0.020	< 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	0.02 U	**0.0073 B**
Arsenic	0.05	mg/L	< 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	0.01 U
Barium	2	mg/L	**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	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	**0.00021 J**	< 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	0.004 U	**0.0019 B**
Cadmium	0.005	mg/L	< 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 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	< 0.0100	**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	< 0.0100	< 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	< 0.01	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	< 0.0100	< 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	< 0.00020	< 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	0.0002 U	0.00020 U
Nickel	0.1	mg/L	< 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	< 0.0200	< 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	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	**84.1**	**78.9**	**69**	**69**	**66**	**74**	**73**	**59**	**59**	**72**	**72**
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	< 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 U	0.002 UWN	0.002 U	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	**0.016**	< 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 UJ	0.01 U	0.01 U	**0.0023 B**	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	**0.113**	**0.0747**	**0.0856**	**0.0985**	**0.142**	**0.12**	**0.14**	**0.030**	**0.11**	**0.042**	**0.044**	**0.052**	**0.065**	**0.055**	0.051	**0.0730**	**0.0907**	< 0.02	**0.111**	--	**0.133**	**0.197**	0.02 U	**0.046**	**0.07**	**0.055**	**0.035**	**0.041**	**0.04**	**0.034**	**0.037**

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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-21																																	
		Sample Date	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	1/09 DUP	1/15/2009	7/21/2009	1/9/2008	1/08 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	7/03 DUP	1/16/2003	7/10/2002	1/21/2002	7/11/2001	1/18/2001
		Unit	Post-ISCO																							Pre-ISCO										
Field Parameters																																				
Conductivity	*	mS/cm	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	0.23	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	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	6.27	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	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	1.76	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	0.05 U	0.04 UJ	0.06	0.023 B	0.05 U	0.05 U	0.089	0.046 B
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese, Total	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.379	0.332	0.35	0.45	0.43	0.34	0.34	0.37	0.38	0.4	0.47 N	0.39
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	< 100	< 100	< 50	< 50	< 100	< 50	< 50	50 U	33 U	25 U	25 U	25 U	25 U	25 UR	25 UR	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	< 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	1.0 U	1.0 U	**0.12 J**	**1.8 J**	**0.17 J**
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	< 5.0	< 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	1.0 UR	1.0 UR	1.0 U	1.0 U	1.0 U	**0.77 J**	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	< 5.0	< 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	1.0 UR	1.0 UR	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	< 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 U	5.0 UR	5.0 UR	5.0 U	**0.26 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	< 0.33	< 0.33	**0.92 J**	< 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 U	1.0 UR	1.0 UR	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethylene	5	µg/L	**11**	**18**	**18**	**49**	**150**	**130**	**86**	**13**	**110**	**100**	**130**	**160**	**87**	**70**	**64**	**62**	**100**	**96**	**62**	**110**	< 5	**170**	**110**	**180**	**140**	**140**	**120**	1.0 UR	**0.14**	**43**	**39**	**36**	**37**	**30**
Xylenes, tota	2,000	µg/L	< 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**	2.0 UR	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	< 0.50	< 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	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	< 0.19	< 0.19	< 0.098	< 0.11	< 0.11	< 0.20	< 0.20	< 0.20	< 0.19	**0.024 J**	< 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	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 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	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	< 0.19	< 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	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	< 0.19	< 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	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	< 0.19	< 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	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	< 0.19	< 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	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	< 0.19	< 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	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	< 0.19	< 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	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	< 0.19	< 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	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	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
Fluoranthene	1,000	µg/L	< 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	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	< 0.19	< 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	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	< 0.19	< 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	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 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	**0.048 J**	**0.43 B**	**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	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	< 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	10 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	< 0.098	< 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	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	**0.058 B**	0.2 U	0.2 U	0.2 U	**0.029 B**
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	< 0.020	< 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	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	< 0.0500	< 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	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**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**	**0.065**	**0.066**	**0.066**	**0.063**	**0.061**
Beryllium	0.004	mg/L	< 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	0.0040 U	**0.00057 B**	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	< 0.0050	< 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	0.0050 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**	**30**	**33**	**32**	**33**	**33**	**33**
Chromium	0.1	mg/L	< 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	**0.0015 J**	< 0.010	**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	0.01 U	0.010 U	0.01 U	0.01 U	0.01 UN	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	0.01 U	**0.0021 B**	0.01 U
Copper	1.3	mg/L	< 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	**0.0028 J**	< 0.020	< 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	0.02 U	0.020 U	0.02 U	0.02 U	0.02 UN	0.02 U
Cyanide	0.2	mg/L	< 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	0.015 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	< 0.010	< 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	0.005 U	0.0050 U	**0.0033 B**	0.005 U	**0.002 B**	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**20.4**	**21.1**	**22**	**22**	**24**	**19**	**20**	**22**	**22**	**23**	**24**	**24**
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	< 0.00020	< 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	0.0002 U	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	< 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	0.04 U	0.040 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**	**0.9**	**0.87 B**	**0.92 B**	**0.9 B**	**0.86 B**	**1.1**
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	< 0.020	< 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	0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**40.8**	**47**	**46**	**49**	**47**	**44**	**44**	**46**	**49**	**44**	**45**	**46**
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	< 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	0.002 U	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	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	**0.0023 J**	**0.0019 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	0.01 U	0.010 U	**0.0023 B**	**0.0027 B**	0.01 U	**0.0023 B**
Zinc	2	mg/L	< 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	**0.016 J**	< 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**	0.02 UJ	0.020 U	0.02 U	0.02 U	**0.0091 B**	**0.013 B**

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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-22																														
		Sample Date	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	07/09 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	7/11/2002	1/22/2002	7/10/2001	1/18/2001
		Unit	Post-ISCO																						Pre-ISCO								
Field Parameters																																	
Conductivity	*	mS/cm	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	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	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	6.32	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	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	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	0.2	0.033 B	0.54
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	0.15	0.0081 B	0.038
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	< 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	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	< 5.0	< 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	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	< 5.0	< 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	**0.36 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	< 5.0	< 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
Methylene Chloride	5	µg/L	< 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	5.0 U	**0.51 J**	**0.28 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	< 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	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	< 5.0	< 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	< 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	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	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	< 0.22	< 0.097	< 0.095	< 0.11	< 0.098	< 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	10 U	10 U	10 U	10 U
Acenaphthylene	10	µg/L	< 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	< 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
Anthracene	10	µg/L	< 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	< 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
Benz(a)anthracene	0.1	µg/L	< 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	< 0.050	--	< 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
Benzo(a)pyrene	0.2	µg/L	< 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	< 0.050	--	< 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
Benzo(b)fluoranthene	0.2	µg/L	< 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	< 0.10	--	< 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
Benzo(g,h,i)perylene	10	µg/L	< 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	< 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
Benzo(k)fluoranthene	10	µg/L	< 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	< 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
Chrysene	0.2	µg/L	< 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	< 0.050	--	< 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
Dibenzo(a,h)anthracene	0.3	µg/L	< 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	< 0.10	--	< 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
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
Fluoranthene	1,000	µg/L	< 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	< 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
Fluorene	1,000	µg/L	< 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	< 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
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 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	< 0.050	--	< 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
Naphthalene	20	µg/L	< 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	< 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
Phenanthrene	10	µg/L	< 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	< 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
Pyrene	1,000	µg/L	< 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	< 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
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**	**0.22**	0.2 U	**0.32**
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	< 0.020	< 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	0.02 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	< 0.020	< 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	**0.0349**	**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**	**0.061**	**0.053**	**0.056**
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	< 0.0040	< 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
Cadmium	0.005	mg/L	< 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	0.005 U	0.005 U	0.005 U
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**22**	**26.8**	**27**	**27**	**21**	**22**	**22**	**23**	**23**	**22**
Chromium	0.1	mg/L	< 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	0.01 U	0.01 U	**0.0054 B**
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	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
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	< 0.020	< 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**	**0.00093 B**	0.02 U	**0.0013 B**
Cyanide	0.2	mg/L	< 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	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	< 0.010	< 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 UJ	**0.0025 B**	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**25.7**	**32.4**	**32**	**33**	**27**	**28**	**30**	**30**	**30**	**29**
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	< 0.00020	< 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	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	**0.0023 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	0.04 U	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**	**0.28 B**	**0.27 B**	**0.29 B**
Selenium	0.05	mg/L	< 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	0.01 U	**0.0063 B**	0.01 U	0.01 U	**0.0063 B**	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**31**	**45.5**	**41**	**40**	**47**	**40**	**42**	**39**	**41**	**43**
Thallium	0.002	mg/L	< 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	0.001 U	0.002 U	0.002 UWN	0.002 UWN	0.002 U	.002 U	0.002 U
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.0024	< 0.0024	**0.0046 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	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	< 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	0.02 U	0.02 U	0.02 U

Notes:
-- - Not analyzed
* - Not a HSRA regulated compound
**- Resampled in August 2007 for VOCs only
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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-24		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	10 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	10 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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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**	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 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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-201		MW-202DR													
		Sample Date	10/4/2006	7/9/2002	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	2/15/2007
		Unit	Post-ISCO	Pre-ISCO	Post-ISCO													
Field Parameters																		
Conductivity	*	mS/cm	670	--	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	1.542
Dissolved Oxygen (YSI)	*	mg/L	0.16	--	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	12.98
Oxidation Reduction Potential	*	mV	18.6	--	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	138.7
pH	*	SU	6.27	--	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	5.95
Temperature	*	Celsius	23.14	--	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	19.48
Turbidity	*	NTU	0.99	--	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	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	--
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	< 0.1
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	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	< 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	36
Sulfate	*	mg/L	--	--	--	56	61	64	67	68	72	75	80	79	78	76	98	340
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds																		
Acetone	4,000	µg/L	< 50	< 25	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 100	< 50
Benzene	5	µg/L	< 5	< 1.0	< 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
Carbon Disulfide	4,000	µg/L	< 5	< 1.0	< 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
Ethylbenzene	700	µg/L	< 5	< 1.0	< 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
Methylene Chloride	5	µg/L	< 5	< 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
Toluene	1,000	µg/L	< 5	< 1.0	< 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
Trichloroethylene	5	µg/L	< 5	< 1.0	< 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
Xylenes, total	2,000	µg/L	< 5	< 2.0	< 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
Semivolatile Organic Compounds																		
2-Methylnaphthalene	*	µg/L	--	< 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	2,000	µg/L	< 10	< 10	< 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	< 10
Acenaphthylene	10	µg/L	< 10	< 10	< 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	< 10
Anthracene	10	µg/L	< 10	< 10	< 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	< 10
Benz(a)anthracene	0.1	µg/L	< 0.05	< 10	< 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	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 10	< 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	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 10	< 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	< 0.1
Benzo(g,h,i)perylene	10	µg/L	< 10	< 10	< 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	< 10
Benzo(k)fluoranthene	10	µg/L	< 10	< 10	< 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	< 10
Chrysene	0.2	µg/L	< 0.05	< 10	< 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	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 10	< 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	< 0.1
Dibenzofuran	1	µg/L	--	< 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	1,000	µg/L	< 10	< 10	< 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	< 10
Fluorene	1,000	µg/L	< 10	< 10	< 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	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 10	< 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	< 0.05
Naphthalene	20	µg/L	< 10	< 10	< 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	< 10
Phenanthrene	10	µg/L	< 10	< 10	< 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	< 10
Pyrene	1,000	µg/L	< 10	< 10	< 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	< 10
Inorganic Compounds																		
Aluminum (fume or dust)	*	mg/L	--	**0.042 J**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	0.01	mg/L	< 0.02	< 0.02	< 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	< 0.02
Arsenic	0.05	mg/L	< 0.05	< 0.01	< 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	< 0.05
Barium	2	mg/L	**0.0647**	**0.084**	**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**	**0.104**
Beryllium	0.004	mg/L	< 0.01	< 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	< 0.010
Cadmium	0.005	mg/L	< 0.005	< 0.0011	< 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	< 0.005
Calcium metal	*	mg/L	--	**49**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	0.1	mg/L	< 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
Cobalt	*	mg/L	--	**0.0099 J**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	1.3	mg/L	< 0.01	< 0.0016	< 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	< 0.010
Cyanide	0.2	mg/L	< 0.01	**0.12**	< 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
Lead	0.015	mg/L	< 0.01	< 0.005	< 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
Magnesium	*	mg/L	--	**39**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	0.002	mg/L	< 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	< 0.0002
Nickel	0.1	mg/L	< 0.02	**0.0049 J**	< 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	< 0.02
Potassium	*	mg/L	--	**1.1**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	0.05	mg/L	< 0.02	< 0.01	< 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	< 0.02
Sodium	*	mg/L	--	**100**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	0.002	mg/L	< 0.001	< 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	< 1
Vanadium (fume or dust)	0.2	mg/L	< 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
Zinc	2	mg/L	< 0.02	**0.018 J**	< 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	< 0.02

Notes:
-- - Not analyzed
* - Not a HSRA regulated compound
** - Resampled in August 2007 for VOCs only
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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-203																											
		Sample Date	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	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	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	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	6.3	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	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	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	< 100	< 100	< 5.0	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 0.50	< 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	<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	< 0.050	< 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	< 0.050	< 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	**0.075**	< 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	< 0.10	< 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	**0.12**	< 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	**0.068**	< 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	< 0.050	< 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	**0.13**	< 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	< 0.10	< 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	< 0.10	< 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	**0.13**	< 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	< 0.050	< 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	< 0.050	< 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	< 0.050	< 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	< 0.02	< 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	< 0.0500	< 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	**0.0545**	**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	< 0.01	< 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	< 0.0050	< 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 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	< 0.0100	< 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	< 0.0100	< 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	< 0.010	< 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	< 0.0100	< 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	< 0.00020	< 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	< 0.0200	< 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	< 0.0200	< 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	< 0.02	< 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	**0.0176**	**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	**0.0312**	< 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 analyzed
* - Not a HSRA regulated compound
** - Resampled in August 2007 for VOCs only
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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-205																							
		Sample Date	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	01/02 DUP	7/17/2001	07/01 DUP	1/23/2001
		Unit															Pre-ISCO									
Field Parameters																										
Conductivity	*	mS/cm	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	0.23	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	-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	6.43	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	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	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	< 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	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	< 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	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	< 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	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	< 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	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	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	7.0	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	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	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	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	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	0.76	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	0.59	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	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	0.19	<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	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	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	0.65	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	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	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	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	< 0.0200	< 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	< 0.0500	< 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	< 0.0200	<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	< 0.0100	< 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	< 0.0050	< 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	0.0133	< 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	< 0.0100	< 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	0.012	< 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	< 0.0100	< 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	< 0.00020	< 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	< 0.0200	< 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	0.0300 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	< 0.0200	< 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	< 0.0200	< 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	< 0.0100	< 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	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0087	0.030	0.030	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 analyzed
* - Not a HSRA regulated compound
** - Not sampled due to DNAPL
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

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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-206																															
		Sample Date	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	07/09 DUP	1/15/2009	7/22/2008	1/8/2008	8/21/2007**	08/07 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	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	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	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	6.92	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	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	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	< 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
Benzene	5	µg/L	< 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	1.0 U	**0.16 J**	1.0 U
Carbon Disulfide	4,000	µg/L	< 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	< 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	< 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	**0.29 J**	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1,000	µg/L	< 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	**0.5 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	< 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	**0.47 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	< 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
Acenaphthene	2,000	µg/L	< 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	< 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	< 0.050	< 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	< 0.050	< 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	< 0.050	< 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	< 0.10	< 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	< 0.10	< 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	< 0.050	< 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	< 0.050	< 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	< 0.10	< 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
Fluoranthene	1,000	µg/L	< 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	< 0.10	< 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	< 0.050	< 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	**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	< 0.50	< 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	< 0.050	< 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	< 0.02	< 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	< 0.0500	< 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	**0.276**	**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	< 0.01	< 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	< 0.0050	< 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	< 0.0100	< 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	< 0.0100	< 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	< 0.010	< 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	< 0.0100	< 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	< 0.00020	< 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	< 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	< 0.0200	< 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	< 0.0200	< 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	< 0.02	< 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	< 0.0100	**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**	< 0.010	< 0.01	0.007 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.012**	0.01 U	--	0.01 U	0.01 U	0.01 U
Zinc	2	mg/L	**0.0759**	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0087	< 0.0087	**0.013 J**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	**0.0708**	--	--	< 0.02	< 0.02	< 0.02	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.1**	**0.0073 B**	--	0.02 U	**0.007 B**	0.02 U

Notes:
-- - Not analyzed
* - Not a HSRA regulated compound
** - Resampled in August 2007 for VOCs only
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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-207																													
		Sample Date	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	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	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	-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	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	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	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	< 100	< 100	< 5.0	< 5.0	< 5.0	**14 J**	< 100	< 100	< 100	**13.0 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	< 0.25	< 0.25	< 0.25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 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	< 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	< 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	< 0.11	< 0.11	< 0.11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 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	< 1.0	**3.3 J B ***	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 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	< 0.33	< 0.33	< 0.33	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 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	< 0.13	< 0.13	< 0.13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 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	< 0.20	< 0.20	< 0.20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 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	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthene	2,000	µg/L	< 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	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthylene	10	µg/L	< 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	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene	10	µg/L	< 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	< 10	< 10	< 10	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 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	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(a)pyrene	0.2	µg/L	< 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	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(b)fluoranthene	0.2	µg/L	< 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	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(g,h,i)perylene	10	µg/L	< 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	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 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	< 10	< 10	< 10	< 10	< 10	< 10
Chrysene	0.2	µg/L	< 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	< 10	< 10	< 10	< 10	< 10	< 10
Dibenzo(a,h)anthracene	0.3	µg/L	< 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	< 10	< 10	< 10	< 10	< 10	< 10
Dibenzofuran	1	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 1.0	< 0.2	< 0.2	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 10	< 10
Fluoranthene	1,000	µg/L	< 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	< 10	< 10	< 10	< 10	< 10	< 10
Fluorene	1,000	µg/L	< 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	< 10	< 10	< 10	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 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	< 10	< 10	< 10	< 10	< 10	< 10
Naphthalene	20	µg/L	< 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	< 10	< 10	< 10	< 10	< 10	< 10
Phenanthrene	10	µg/L	< 0.05	< 0.50	< 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	< 10	< 10	< 10	< 10	< 10	< 10
Pyrene	1,000	µg/L	< 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	< 10	< 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	< 0.02	< 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	< 0.0500	< 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	**0.305**	**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	< 0.01	< 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	< 0.0050	< 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	< 0.0100	< 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	< 0.0100	< 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	< 0.010	< 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	< 0.0100	< 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	< 0.00020	< 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	< 0.0002	< 0.0002	< 0.0002	**0.00014 B**	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.0200	< 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	< 0.0200	< 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	< 0.02	< 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	< 0.0100	< 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	< 0.0200	< 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 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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	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 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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-214																														
		Sample Date	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	07/01 DUP	1/17/2001
		Unit	Post-ISCO																				Pre-ISCO									
Field Parameters																																	
Conductivity	*	mS/cm	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	0.45	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	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	6.85	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	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	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 U	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2 U	--	--	--	--	--	--	--	--	--	--	--	--
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	< 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	< 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	< 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	< 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	**0.15 J**	1.0 U	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	< 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	**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	< 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	< 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	**0.32 J**	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	10 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	< 0.23	< 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	< 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	< 0.050	< 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	< 0.050	< 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	< 0.050	< 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	< 0.10	< 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	< 0.10	< 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	< 0.050	< 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	< 0.050	< 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	< 0.10	< 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	10 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	< 0.23	< 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	< 0.10	< 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	< 0.050	< 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	< 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	<0.50	< 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	< 0.050	< 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	**0.032 B**	**0.047 B**	**0.046 B**	**0.043 B**	0.2 U
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	< 0.020	< 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	0.02 U	**0.0071 J**
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	< 0.020	< 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	**0.379**	**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	< 0.01	< 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	**0.0076**	< 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	< 0.0100	< 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	< 0.0100	< 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	< 0.010	< 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	< 0.0100	< 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	0.0026 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	< 0.00020	< 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	< 0.0200	< 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	< 0.0200	< 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	< 0.02	< 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	< 0.0100	< 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	0.01 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	0.01 U
Zinc	2	mg/L	**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	**0.066**	**1.2**	**0.032**	**0.025**	0.02 U	0.02 U	**0.015 B**	**0.052**

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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-303																															
		Sample Date	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	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	0.34	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	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	6.25	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	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	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	0.84	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	< 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	< 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	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	< 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 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	< 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	< 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 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	< 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	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
Xylenes, total	2,000	µg/L	< 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	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	< 0.11	< 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	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	< 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	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 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	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	< 0.11	< 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	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	< 0.11	< 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	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	< 0.11	< 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	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	< 0.11	< 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	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	< 0.11	< 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	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	< 0.048	< 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	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	< 0.11	< 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	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	**0.8 J**	10 U	10 U
Fluoranthene	1,000	µg/L	< 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	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	< 0.11	< 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	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	< 0.11	< 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	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 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	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	**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	10 U	10 U	10 U	**1.2 J**	10 U	10 U
Pyrene	1,000	µg/L	**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	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	< 0.02	< 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	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	0.01 U	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**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**	**0.25**	**0.24**	**0.23**	**0.24**	**0.23**
Beryllium	0.004	mg/L	< 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	< 0.0050	< 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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**43.8**	**43.2**	**48**	**46**	**41**	**37**	**40**	**39**	**41**	**41**	**37**
Chromium	0.1	mg/L	< 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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.007 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	< 0.0100	< 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	< 0.010	< 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	< 0.0100	< 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	< 0.00020	< 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	0.0002 U	0.00020 U	0.00020 U
Nickel	0.1	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	**0.0073 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	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	< 0.0200	< 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	< 0.02	< 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	< 0.0100	< 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	< 0.0200	< 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 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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-304																																		
		Sample Date	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	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	0.32	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	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	6.03	6.04	6.1	6.30	6.02	6.35	6.11	6.11	6.11	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	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	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	< 0.075	< 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	< 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	**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	< 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	< 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	< 1.3	< 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	< 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	< 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	**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	**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	<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	**0.56**	**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	< 0.050	< 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	< 0.050	< 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	< 0.10	< 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	< 0.10	< 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	< 0.050	< 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	< 0.050	< 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	< 0.10	< 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	**0.38**	**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	**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	**0.064**	< 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	**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	**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	**0.39**	**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	**0.084 B**	--	0.2 U	**0.1 B**	**0.2 B**
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	< 0.020	< 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	< 0.0500	< 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	**0.384**	**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	< 0.01	< 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	< 0.0050	< 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	< 0.0100	< 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	< 0.0100	< 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	**0.009 J**	< 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	< 0.010	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	--	0.01 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	< 0.010	< 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	< 0.00020	< 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	< 0.0200	< 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	< 0.0200	< 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**	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	< 0.02	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	**0.0041 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	< 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	0.01 U	0.01 U	0.01 U	--	0.01 U	0.01 U	**0.0033 B**
Zinc	2	mg/L	**0.0475**	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0087	< 0.0087	< 0.0087	**0.010 J**	< 0.020	< 0.020	**0.016 J**	< 0.020	< 0.0200	< 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	0.02 U	**0.03**	0.02 U	0.02 U	--	0.02 U	0.02 U	**0.0059 B**

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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-306S																		
		Sample Date	2/14/2007	2/8/2006	1/12/2006	7/22/2005	07/05 DUP	1/20/2005	01/05 DUP	7/15/2004	07/04 DUP	1/22/2004	1/04 DUP	7/18/2003	7/03 DUP	1/15/2003	1/03 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	0.015 U	0.015 U	0.010 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 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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-306D																																
		Sample Date	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	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	0.41	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	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	6.14	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	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	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	< 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	< 0.25	< 0.25	**0.56 J**	< 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	1.0 U
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	< 5.0	< 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	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	< 5.0	< 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	1.0 U
Methylene Chloride	5	µg/L	< 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 UJ	< 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	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	< 5.0	< 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	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	< 5.0	< 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	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	< 5.0	< 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	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	< 0.5	< 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	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	< 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	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 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	10 U	10 U	10 U	10 U	10 U	**0.38 J**
Benz(a)anthracene	0.1	µg/L	< 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	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	< 0.19	< 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	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	< 0.19	< 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	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	< 0.19	< 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	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	< 0.19	< 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	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	< 0.19	< 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	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	< 0.19	< 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	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	**0.3 J**	10 U	10 U
Fluoranthene	1,000	µg/L	< 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	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	< 0.19	< 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	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	< 0.050	< 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	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	< 0.19	**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	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	10	µg/L	< 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	10 U	10 U	10 U	10 U	10 U	**1.2 J**
Pyrene	1,000	µg/L	< 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	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	< 0.02	< 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	--	0.01 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	< 0.05	< 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	**0.403**	**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	< 0.01	< 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	< 0.0050	< 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	< 0.0100	< 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	< 0.0100	< 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	< 0.010	< 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	< 0.0100	< 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	**0.0018 B**	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	< 0.00020	< 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	< 0.0200	< 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	< 0.0200	< 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	< 0.02	< 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	< 0.0100	< 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	**0.0323**	< 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 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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-306SAP																			
		Sample Date	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	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	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	-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	6.06	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	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	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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 0.50	< 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	< 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	< 0.050	< 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	< 0.050	< 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	< 0.050	< 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	< 0.10	< 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	< 0.10	< 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	< 0.050	< 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	< 0.050	< 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	< 0.10	< 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	< 0.10	< 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	< 0.10	< 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	< 0.050	< 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	**0.66**	< 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	< 0.50	< 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	< 0.05	< 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	< 0.02	< 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	< 0.0500	< 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	**0.682**	**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	< 0.01	< 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	< 0.0050	< 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	< 0.0100	< 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	< 0.0100	< 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	0.010	< 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	< 0.0100	< 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	< 0.00020	< 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	**0.306**	**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	< 0.0200	< 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	< 0.02	< 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	< 0.0100	< 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	< 0.0200	< 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 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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	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	**0.16 J**	1.0 U	1.0 U	**0.18 J**	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	1.0 U	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	10 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	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	<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	10 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	10 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	10 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	10 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	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10	µg/L	< 0.1	< 0.10	< 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	10 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	10 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	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.10	< 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	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	< 0.1	< 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	10 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	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	< 0.050	< 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	10 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	10 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	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	0.005 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	**0.21**	**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 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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	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
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	**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
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
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
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	**0.0032 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
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	**0.00078 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
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
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 U	0.0002 U	0.0002 U	0.0002 U	0.0002 UJ	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
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
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 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

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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	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 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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	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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* - Not a HSRA regulated compound
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Bold - analyte detected
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DB - Analyte concentration reported from secondary dilution; analyte detected in method blank
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ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
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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
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Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-310SAP																												
		Sample Date	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	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	0.44	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	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	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	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	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	< 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	**0.58 J**	< 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	**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	< 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	**0.35 J**	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	**0.13 J**	< 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
Methylene Chloride	5	µg/L	< 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	< 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
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	< 5.0	< 5	< 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	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	< 5.0	< 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
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	< 5.0	< 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
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	< 0.50	< 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	<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	< 0.050	< 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	< 0.050	< 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	< 0.050	< 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	< 0.10	< 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	< 0.10	< 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	< 0.050	< 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	< 0.050	< 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	< 0.10	< 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	< 0.10	< 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	< 0.10	< 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	< 0.050	< 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	< 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	10 U	10 U	10 U	--
Phenanthrene	10	µg/L	< 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	< 0.050	< 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	< 0.02	< 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	< 0.0500	< 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	**0.0801**	**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	< 0.01	< 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	< 0.0050	< 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	**0.0117**	< 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	< 0.0100	< 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	< 0.010	< 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	0.015 U	0.010 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	< 0.010	**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	< 0.00020	< 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	**0.287**	**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	< 0.0200	< 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	< 0.02	< 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	< 0.0100	< 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	< 0.0200	< 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 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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-311																									
		Sample Date	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	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	0.58	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	-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	6.08	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	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	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	< 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	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	< 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	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	< 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	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	< 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	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	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	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	0.64	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	< 0.050	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	< 0.050	< 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	< 0.10	< 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	< 0.10	< 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	< 0.050	< 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	< 0.050	< 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	< 0.10	< 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	< 0.10	< 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	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	< 0.050	< 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	250	560	12	12	5.5	55	< 0.22	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	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	< 0.050	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	< 0.02	< 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	< 0.0500	< 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	0.218	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	< 0.01	< 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	< 0.005	< 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	< 0.0100	< 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	< 0.0100	< 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	0.018	< 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	< 0.0100	< 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	< 0.00020	< 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	< 0.02	< 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	< 0.0200	< 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	< 0.02	< 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	< 0.0100	< 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	< 0.02	< 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 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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-312																			MW-314	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	10/5/2006	10/4/2006
		Unit	Post-ISCO								Pre-ISCO											Post-ISCO	Post-ISCO
Field Parameters																							
Conductivity	*	mS/cm	0.474	1.19	0.548	0.692	0.411	0.365	0.221	--	--	--	--	--	--	--	--	--	--	--	--	2.28	0.513
Dissolved Oxygen (YSI)	*	mg/L	2.25	6.45	0.68	0.27	0.58	3.20	1.07	--	--	--	--	--	--	--	--	--	--	--	--	0.15	0.47
Oxidation Reduction Potential	*	mV	-52.7	-47.8	-64.6	-93.1	-33.2	-7.8	20.2	--	--	--	--	--	--	--	--	--	--	--	--	-60.6	-112.7
pH	*	SU	6.92	0.539	7.03	6.61	7.62	7.16	6.45	--	--	--	--	--	--	--	--	--	--	--	--	6.25	6.81
Temperature	*	Celsius	30.67	18.27	28.11	23.69	23.59	22.53	24.72	--	--	--	--	--	--	--	--	--	--	--	--	23.94	25.53
Turbidity	*	NTU	7.99	3.2	8.62	1.25	0.56	1.04	0.00	--	--	--	--	--	--	--	--	--	--	--	--	8.41	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 U	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 U	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 U	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 U	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 U	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 U	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 U	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 U	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	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	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	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	10 U	10 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	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
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	10 U	10 U	10 U	10 U	10 U	10 U	0.05 U	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	10 U	10 U	10 U	10 U	10 U	10 U	0.05 U	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	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	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	10 U	10 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	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	< 0.19	< 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	10 U	10 U	10 U	10 U	10 U	10 U	0.05 U	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	10 U	10 U	10 U	10 U	10 U	10 U	0.1 U	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	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	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
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	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	< 0.19	< 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	10 U	10 U	10 U	10 U	10 U	10 U	0.05 U	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	10 U	10 U	10 U	10 U	10 U	10 U	10 U	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	10 U	10 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	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	--	--	--	--	--	--	--	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	0.02 U	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 U	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**	**0.958**	**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	0.01 U	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 U	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 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	0.010 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 U	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 U	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 U	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 U	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 U	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 U	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	0.001 U	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 U	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**	0.02 U	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

Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-401D																																			
		Sample Date	7/30/2015	1/14/2015	7/17/2014	1/13/2014	7/10/2013	1/9/2013	7/24/2012	1/18/2012	7/6/2011	1/19/2011	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	7/05 DUP	1/18/2005	1/05 DUP	7/12/2004	7/04 DUP	1/23/2004	1/04 DUP	7/15/2003	7/03 DUP	1/16/2003	1/03 DUP	7/16/2002	1/16/2002	7/17/2001	1/24/2001
		Unit	Post-ISCO																				Pre-ISCO															
Field Parameters																																						
Conductivity	*	mS/cm	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	0.37	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	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	6.26	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	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	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	< 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	25 U	25 U
Benzene	5	µg/L	< 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	< 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	< 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	< 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	1.0 U	0.02 U	1.0 U
Methylene Chloride	5	µg/L	< 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	< 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	1.0 U	1.0 U	**0.39 J**	1.0 U	0.02 U	1.0 U
Trichloroethylene	5	µg/L	**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	< 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	2.0 U	40 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	20 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	< 0.20	< 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	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	< 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	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 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	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	< 0.050	< 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	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	< 0.050	< 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	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	< 0.10	< 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	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	< 0.10	< 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	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.050	< 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	10 U	10 U	20 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	< 0.20	< 0.043	< 0.043	< 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	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
Dibenzo(a,h)anthracene	0.3	µg/L	< 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	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	10 U	10 U	20 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	< 0.20	< 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	10 U	10 U	20 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	< 0.20	< 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	10 U	10 U	20 U	10 U	10 U	10 U	**0.68 J**	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.20	< 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	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 0.5	**5.1**	< 0.50	**0.69**	**0.95**	< 0.19	**0.60**	**2.9**	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	10 U	10 U	20 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	< 0.19	< 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	10 U	10 U	20 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	< 0.20	< 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	10 U	10 UJ	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	**0.24**	**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	< 0.02	< 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	0.006 U	0.006 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	0.02 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	< 0.020	< 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	0.01 U	0.010 U	0.010 U	0.01 U	**0.0044 B**	0.01 U	0.01 U
Barium	2	mg/L	**0.0775**	**0.0847**	**0.0686**	**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**	**0.070**	**0.065**	**0.15**	**0.076**	**0.066**
Beryllium	0.004	mg/L	< 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
Cadmium	0.005	mg/L	**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 UJ	0.005 UJ	0.0050 U	0.0050 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	< 0.0100	< 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 UJ	0.01 UJ	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 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	< 0.0100	< 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	**0.00093 B**	**0.028**	**0.0034 B**	**0.0010 B**
Cyanide	0.2	mg/L	< 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	< 0.002	0.01 U	0.01 U	0.01 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	**0.028**	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	< 0.010	< 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 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	< 0.0002	< 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 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.00020 U	0.0002 U	**0.000072 B**	0.0002 U	0.00020 U
Nickel	0.1	mg/L	< 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	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 UJ	0.04 UJ	0.040 U	0.040 U	0.04 U	**0.026 B**	0.04 U	0.04 U
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**5.13**	**4.59**	**4.52**	**5**	**5.2**	**8**	**8.1**	**7.4**	**7.6**	**10**	**11**	**8.2**	**8.3**	**7.8**	**8.5**	**7.7**	**7.8**
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	< 0.020	< 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	0.010 U	0.010 U	**0.0054 B**	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**42.9**	**40.3**	**39.3**	**39**	**40**	**75**	**77**	**74**	**75**	**37**	**82**	**87**	**87**	**79**	**84**	**78**	**76**
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	< 0.0010	< 1.00	< 1.00	< 1	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	0.0020 UWN	0.0020 UWN	0.002 UW	0.002 U	0.002 UN	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	**0.0025 J**	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	**0.0023 J**	**0.0021 J**	< 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	0.01 U	0.01 U	0.01 UJ	0.01 UJ	**0.0032 B**	**0.0034 B**	0.01 U	**0.099**	**0.013**	**0.0024 B**
Zinc	2	mg/L	**0.0839**	**0.0387**	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0087	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	< 0.020	**0.011 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	0.02 U	0.02 U	0.02 U	**0.05**	**0.03**	**0.0081 B**	0.020 U	0.02 U	**0.052**	**0.0094 B**	**0.013 B**

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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-401S																																	
		Sample Date	7/30/2015	7/30 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	01/08 DUP	7/11/2007	2/13/2007	10/4/2006	7/13/2006	7/06 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	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	0.69	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	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	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	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	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	< 100	< 100	< 25	< 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	**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	< 1.3	< 1.3	< 0.25	13	< 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	**6.9**	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	< 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	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	< 0.55	< 0.55	< 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	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	< 5	--	5 U	5 U	10 U	17 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	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	< 1.7	< 1.7	**0.90 J**	**3.4 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	**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	**5.3**	**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	< 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	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	10 U	10 U	10 U	--	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	< 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	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 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
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.097	< 0.099	< 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
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.097	< 0.099	< 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
Benzo(b)fluoranthene	0.2	µg/L	< 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	< 0.10	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 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
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 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	< 0.10	< 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	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	< 0.1	< 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	< 0.10	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 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	**21**	< 0.50	< 0.50	**1.2**	< 0.50	< 0.20	< 0.19	< 0.097	< 0.099	< 0.096	**0.71**	<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	< 0.5	< 0.050	< 0.050	< 0.050	< 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
Pyrene	1,000	µg/L	< 0.05	< 0.05	**0.064**	< 0.050	< 0.050	< 0.050	< 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 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	**0.24**	**17**	0.2 U	**0.10 B**	**0.043 B**	--	**0.036 B**	**1.7 N**	**0.21**
Antimony	0.01	mg/L	< 0.02	< 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	< 0.0200	< 0.020	< 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	< 0.0500	< 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	0.01 U	0.010 U	0.01 U	--	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.0916**	**0.097**	**0.112**	**0.121**	**0.100**	**0.0941**	**0.06**	**0.064**	**0.067**	**0.061**	**0.057**	**0.051**	**0.043**	**0.05**	**0.059**	**0.0482**	**0.0479**	**0.0439**	**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	< 0.01	< 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	< 0.010	--	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	--	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	< 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 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	< 0.0100	< 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	0.01 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 UJ	**0.0053 B**	**0.0063 B**	--	**0.0078 B**	**0.011**	**0.0066 B**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.0100	< 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	0.02 U	0.020 U	0.02 U	--	**0.001 B**	0.02 U	**0.096**
Cyanide	0.2	mg/L	< 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	< 0.002	--	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	--	0.01 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 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	< 0.00020	< 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	--	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	**0.00011 B**	0.0002 U	--	0.0002 U	0.0002 U	0.00020 U
Nickel	0.1	mg/L	< 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 U	0.04 U	--	0.04 U	0.04 U	0.04 U
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	**2.06**	**3.1**	**4.1**	**3.9**	**6.1**	**4.4**	**4.5**	--	**4.7**	**4.2**	**3.2**
Selenium	0.05	mg/L	< 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	< 0.0200	< 0.0200	< 0.020	< 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	--	0.01 U	0.01 U	0.01 U
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**52.1**	**43.9**	**36**	**56**	**67**	**62**	**76**	**75**	--	**78**	**76**	**76**
Thallium	0.002	mg/L	< 0.02	< 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	< 1.00	< 1.00	< 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 UW	--	0.002 UW	0.002 UN	0.002 U
Vanadium (fume or dust)	0.2	mg/L	< 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	< 0.0100	< 0.0100	< 0.010	< 0.010	--	0.01 U	0.01 U	0.007 U	0.01 U	0.01 U	0.01 U	**0.034**	0.01 UJ	0.010 U	0.01 U	--	0.01 U	**0.0044 B**	0.01 U
Zinc	2	mg/L	< 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	< 0.0200	< 0.0200	< 0.020	< 0.02	--	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.028**	**0.03**	0.020 U	0.02 U	--	0.02 U	**0.0092 B**	**0.062**

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

B = Analyte was found in the blank and sample
D = Surrogate or matrix spike recoveries were not obtained due to dilution of extract
F = MS or MSD exceeds the control limits
H = Sample was prepped or analyzed beyond specified holding time
* = LCS or LCSD exeeds the control limits

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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-401SAP																															
		Sample Date	7/28/2015	1/29/2015	1/15 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	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	0.99	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	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	5.85	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	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	1.97	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	< 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	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	< 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	1.0 U	**0.96 J**	1.0 U	1.0 U	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	< 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	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	< 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	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	< 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	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	< 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	1.0 U	**0.38 J**	1.0 U	1.0 U	**0.7 J**
Trichloroethylene	5	µg/L	**17**	**19**	**20**	**23**	**25**	**27**	**18**	**14**	**8.7**	**1.4 J**	**1.6 J**	**1.3 J**	< 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	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	< 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	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	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	2,000	µg/L	< 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	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	<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	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 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 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	< 0.050	<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	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	< 0.050	<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	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	< 0.10	<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	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	< 0.10	<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	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	< 0.050	<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 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	< 0.050	<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	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	< 0.10	<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	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	< 0.1	< 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	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	< 0.10	<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	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	< 0.050	<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	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	**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	**19**
Phenanthrene	10	µg/L	< 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	10 U	10 U	10 U	10 U	10 U	**0.38 J**
Pyrene	1,000	µg/L	< 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	10 U
Inorganic Compounds																																		
Aluminum (fume or dust)	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	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	< 0.02	< 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	0.02 U
Arsenic	0.05	mg/L	< 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	**0.0623**	**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	< 0.01	< 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	0.004 U
Cadmium	0.005	mg/L	< 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	< 0.0100	< 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 UJ	0.01 U	0.01 U	0.01 U	0.01 U	**0.0035 B**
Copper	1.3	mg/L	< 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	< 0.010	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0100	< 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	**0.00042**	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	< 0.0200	< 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	< 0.0200	< 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	< 0.02	< 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	0.001 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	< 0.0100	< 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	< 0.02	< 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 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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-402S																												
		Sample Date	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	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	0.95	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	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	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	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	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	< 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	25 U
Benzene	5	µg/L	< 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	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	< 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	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	<5.0	< 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	1.0 U
Methylene Chloride	5	µg/L	< 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	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	<5.0	< 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
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	<5.0	< 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	< 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	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	**860 D**
Acenaphthene	2,000	µg/L	< 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	10 U	10 U	10 U	10 U	10 U	**100**
Acenaphthylene	10	µg/L	< 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	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 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	10 U	10 U	10 U	10 U	10 U	**13**
Benz(a)anthracene	0.1	µg/L	< 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	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	< 0.21	< 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	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	< 0.21	< 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	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	< 0.21	< 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	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	< 0.21	< 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	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	< 0.21	< 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	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	< 0.21	< 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	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	**24**
Fluoranthene	1,000	µg/L	< 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	10 U	10 U	10 U	10 U	10 U	**5.9 J**
Fluorene	1,000	µg/L	< 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	10 U	10 U	10 U	10 U	10 U	**43**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 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	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	< 0.21	< 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	10 U	10 U	10 U	10 U	**0.54 J**	**12,000 D**
Phenanthrene	10	µg/L	< 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	10 U	10 U	10 U	10 U	10 U	**42**
Pyrene	1,000	µg/L	< 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	10 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	**270,000**	**540**	**250,000 N**	**410,000 N**	**230 N**
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	< 0.020	< 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	0.02 U	0.020 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	**0.22**	< 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	**0.011**	0.01 U	**0.0050 B**	**0.021**	0.01 U
Barium	2	mg/L	**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	< 0.01	< 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	**0.01**	0.004 U	**0.011**	**0.016**	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	< 0.0050	< 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	0.0050 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	< 0.0100	< 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	< 0.0100	< 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	< 0.010	< 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	0.015 U	0.01 U	0.01 U	0.010 U	0.01 U	0.01 U
Lead	0.015	mg/L	< 0.01	< 0.0100	< 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	**0.071**	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	< 0.00020	< 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	< 0.0200	< 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	**0.094**	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	< 0.0200	< 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	0.010 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	< 0.02	< 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	< 0.0100	< 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	**0.38**	0.01 U	**0.41**	**0.6**	0.01 U
Zinc	2	mg/L	< 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	**0.35**	0.02 U	**0.34**	**0.51**	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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-402D																														
		Sample Date	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	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	0.75	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	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	6.21	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	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	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	< 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	< 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	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	< 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	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	< 5.0	< 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
Methylene Chloride	5	µg/L	< 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	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	< 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	1.0 U
Trichloroethylene	5	µg/L	< 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	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	< 5.0	< 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	10 U
Acenaphthene	2,000	µg/L	< 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	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	<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	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10	µg/L	< 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	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	<0.22	< 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	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	<0.22	< 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	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	<0.22	< 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	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	<0.22	< 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	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	<0.22	< 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	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	<0.22	< 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	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	<0.22	< 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	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	<0.22	< 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	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	<0.22	< 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	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	<0.22	< 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	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	20	µg/L	< 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	< 0.50	< 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	0.2 U	10 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	<0.22	< 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	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	< 0.02	< 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	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	< 0.020	< 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	**0.079**	**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	< 0.01	< 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	**0.0065**	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	< 0.0050	< 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	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	< 0.0100	< 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	**0.046**	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	< 0.0100	< 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	< 0.010	< 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	< 0.0100	< 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	< 0.00020	< 0.00020	**0.00042**	< 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	**0.00022**	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	< 0.0200	< 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	< 0.0200	< 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	< 0.02	< 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	< 0.0100	< 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	**0.0166**	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	< 0.0200	< 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	**0.03**	**0.008 B**	**0.016 B**	**0.0098 B**	0.02 U	0.02 U	**0.026**

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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-404DR																																
		Sample Date	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	01/01 DUP
		Unit	Post-ISCO																			Pre-ISCO													
Field Parameters																																			
Conductivity	*	mS/cm	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	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	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	6.47	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	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	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	< 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
Benzene	5	µg/L	< 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	**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	< 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**	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	< 0.11	< 0.11	< 0.11	**0.17 J**	< 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	**0.37 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	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	5 U	5.0 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	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	**0.89 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	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	< 5.0	< 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	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	< 5.0	< 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	10 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	<0.21	< 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	10 U
Acenaphthylene	10	µg/L	< 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	10 U
Anthracene	10	µg/L	< 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	10 U
Benz(a)anthracene	0.1	µg/L	< 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	10 U
Benzo(a)pyrene	0.2	µg/L	< 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	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 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	10 U
Benzo(g,h,i)perylene	10	µg/L	< 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	10 U	**0.7 J**	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10	µg/L	< 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	10 U
Chrysene	0.2	µg/L	< 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	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 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	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	10 U
Fluoranthene	1,000	µg/L	< 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	10 U
Fluorene	1,000	µg/L	< 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	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 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	10 U
Naphthalene	20	µg/L	< 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	10 U
Phenanthrene	10	µg/L	< 0.05	< 0.50	**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	10 U
Pyrene	1,000	µg/L	< 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	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	< 0.02	< 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	< 0.0500	< 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	**0.118**	**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	< 0.01	< 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	< 0.0050	< 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	< 0.0100	< 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	< 0.0100	< 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	< 0.010	< 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	< 0.0100	< 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	< 0.00020	< 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	< 0.0200	< 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	< 0.0200	< 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	< 0.02	< 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	< 0.0100	< 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	< 0.02	< 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 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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-408S																											
		Sample Date	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	01/09 DUP	1/21/2009	7/16/2008	1/8/2008	7/10/2007	7/13/2006	7/06 DUP	1/15/2006	01/06 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	1517	1.6	1.541	1.241	1.299	1.059	0.797	0.662	1.509	1.51	1.492	1.676	1.214	0.3	1.235	1.210	0.991	1.112	1.112	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (YSI)	*	mg/L	0.95	0.71	0.12	0.23	1.14	0.51	0.51	0.43	0.19	6.67	5.75	0.73	0.3	6.51	0.49	0.30	1.18	0.3	0.3	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential	*	mV	-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	6.37	7.36	6.46	6.92	6.83	6.62	6.64	6.19	6.32	1.321	6.41	7.48	6.51	1.214	6.44	6.49	6.60	6.58	6.58	--	--	--	--	--	--	--	--	--
Temperature	*	Celsius	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	9.64	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	< 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	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	< 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	< 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	**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	< 1.0	**3.4 J B**	< 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	< 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	< 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	**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																														
Acenaphthene	2,000	µg/L	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.19	< 0.19	**65**	< 0.10	< 0.096	< 0.19	< 0.19	**0.089 J**	**0.086 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	< 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	< 0.050	**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	< 0.050	< 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	< 0.050	< 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	< 0.10	< 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	< 0.10	< 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	< 0.050	< 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	< 0.050	< 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	< 0.10	< 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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2 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	**0.26**	< 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	**0.40**	< 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	< 0.050	< 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	**1.2**	< 0.50	**44**	< 0.50	< 0.50	< 0.19	**3.6**	**0.59**	< 0.10	**0.12 J**	< 0.19	**0.35**	**1.4**	**1.3**	< 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	<0.050	**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	**0.096**	< 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	< 0.02	< 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	< 0.05	**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	**0.599**	**0.444**	**0.451**	**0.289**	**0.201**	**0.38**	**0.45**	**0.54**	**0.62**	**0.60**	**0.55**	**0.58**	**0.45**	**0.44**	**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	< 0.01	< 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	< 0.0050	< 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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**71.7**	**75.6**	**89.2**	**89**	**79**	**80**	**78**	**88**	**79**
Chromium	0.1	mg/L	< 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	< 0.0100	< 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	< 0.010	< 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	< 0.0100	< 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	< 0.00020	< 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	< 0.0200	< 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	< 0.0200	< 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	< 0.02	< 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	< 0.0100	< 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	< 0.0200	< 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 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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	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	2/07 DUP	7/13/2006	7/06 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	1/01 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
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 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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-408DR									
		Sample Date	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	786	1.310	0.645	0.630	0.755	0.597	0.390	0.170	0.619	3.360
Dissolved Oxygen (YSI)	*	mg/L	1.1	0.84	0.10	0.22	0.05	0.53	4.20	0.31	0.08	5.68
Oxidation Reduction Potential	*	mV	-60.1	-103.5	-83.8	-55.5	-53.7	-61.8	-13.5	-136.0	-50.9	89.2
pH	*	SU	5.89	6.29	6.12	6.21	5.98	6.08	6.03	6.71	6.03	0.682
Temperature	*	Celsius	24.7	13.70	21.10	18.61	21.17	18.05	24.35	19.98	21.79	20.79
Turbidity	*	NTU	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	< 100	< 100	< 5.0	< 5.0	**19 J**
Benzene	5	µg/L	< 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	< 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	< 0.11	< 0.11	< 0.11
Ethylbenzene	700	µg/L	< 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	< 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	< 0.13	< 0.13	< 0.13
Xylenes, total	2,000	µg/L	< 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	**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	**0.40**	< 1.9	< 0.11	< 0.15	**0.22**
Anthracene	10	µg/L	**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	< 0.050	< 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	< 0.050	< 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	< 0.10	< 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	< 0.10	< 0.10	< 0.10	< 0.10	<0.22	< 1.9	< 0.11	< 0.15	< 0.094
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.22	< 1.9	< 0.11	< 0.15	< 0.094
Chrysene	0.2	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.22	< 1.9	< 0.050	< 0.066	< 0.042
Dibenzo(a,h)anthracene	0.3	µg/L	< 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	**0.16**	< 0.10	**0.23**	**0.23**	**0.10**	**0.23**	< 1.9	< 0.11	**0.29**	< 0.094
Fluorene	1,000	µg/L	**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	< 0.050	< 0.050	< 0.050	< 0.050	<0.22	< 1.9	< 0.11	< 0.15	< 0.094
Naphthalene	20	µg/L	**0.63**	< 500	**31**	**0.57**	< 0.50	**0.27**	< 1.9	**0.57**	**0.24 J**	**0.23**
Phenanthrene	10	µg/L	**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	**0.15**	< 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	< 0.02	< 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	**0.429**	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	**0.045**	< 0.0046	< 0.0046
Barium	2	mg/L	**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	< 0.01	< 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	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020
Chromium	0.1	mg/L	< 0.01	< 0.0100	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	< 0.0019
Cyanide	0.2	mg/L	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	**0.0063 J**	**0.024**	< 0.0050
Lead	0.015	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040
Mercury	0.002	mg/L	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	**0.000092 J**
Nickel	0.1	mg/L	< 0.02	< 0.0200	< 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	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064
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
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
Zinc	2	mg/L	< 0.02	< 0.0200	**0.132**	< 0.0200	< 0.0200	**0.038**	< 0.020	< 0.0087	< 0.0087	**0.018 J**

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
H - Holding time exceeded
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank
RRS - Risk Reduction Standard

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-501S															
		Sample Date	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	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	0.22	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 Potent	*	mV	-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	6.76	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	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	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	< 100	< 100	< 5.0	< 5.0	< 5.0	< 100	< 100	< 100	**7.6 J**	< 50	< 50
Benzene	5	µg/L	< 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	< 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	5.3	< 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	< 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	**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	< 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	< 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	< 0.50	< 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	<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	< 0.050	< 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	< 0.050	< 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	< 0.050	< 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	< 0.10	< 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	< 0.10	< 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	< 0.050	< 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	< 0.050	< 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	< 0.10	< 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	< 0.10	< 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	< 0.10	< 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	< 0.050	< 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	**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	< 0.50	< 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	< 0.050	< 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	< 0.02	< 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	< 0.0500	< 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	**0.152**	**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	< 0.01	< 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	**0.0153**	< 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	< 0.0100	< 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	< 0.0100	< 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	< 0.010	< 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	< 0.0100	< 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	< 0.00020	< 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	< 0.0200	< 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	< 0.0200	< 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	< 0.02	< 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	< 1.00
Vanadium (fume or dust)	0.2	mg/L	< 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	**0.0276**	< 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 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
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

Appendix E-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-502D																			
		Sample Date	1/14/2014	1/14 DUP	1/10/2013	1/13 DUP	7/25/2012	7/2012 DUP	1/19/2011	01/11 DUP	7/7/2011	1/19/2011	7/19/2010	1/12/2010	1/10 DUP	7/23/2009	1/21/2009	7/21/2008	1/8/2008	7/10/2007	07/07 DUP	2/14/2007
		Unit																				
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 Potent	*	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 analyzed
* - Not a HSRA regulated compound
** - Sample not collected due to DNAPL
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-1
Summary of Historical Groundwater Sampling Data - Alluvium, Galliard, and Saprolite Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-505D																				
		Sample Date	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 DUP	1/18/2011	7/14/2010	1/6/2010	7/28/2009	07/09 DUP	01/09 DUP	1/20/2009	7/15/2008	1/9/2008	7/11/2007	2/15/2007
		Unit	Post-ISCO																				
Field Parameters																							
Conductivity	*	mS/cm	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	0.26	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 Potent	*	mV	-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	6.1	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	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	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 *	1,100	910	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	1000	270	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	17	18	21	30	20	17
Volatile Organic Compounds																							
Acetone	4,000	µg/L	< 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	< 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	**2.6 J**	**1.8 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	< 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	**5.9**	**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	< 1.0	**3.4 J B ***	**2.8 J B**	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	**0.53 J**	**0.58 J**	< 5.0	< 5.0	< 5	< 5
Toluene	1,000	µg/L	< 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	< 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	**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	**9.5**	< 0.50	**47**	**55**	**56**	**6.6**	**36**	**87**	**51**	**71**	**63**	**36**	**48**	**51 D**	**52 D**	**34**	**29**	**54**	**53**	**37**	**33**
Acenaphthylene	10	µg/L	< 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**	**17**	**16**	**14**	**40**	**20**	**20**
Anthracene	10	µg/L	**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	**0.055 J**	**0.056 J**	**0.064 J**	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 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	**0.051**	**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	< 0.10	**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	**0.11**	< 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	< 0.050	**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	< 0.050	**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	**0.11**	**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	**0.27**	< 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**	**0.37**	**0.3**	**0.31**	< 10	< 10	< 10
Fluorene	1,000	µg/L	**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**	**4.5**	**3.9**	**5.2**	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 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	**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	**1.6**	< 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	**0.061 J**	**0.058 J**	**0.074 J**	< 10	< 10	< 10
Pyrene	1,000	µg/L	**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**	**0.33**	**0.3**	**0.35**	< 10	< 10	< 10
Inorganic Compounds																							
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	< 0.0053	< 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	< 0.0500	< 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	**0.383**	**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**	**0.36**	**0.3**	**0.33**	**0.314**	**0.458**	**0.436**
Beryllium	0.004	mg/L	< 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	< 0.0050	< 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	< 0.0100	< 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	< 0.0100	< 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	< 0.010	< 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	**0.0051 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
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	< 0.0040	< 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	< 0.00020	< 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	< 0.0200	< 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	< 0.0200	< 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	< 0.02	< 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	< 0.0100	< 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	**0.0781**	**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	**0.010 J**	**0.013 J**	< 0.020	< 0.0200	< 0.02	< 0.02

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
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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 July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-600							
		Sample Date	1/14/2015	7/16/2014	1/9/2014	7/11/2013	07/13 DUP	1/10/2013	7/26/2012	1/25/2012**
		Unit	Post-ISCO							
Field Parameters										
Conductivity	*	mS/cm	0.257	0.529	0.416	0.293	0.293	0.396	0.375	0.430
Dissolved Oxygen (YSI)	*	mg/L	0.18	0.43	0.58	0.26	0.26	0.79	1.2	0.46
Oxidation Reduction Potent	*	mV	-71.3	-73.9	-43.7	-24.1	-24.1	8.7	-32.1	-28.0
pH	*	SU	6.1	6.33	6.45	6.70	6.70	6.61	6.70	6.22
Temperature	*	Celsius	17.9	22.93	21.27	21.54	21.54	26.44	24.33	22.87
Turbidity	*	NTU	53	45.8	19.9	9.60	9.60	24.20	8.05	> 999
Monitored Natural Attenuation Parameters										
Carbon Dioxide	*	µg/L	--	--	--	--	--	--	--	--
Iron, as Ferrous (Fe+2)	*	mg/L	--	--	--	--	--	--	--	--
Methane	*	µg/L	--	--	--	--	--	--	--	--
Nitrate	*	mg/L	--	--	--	--	--	--	--	--
Oxygen	*	mg/L	--	--	--	--	--	--	--	--
Sulfate	*	mg/L	--	--	--	--	--	--	--	--
Volatile Organic Compounds										
Acetone	4,000	µg/L	< 25,000	< 25,000	< 2,500	< 2,500	< 2,500	< 20,000	< 5,000	< 100
Benzene	5	µg/L	**25,000**	**25,000**	**20,000**	**7,000**	**5,900**	**26,000**	**48,000 D**	**440**
Carbon Disulfide	4,000	µg/L	< 2,500	< 2500	< 250	< 250	< 250	<1,000	< 250	< 12
Ethylbenzene	700	µg/L	< 250	< 2500	**2,400**	**990**	**760**	**1,300**	**1,300**	**1,600**
Methylene Chloride	5	µg/L	< 5.0	< 2500	< 250	< 250	< 250	<1,000	< 250	< 20
Toluene	1,000	µg/L	**8,500**	**17,000**	**12,000**	**5,300**	**4,300**	**12,000**	**24,000 D**	**72 J**
Trichloroethylene	5	µg/L	< 2,500	< 2500	< 250	< 250	< 250	<1,000	< 250	< 2.6
Xylenes, total	2,000	µg/L	2,600	**4,600**	**3,700**	**2,100**	**1,600**	**3,000**	**5,100 D**	**1,200**
Semivolatile Organic Compounds										
Acenaphthene	2,000	µg/L	**14**	**9.2**	**21**	**6.2**	**6.3**	< 22	< 190	**200**
Acenaphthylene	10	µg/L	**120**	**210**	**190**	**53**	< 100	**93**	< 190	**67**
Anthracene	10	µg/L	**2.4**	**8.9**	**5.6**	**1.5**	**1.7**	< 22	< 190	**43**
Benz(a)anthracene	0.1	µg/L	**0.38**	**2.8**	**0.97**	< 0.50	**0.31**	< 22	< 190	**35**
Benzo(a)pyrene	0.2	µg/L	**0.3**	**2.1**	**0.72**	< 0.50	**0.23**	< 22	< 190	**35**
Benzo(b)fluoranthene	0.2	µg/L	**0.28**	**1.8**	**0.47**	< 1.0	**0.19**	< 22	< 190	**27**
Benzo(g,h,i)perylene	10	µg/L	**0.16**	**0.79**	**0.26**	< 1.0	< 0.10	< 22	< 190	**14**
Benzo(k)fluoranthene	10	µg/L	**0.085**	**0.68**	**0.18**	< 0.50	**0.096**	< 22	< 190	**13**
Chrysene	0.2	µg/L	**0.3**	**2.1**	**0.66**	< 0.50	**0.26**	< 22	< 190	**28**
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.10	**0.2**	< 0.10	**1.0**	< 0.10	< 22	< 190	**4.5**
Fluoranthene	1,000	µg/L	**1.2**	**6.9**	**3.2**	**1.0**	**1.2**	< 22	< 190	**53**
Fluorene	1,000	µg/L	**20**	**48**	**39**	**12**	**16**	< 22	< 190	**92**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	**0.11**	**0.69**	**0.21**	< 0.50	**0.065**	< 22	< 190	**12**
Naphthalene	20	µg/L	**5,400**	**10,000**	**7,700**	**2,500**	**2,900**	**5,700**	**8,200**	**6,300**
Phenanthrene	10	µg/L	**15**	**53**	**36**	**9.8**	**9.6**	< 22	< 190	**170**
Pyrene	1,000	µg/L	**1.8**	**8.5**	**3.8**	**1.2**	**1.4**	< 22	< 190	**68**
Inorganic Compounds										
Antimony	0.01	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053
Arsenic	0.05	mg/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046
Barium	2	mg/L	**0.157**	**0.315**	**0.197**	**0.0615**	**0.0613**	**0.097**	**0.25**	**0.66**
Beryllium	0.004	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020
Cadmium	0.005	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020
Chromium	0.1	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0019 J**
Copper	1.3	mg/L	**0.0312**	< 0.0100	**0.0351**	**0.0292**	**0.0298**	**0.021**	< 0.020	< 0.0019
Cyanide	0.2	mg/L	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	**0.0080 J**
Lead	0.015	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040
Mercury	0.002	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091
Nickel	0.1	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	< 0.0023
Selenium	0.05	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064
Thallium	0.002	mg/L	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025
Vanadium (fume or dust)	0.2	mg/L	< 0.0100	**0.0102**	< 0.0100	< 0.0100	< 0.0100	<0.010	**0.015**	< 0.0024
Zinc	2	mg/L	**0.208**	**0.058**	**0.288**	**1.53**	**1.59**	**0.099**	**0.15**	< 0.0087

Chemical Name	MW-601									
	7/30/2015	7/30 DUP	1/14/2015	7/16/2014	1/9/2014	7/11/2013	1/10/2013	7/25/2012	1/19/2012	7/6/2011	1/20/2011
	Post-ISCO										
Field Parameters											
Conductivity	590	590	0.529	0.565	0.421	0.543	0.569	0.658	0.649	0.645	0.46
Dissolved Oxygen (YSI)	0.3	0.3	0.28	0.23	0.24	0.34	0.19	2.94	0.15	0.25	0.22
Oxidation Reduction Potent	234.1	234.1	-42.8	-137.3	-66.0	-121.2	-103.8	-61.0	-80.0	-84.5	-77.0
pH	6.08	6.08	5.92	6.05	6.22	6.01	5.96	5.22	6.16	6.00	5.85
Temperature	25.7	25.7	15.8	23.11	18.95	21.41	22.47	25.42	22.04	22.88	19.84
Turbidity	35.5	35.5	3.12	8.56	8.79	8.16	9.14	3.27	1.1	26.2	16.9
Monitored Natural Attenuation Parameters											
Carbon Dioxide	--	--	--	--	--	--	--	--	--	--	--
Iron, as Ferrous (Fe+2)	--	--	--	--	--	--	--	--	--	--	--
Methane	--	--	--	--	--	--	--	--	--	--	--
Nitrate	--	--	--	--	--	--	--	--	--	--	--
Oxygen	--	--	--	--	--	--	--	--	--	--	--
Sulfate	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds											
Acetone	< 2500	< 2500	< 5,000	< 5,000	< 5,000	< 2,500	< 2,500	< 25,000	< 1,300	**740 J**	< 500
Benzene	**20000**	**21000**	**6,900**	**31000**	**18,000**	**18,000**	**28,000**	**27,000**	**21,000**	**22,000 D**	**14,000**
Carbon Disulfide	< 250	< 250	< 500	< 500	< 500	< 250	<130	< 1,300	< 150	< 60	< 60
Ethylbenzene	**1400**	**1500**	**960**	**1,600**	**1,300**	**1,000**	**950**	< 1,300	**950 J**	**890**	**440 J**
Methylene Chloride	< 250	< 250	< 5.0	< 500	< 500	< 250	<130	< 1,300	< 250	< 100	< 100
Toluene	**12000**	**14000**	**2,100**	**16,000**	**6,100**	**8,700**	**13,000**	**11,000**	**8,800**	**10,000**	**7,400**
Trichloroethylene	< 250	< 250	< 500	< 500	< 500	< 250	<130	< 1,300	< 33	< 13	< 13
Xylenes, total	**3500**	**3400**	**1,900**	**4,200**	**2,500**	**3,400**	**3,700**	**3,800**	**3,300**	**3,700**	**3,000**
Semivolatile Organic Compounds											
Acenaphthene	**1.0**	**5.6**	**12**	**4.6**	**14**	**18**	**19**	< 210	**18**	**12**	**16**
Acenaphthylene	**5**	< 1.000	**45**	**70**	**50**	**64**	**81**	< 210	**75**	**65**	**68**
Anthracene	**3.7**	**2.8**	**4.4**	**4.7**	**7.7**	**6.7**	< 19	< 210	**7.1 J**	**5.2 J**	**5.5**
Benz(a)anthracene	< 0.05	**0.14**	< 0.050	**0.24**	**0.4**	< 0.50	< 19	< 210	< 4.8	< 4.7	< 1.0
Benzo(a)pyrene	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.50	< 19	< 210	< 4.8	< 4.7	< 1.0
Benzo(b)fluoranthene	< 0.1	< 0.1	< 0.10	< 0.10	< 0.1	< 1.0	< 19	< 210	< 4.8	< 4.7	< 1.0
Benzo(g,h,i)perylene	< 0.1	< 0.1	< 0.10	< 0.10	< 1.0	< 1.0	< 19	< 210	< 4.8	< 4.7	< 1.0
Benzo(k)fluoranthene	< 0.05	< 0.05	< 0.050	< 0.050	< 0.50	< 0.50	< 19	< 210	< 4.8	< 4.7	< 1.0
Chrysene	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.50	< 19	< 210	< 2.2	< 2.1	< 0.45
Dibenzo(a,h)anthracene	< 0.1	< 0.1	< 0.10	< 0.10	< 0.1	< 1.0	< 19	< 210	< 4.8	< 4.7	< 1.0
Fluoranthene	**0.35**	**0.27**	**0.49**	**0.4**	**0.67**	< 1.0	< 19	< 210	< 4.8	< 4.7	**2.3**
Fluorene	**3**	**16**	**36**	**0.19**	**42**	**53**	**64**	< 210	**63**	**50**	**60**
Indeno(1,2,3-cd)pyrene	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.50	<1 9	< 210	< 4.8	< 4.7	< 1.0
Naphthalene	**6600**	**4300**	6,500	**8,700**	**8,400**	**9,900**	**11,000**	**11,000**	**770**	**8,900**	**9,800**
Phenanthrene	**12**	**9.4**	**17**	**16**	**25**	**25**	**35**	< 210	**38**	**25**	**44 ***
Pyrene	**0.45**	**0.31**	**0.47**	**0.49**	**1**	**0.76**	< 19	< 210	< 4.8	< 4.7	**1.5 J**
Inorganic Compounds											
Antimony	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053
Arsenic	< 0.05	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	**0.0096 J**	**0.011 J**	**0.0054 J**
Barium	**0.213**	**0.215**	**0.275**	**0.169**	**0.249**	**0.270**	**0.28**	**0.29**	**0.3**	**0.27**	**0.2**
Beryllium	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	**< 0.00020**	**0.00029 JB**
Cadmium	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020
Chromium	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0019 J**	**0.0041 J**	**0.0022 J**
Copper	**0.0175**	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	**0.0073 J**	**0.0062 JB**
Cyanide	**0.022**	**0.019**	**0.022**	**0.048**	**0.025**	**0.026**	**0.035**	**0.041**	**0.048**	**0.061**	**0.029**
Lead	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040
Mercury	< 0.0002	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091
Nickel	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	< 0.0023	**0.0034 J**	**0.0026 J**
Selenium	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064
Thallium	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025
Vanadium (fume or dust)	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0024 J**	**0.0040 J**	**0.0029 J**
Zinc	**0.052**	**0.0339**	**0.0379**	**0.0564**	**0.121**	**0.0291**	**0.077**	< 0.020	< 0.0087	**0.029**	**0.028**

Chemical Name	MW-602										
	7/28/2015	1/13/2015	7/15/2014	1/7/2014	7/9/2013	1/7/2013	7/23/212	1/17/2012	7/6/2011	1/18/2011
	Post-ISCO										
Field Parameters											
Conductivity	620	0.613	0.683	0.627	0.193	0.576	0.683	0.82	0.801	0.704
Dissolved Oxygen (YSI)	0.7	0.62	0.12	0.47	0.12	0.37	0.23	0.76	0.35	0.42
Oxidation Reduction Potent	-46.9	-33	-56.6	-30.5	-30.1	-7.1	-73.8	-49.3	-47.7	-81.7
pH	5.94	5.77	6.00	6.05	6.79	6.07	5.46	6.48	6.10	6.55
Temperature	29.1	17.4	22.36	18.36	24.76	18.15	24.51	20.97	23.69	17.93
Turbidity	34.1	15.5	9.45	4.16	5.42	2.04	2.59	8.17	181	7.34
Monitored Natural Attenuation Parameters											
Carbon Dioxide	--	--	--	--	--	--	--	--	--	--
Iron, as Ferrous (Fe+2)	--	--	--	--	--	--	--	--	--	--
Methane	--	--	--	--	--	--	--	--	--	--
Nitrate	--	--	--	--	--	--	--	--	--	--
Oxygen	--	--	--	--	--	--	--	--	--	--
Sulfate	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds											
Acetone	< 50	< 50	< 50	< 50	< 50	< 100	< 5.0	< 5.0	< 5.0	< 50
Benzene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**110**	**2.1 J**	< 0.25	**1,300**
Carbon Disulfide	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60	< 6.0
Ethylbenzene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**3.0 J**	**0.11 J**	< 0.11	**38 J**
Methylene Chloride	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 10
Toluene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**0.34 J**	< 0.33	< 0.33	< 3.3
Trichloroethylene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13	< 1.3
Xylenes, total	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**1.5 J**	**0.45 J**	< 0.20	**30 J**
Semivolatile Organic Compounds											
Acenaphthene	**1.6**	**1.6**	**1.9**	**3.5**	< 0.50	**4.3**	**11**	**6.7**	**4.3**	**0.5**
Acenaphthylene	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.22	< 0.50	**0.18 J**	**0.23**	**34**
Anthracene	**0.073**	**0.1**	**0.17**	**0.16**	< 0.050	< 0.22	< 0.50	< 0.10	**0.10 J**	**0.43**
Benz(a)anthracene	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.50	< 0.10	< 0.095	< 0.10
Benzo(a)pyrene	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.50	< 0.10	< 0.095	< 0.10
Benzo(b)fluoranthene	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.22	< 0.50	< 0.10	< 0.095	< 0.10
Benzo(g,h,i)perylene	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.22	< 0.50	< 0.10	< 0.095	< 0.10
Benzo(k)fluoranthene	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.50	< 0.10	< 0.095	< 0.10
Chrysene	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.23	< 0.046	< 0.045	< 0.045
Dibenzo(a,h)anthracene	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.22	< 0.50	< 0.10	< 0.095	< 0.10
Fluoranthene	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.22	< 0.50	**0.14 J**	< 0.095	**0.11 J**
Fluorene	**0.17**	0.22	**0.31**	**0.69**	< 0.10	**0.55**	**1.6**	**0.47**	**0.64**	**5.5**
Indeno(1,2,3-cd)pyrene	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.50	< 0.10	< 0.095	< 0.10
Naphthalene	< 0.5	<500	< 0.50	< 0.50	< 0.50	< 0.22	**65**	**0.34**	**0.15 J**	**330**
Phenanthrene	< 0.05	< 0.50	< 0.050	< 0.050	< 0.050	< 0.22	< 0.50	< 0.10	< 0.095	**1.2**
Pyrene	**0.064**	< 0.050	**0.054**	**0.08**	< 0.050	< 0.22	< 0.50	**0.22**	**0.11 J**	**0.12 J**
Inorganic Compounds											
Antimony	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.0053
Arsenic	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.0046
Barium	**0.51**	**0.491**	**0.553**	**0.583**	**0.137**	**0.38**	**0.4**	**0.57**	**0.61**	**0.36**
Beryllium	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.00020	< 0.00020	**0.00048 J**	< 0.00020
Cadmium	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Chromium	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.0012	**0.0031 J**	**0.0045 J**	< 0.0012
Copper	< 0.01	**0.0221**	< 0.0100	< 0.0100	**0.0117**	< 0.020	**0.0049 J**	< 0.0019	**0.02**	< 0.0019
Cyanide	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Lead	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.0040	< 0.0040	**0.0088 J**	< 0.0040
Mercury	< 0.0002	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.000091
Nickel	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	**0.0024 J**	< 0.0023	**0.0027 J**	< 0.0023
Selenium	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.0064
Thallium	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Vanadium (fume or dust)	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	**0.0044 J**	< 0.0024	**0.013**	< 0.0024
Zinc	**0.0407**	**0.165**	**0.0299**	**0.0432**	**0.583**	**0.4**	**0.17**	< 0.0087	**0.19**	< 0.0087

Chemical Name	MW-603					
	7/11/2013	1/9/2013	7/26/2012	1/17/2012	7/6/2011	1/18/2011
	Post-ISCO					
Field Parameters						
Conductivity	1.030	0.896	0.484	0.874	0.918	0.839
Dissolved Oxygen (YSI)	0.17	0.61	0.93	7.19	0.11	0.51
Oxidation Reduction Potent	-63.2	4.3	-34.8	-60.2	-57.5	-51.1
pH	5.89	6.19	6.02	6.56	6.01	5.9
Temperature	23.02	19.27	25.63	18.84	22.66	17.21
Turbidity	1.28	3.79	5.02	6.36	31.7	6.68
Monitored Natural Attenuation Parameters						
Carbon Dioxide	--	--	--	--	--	--
Iron, as Ferrous (Fe+2)	--	--	--	--	--	--
Methane	--	--	--	--	--	--
Nitrate	--	--	--	--	--	--
Oxygen	--	--	--	--	--	--
Sulfate	--	--	--	--	--	--
Volatile Organic Compounds						
Acetone	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0
Benzene	< 5.0	< 5.0	< 5.0	**2.0 J**	**2.3 J**	**3.5 J**
Carbon Disulfide	< 5.0	< 5.0	< 5.0	< 0.60	< 0.60	< 0.60
Ethylbenzene	**74**	**82**	**88**	**120**	**98**	**110**
Methylene Chloride	< 5.0	< 5.0	< 5.0	< 1.0	**2.9 J**	< 1.0
Toluene	< 5.0	< 5.0	< 5.0	**3.0 J**	**2.4 J**	**2.7 J**
Trichloroethylene	< 5.0	< 5.0	< 5.0	< 0.13	< 0.13	< 0.13
Xylenes, total	**39**	**40**	**51**	**69**	**45**	**63**
Semivolatile Organic Compounds						
Acenaphthene	**40**	**100**	< 190	**85**	**64**	**64**
Acenaphthylene	< 1.0	**31**	< 190	**4.1**	**1.9**	**1.3 J**
Anthracene	**1.6**	< 10	< 190	< 1.0	**3.3**	**3.8**
Benz(a)anthracene	< 0.050	< 10	< 190	< 1.0	**0.11 J**	< 0.99
Benzo(a)pyrene	< 0.050	< 10	< 190	< 1.0	< 0.095	< 0.99
Benzo(b)fluoranthene	< 0.10	< 10	< 190	< 1.0	< 0.095	< 0.99
Benzo(g,h,i)perylene	< 0.10	< 10	< 190	< 1.0	< 0.095	< 0.99
Benzo(k)fluoranthene	< 0.050	< 10	< 190	< 1.0	< 0.095	< 0.99
Chrysene	< 0.045	< 0.045	< 0.045	< 0.46	**0.078 J**	< 0.44
Dibenzo(a,h)anthracene	< 0.10	< 10	< 190	< 1.0	< 0.095	< 0.99
Fluoranthene	**0.78**	< 10	< 190	< 1.0	**1.1**	**1.0 J**
Fluorene	**9.3**	**29**	< 190	**20**	**21**	**22**
Indeno(1,2,3-cd)pyrene	< 0.050	< 10	< 190	< 1.0	< 0.095	< 0.96
Naphthalene	**490**	**1,000**	**1,100**	**1,400 D**	**840**	**930**
Phenanthrene	**8.4**	**22**	< 190	**13**	**16 J**	**18**
Pyrene	**0.71**	< 10	< 190	< 1.0	**1.4**	**1.3 J**
Inorganic Compounds						
Antimony	< 0.0200	< 0.020	< 0.020	< 0.0053	< 0.0053	< 0.0053
Arsenic	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	**0.0048 J**
Barium	**0.808**	**0.67**	**0.74**	**0.84**	**0.82**	**0.75**
Beryllium	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.00020
Cadmium	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020
Chromium	< 0.0100	< 0.010	< 0.010	**0.0016 J**	**0.0034 J**	**0.0022 J**
Copper	< 0.0100	< 0.020	< 0.020	< 0.0019	**0.0024 J**	< 0.0019
Cyanide	< 0.010	< 0.010	< 0.010	< 0.0050	**0.01**	< 0.0050
Lead	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040
Mercury	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091
Nickel	< 0.0200	< 0.040	< 0.040	< 0.0023	< 0.0023	< 0.0023
Selenium	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064
Thallium	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025
Vanadium (fume or dust)	< 0.0100	< 0.010	< 0.010	**0.0024 J**	**0.0035 J**	< 0.0024
Zinc	< 0.0200	**0.021**	< 0.020	< 0.0087	**0.02**	< 0.0087

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
** Monitoring well had NAPL detected

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

Prepared by/date: MBB 10/22/15
Checked by/date: TNK 10/30/15

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 July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-213																				
		Sample Date	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	During Extraction																			Pre-Extraction	
Volatile Organic Compounds																							
Acetone	4,000	µg/L	< 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	**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	< 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	**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	< 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	**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	< 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	**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	**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	**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	**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	< 0.5	< 0.050	**0.058**	< 0.050	< 220	< 210	< 0.096	< 0.095	< 10	< 1.9	< 1.9	< 9.7	< 1.9	< 9.7	< 0.050	--	< 0.05	< 0.05	0.05 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 220	< 210	< 0.096	< 0.095	< 10	< 1.9	< 1.9	< 9.7	< 1.9	< 9.7	< 0.050	--	< 0.05	< 0.05	0.05 U	10 U
Benzo(b)fluoranthene	0.2	µg/L	< 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	< 0.10	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 220	< 210	< 0.043	< 0.043	< 4.5	< 1.9	< 1.9	< 9.7	< 1.9	< 9.7	< 0.050	--	< 0.05	< 0.05	0.05 U	10 U
Dibenzo(a,h)anthracene	0.3	µg/L	< 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	**0.73**	**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**	**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	< 0.050	< 0.050	< 0.050	< 0.050	< 220	< 210	< 0.096	< 0.095	< 10	< 1.9	< 1.9	< 9.7	< 1.9	< 9.7	< 0.050	--	< 0.05	< 0.05	0.05 U	10 U
Naphthalene	20	µg/L	**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	**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	**0.75**	**1.3**	< 0.050	**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	< 0.02	< 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	--
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	< 0.020	< 0.010	< 0.010	< 0.0500	--	< 0.05	< 0.05	0.05 U	--
Barium	2	mg/L	**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	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00033 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	--	< 0.010	< 0.010	0.01 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	< 0.0050	--	< 0.005	< 0.005	0.005 U	--
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	< 0.0012	**0.0017 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	--	< 0.010	< 0.010	0.01 U	--
Cobalt	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	1.3	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	**0.0033 JB**	< 0.020	< 0.020	< 0.020	**0.016 J**	< 0.020	< 0.0100	--	< 0.010	< 0.010	0.01 U	--
Cyanide	0.2	mg/L	< 0.01	**0.014**	< 0.010	**0.016**	< 0.010	**0.015**	**0.021**	**0.017**	**0.034**	**0.010**	**0.011**	< 0.010	< 0.010	< 0.010	**0.0094 J**	< 0.010	--	< 0.002	< 0.002	0.01 U	--
Iron	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	< 0.010	< 0.0050	< 0.0050	< 0.0100	--	< 0.010	< 0.010	0.01 U	--
Magnesium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	0.0002 U	--
Nickel	0.1	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	**0.0024 J**	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.0200	--	< 0.02	< 0.02	0.02 U	--
Potassium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	< 0.020	< 0.010	< 0.010	< 0.0200	--	< 0.02	< 0.02	0.02 U	--
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	< 0.0010	< 1.00	--	< 1.00	< 1	0.001 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 J**	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	--	< 0.010	< 0.010	0.01 U	--
Zinc	2	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	**0.011 J**	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	**0.012 J**	< 0.020	< 0.0200	--	< 0.02	< 0.02	0.02 U	--

Notes:
-- - Not analyzed
* - Not a HSRA regulated compound
** - Resampled in August 2007 for VOCs only
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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	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:
-- - Not analyzed
* - Not a HSRA regulated compound
** - Resampled in August 2007 for VOCs only
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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-306BR																		
		Sample Date	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	02/07 DUP
		Unit	During Extraction																		
Volatile Organic Compounds																					
Acetone	4,000	µg/L	< 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	**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	< 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	**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	< 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	< 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	< 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	< 5.0	< 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	**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	< 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	**0.074**	**0.062**	**0.14**	**0.16**	< 0.050	<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	< 0.050	< 0.050	< 0.050	< 0.050	<0.20	< 3.8	< 0.10	< 0.13	< 0.10	< 1.9	< 1.9	< 1.9	< 20	< 1.9	< 0.050	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	<0.20	< 3.8	< 0.10	< 0.13	< 0.10	< 1.9	< 1.9	< 1.9	< 20	< 1.9	< 0.050	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 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	< 0.10	< 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	< 0.050	< 0.050	< 0.050	< 0.050	<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	< 0.050	< 0.050	< 0.050	< 0.050	<0.20	< 3.8	< 0.056	< 0.057	< 0.046	< 1.9	< 1.9	< 1.9	< 20	< 1.9	< 0.050	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	<0.20	< 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	< 0.10	< 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	**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	< 0.050	< 0.050	< 0.050	< 0.050	<0.20	< 3.8	< 0.10	< 0.13	< 0.10	< 1.9	< 1.9	< 1.9	< 20	< 1.9	< 0.050	< 0.05	< 0.05	< 0.05
Naphthalene	20	µg/L	**30**	< 0.5	**210**	**320**	< 0.50	**0.21**	**86**	**110**	**190**	**390**	**2,400**	**340**	**400**	**300**	**400**	< 10	**760**	**750 J**	**1,100**
Phenanthrene	10	µg/L	**0.18**	< 0.05	**0.49**	**1.1**	< 0.050	<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	**0.052**	< 0.05	**0.057**	**0.58**	< 0.050	<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	< 0.02	< 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
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	< 0.020	< 0.010	< 0.010	< 0.0500	< 0.05	< 0.05	< 0.05
Barium	2	mg/L	**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	< 0.01	< 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	< 0.0100	< 0.010	< 0.010	< 0.010
Cadmium	0.005	mg/L	< 0.005	< 0.0050	< 0.0050	< 0.0050	**0.0257**	< 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
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	**0.0015 J**	< 0.0012	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	**0.0021 J**	**0.0027 JB**	< 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	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	**0.011**	**0.016**	< 0.0050	**0.011**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
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	< 0.010	< 0.0050	< 0.0050	< 0.0100	< 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	< 0.000091	< 0.000091	< 0.000091	< 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	< 0.0200	< 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
Selenium	0.05	mg/L	< 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	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02	< 0.02
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	< 0.0010	< 1.00	< 1.00	< 1	< 1
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	< 0.010	< 0.0100	< 0.010	< 0.010	< 0.010
Zinc	2	mg/L	< 0.02	< 0.02	< 0.0200	< 0.0200	**0.0217**	< 0.020	< 0.020	< 0.0087	< 0.0087	< 0.0087	< 0.020	<0.020	**0.02**	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	< 0.02

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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-306BR (Continued)																				
		Sample Date	7/11/2006	1/13/2006	1/06 DUP	7/22/2005	7/05 DUP	1/20/2005	1/05 DUP	7/15/2004	7/04 DUP	1/22/2004	1/04 DUP	7/18/2003	1/17/2003	1/03 DUP	7/12/2002	4/28/2002	4/26/2002	1/22/2002	7/18/2001	7/01 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**	**8.8 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 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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-306TZ																						
		Sample Date	7/30/2015	7/30 DUP	1/13/2015	1/15 DUP	7/14/2014	7/14 DUP	1/27/2014	1/14 DUP	7/9/2013	1/10/2013	1/13 DUP	7/25/2012	7/12 DUP	1/17/2012	01/12 DUP	7/11 DUP	7/6/2011	01/11 DUP	1/18/2011	7/20/2010	1/12/2010	01/10 DUP
		Unit	During Extraction																						
Volatile Organic Compounds																									
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 50	<50	< 50	< 100	< 100	< 100	< 100	< 50	< 5.0	< 25	< 50	< 5.0	< 5.0	< 100 U	< 5000	< 5000
Benzene	5	µg/L	< 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**	**710**	**630**	**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	< 6.0	**0.89 J**	< 3.0	< 6.0	< 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	**2.3 J**	**1.8 J**	**2.0 J**	**2.6 J**	**2.9 J**	**2.3 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	< 10	< 1.0	< 5.0	< 10	< 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	< 3.3	**0.77 J**	< 1.7	< 3.3	**0.67 J**	**0.63 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	< 1.3	< 0.13	< 0.65	< 1.3	< 0.13	< 0.13	< 5.0 U	<250	<250
Xylenes, total	2,000	µg/L	< 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**	**22**	**17**	**19**	<250	<250
Semivolatile Organic Compounds																									
Acenaphthene	2,000	µg/L	**8.9**	< 50	**18**	**21**	**16**	**19**	**18**	**19**	**17**	**12**	**13**	**6.3**	**7.6**	**13**	**15**	**21**	**19**	**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	**0.21**	<0.19	< 3.8	< 3.8	< 0.099	< 0.096	< 0.95	< 1.0	< 0.96	< 0.96	<0.19	<0.19	**0.34**
Anthracene	10	µg/L	**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**	< 0.95	< 1.0	< 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	< 0.050	< 0.050	< 0.050	< 0.050	<0.050	<0.19	<0.19	< 3.8	< 3.8	< 0.099	< 0.096	< 0.95	< 1.0	< 0.96	< 0.96	< 0.19	< 0.19	<0.20
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	<0.050	<0.19	<0.19	< 3.8	< 3.8	< 0.099	< 0.096	< 0.95	< 1.0	< 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	< 0.10	< 0.10	< 0.10	< 0.10	<0.10	**0.19**	<0.19	< 3.8	< 3.8	< 0.099	< 0.096	< 0.95	< 1.0	< 0.96	< 0.96	< 0.19	< 0.19	<0.20
Benzo(g,h,i)perylene	10	µg/L	< 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	< 0.95	< 1.0	< 0.96	< 0.96	< 0.19	< 0.19	<0.20
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	<0.050	<0.19	<0.19	< 3.8	< 3.8	< 0.099	< 0.096	< 0.95	< 1.0	< 0.96	< 0.96	< 0.19	< 0.19	<0.20
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	<0.050	<0.19	<0.19	< 3.8	< 3.8	< 0.045	< 0.043	< 0.43	< 0.46	< 0.43	< 0.43	< 0.19	< 0.19	<0.20
Dibenzo(a,h)anthracene	0.3	µg/L	< 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	< 0.95	< 1.0	< 0.96	< 0.96	< 0.19	< 0.19	<0.20
Fluoranthene	1,000	µg/L	< 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**	< 0.95	< 1.0	< 0.96	< 0.96	**0.16 J**	**0.21**	**0.25**
Fluorene	1,000	µg/L	**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**	**3.4**	**3.0**	**3.5**	**3.2**	**2.0**	**4.3**	**3.4**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	<0.19	<0.19	< 3.8	< 3.8	< 0.099	< 0.096	< 0.95	< 1.0	< 0.96	< 0.96	< 0.19 U	<0.20	< 0.19
Naphthalene	20	µg/L	**200**	**210**	**240**	**300**	**310**	**390**	**290**	**340**	**340**	**420**	**270**	**200**	**240**	**550 D**	**770**	**380**	**330**	**520**	**510**	**340**	**650**	**700**
Phenanthrene	10	µg/L	**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**	**2.3**	**2.2**	**2.5**	**2.6**	**2.0**	**3.2**	**3.1**
Pyrene	1,000	µg/L	**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**	< 0.95	< 1.0	< 0.96	< 0.96	**0.16 J**	< 0.19	<0.20
Inorganic Compounds																									
Antimony	0.01	mg/L	< 0.02	< 0.02	< 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
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 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
Barium	2	mg/L	**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**	**0.76**	**0.74**	**0.65**	**0.57**	**0.73**	**0.84**	**0.77**
Beryllium	0.004	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 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	< 0.0050	< 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
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 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	**0.0142**	< 0.01	< 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	**0.0042 J**	< 0.020	< 0.020
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	**0.0083 J**	**0.014**	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 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
Mercury	0.002	mg/L	< 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	< 0.0200	< 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	< 0.0023	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040
Selenium	0.05	mg/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 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	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 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	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 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 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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-306TZ (Continued)																					
		Sample Date	07/09 DUP	7/21/2009	1/19/2009	07/08 DUP	7/22/2008	1/9/2008	7/10/2007	07/07 DUP	2/15/2007	7/11/2006	2/8/2006	1/12/2006	01/06 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	< 2000	< 5000	< 5000	< 5000	< 1000	< 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	**3900**	**4200**	**3500**	**3500**	**3,500**	**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	< 100	< 250	64 J	< 250	< 50	< 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	< 100	< 250	< 250	< 250	**9.0 J**	**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	< 100	< 250	21 J	< 250	< 50	< 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	< 100	< 250	< 250	< 250	< 50	< 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	< 100	< 250	< 250	< 250	< 50	< 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	< 100	< 250	61 J	**55**	**84**	**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	**43**	**41**	**14 J***	**25**	**19**	**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	**0.29**	< 0.94	< 20 *	< 3.8	< 3.9	< 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	**0.71**	< 0.94	< 20 *	**0.56 J**	**0.49 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	< 0.19	< 0.94	< 20	< 3.8	< 3.9	< 0.050	< 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	< 0.19	< 0.94	< 20	< 3.8	< 3.9	< 0.050	< 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	< 0.19	< 0.94	< 20	< 3.8	< 3.9	< 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	< 0.19	< 0.94	< 20	< 3.8	< 3.9	< 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	< 0.19	< 0.94	< 20 *	< 3.8	< 3.9	< 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	< 0.19	< 0.94	< 20	< 3.8	< 3.9	< 0.050	< 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	< 0.19	< 0.94	< 20	< 3.8	< 3.9	< 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	**0.23**	< 0.94	< 20 *	< 3.8	< 3.9	< 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	**5.2**	4.9	< 20 *	**3.3 J**	**2.3 J**	< 10	< 10	< 10	< 10	10 U	--	6.7 U	4.0 U	10 U	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	< 0.19	< 0.94	< 20	< 3.8	< 3.9	< 0.050	< 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	**1100**	**830**	**340**	**650**	**560**	**680**	**780**	**860**	**780**	**850**	--	**710**	**670**	**910**	**820**	**660**	**490**	**0.26 D**	**210 D**	**140**	**330 D**	**180**
Phenanthrene	10	µg/L	**3.8**	**3.9**	< 20 *	**3.1 J**	**2.4 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	**0.22**	< 0.94	< 20	< 3.8	< 3.9	<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	< 0.020	< 0.020	< 0.0200	< 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	< 0.010	< 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	0.010 U	0.01 U	0.010 U	0.01 U	0.01 U
Barium	2	mg/L	**0.71**	**0.67**	**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	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010	< 0.010	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	< 0.0050	< 0.0050	< 0.0050	< 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	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	< 0.010	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	< 0.020	< 0.020	< 0.0100	< 0.010	< 0.010	< 0.010	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	**0.0062 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	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	< 0.0050	< 0.0050	< 0.0100	< 0.010	< 0.010	< 0.010	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	< 0.040	< 0.040	< 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	0.04 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	--	< 0.010	< 0.010	< 0.0200	< 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	< 0.0010	< 0.0010	< 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	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010	< 0.010	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	< 0.020	< 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	0.02 U	0.020 U	0.02 U	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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction	Location ID	MW-307BR																						
		Sample Date	7/31/2015	1/15/2015	1/15 DUP	7/16/2014	1/10/2014	1/14 DUP	8/13/2013	8/13 DUP	1/9/2013	1/13 DUP	7/24/2012	07/12 DUP	1/23/2012	01/12 DUP	07/11 DUP	7/7/2011	01/11 DUP	1/13/2011	7/20/2010	07/10 DUP	1/7/2010	01/10 DUP
		Unit	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**	**51 J**	**52 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**	**280**	**240**	**140**	**150**	**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	< 4.8	**6.2 J**	< 0.96	**2.4**	< 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	**9.4 J**	**8.5 J**	**6.1**	**8.1**	< 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	< 0.96	**2.1**	< 19	< 19	< 94	< 94
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 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	**0.75 J**	**1.6 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	**5.5**	**9.6**	< 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**	**80**	**68**	**36**	**44**	**32**	**32**	< 94	< 94
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 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**	**8,700 D**	**6,400**	**5,800**	**6,300**	**5,900**	**5900**	**8000**	**5200**	**6800**
Phenanthrene	10	µg/L	**9.7**	**46**	**44**	**55**	**57**	**53**	**37**	**32**	< 190	< 190	< 190	< 190	**57**	**52**	**56**	< 48	**40**	**52**	**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	< 11	**5.5 J**	< 4.8	**8.1**	**14**	< 19	< 19	< 94	< 94
Inorganic Compounds																									
Antimony	0.01	mg/L	< 0.02	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.020	< 0.020	< 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	< 0.0500	< 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
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**	**0.90**	**0.88**	**0.96**	**0.96**	**0.85**	**0.84**	**0.85**	**0.88**
Beryllium	0.004	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.0040	< 0.0040	**0.00029 J**	**0.00029 J**	< 0.00020	**0.00020 J**	**0.00087 J**	**0.00098 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040
Cadmium	0.005	mg/L	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0012	< 0.0012	< 0.0012	< 0.0012	**0.012**	**0.019**	< 0.010	< 0.010	< 0.010	< 0.010
Copper	1.3	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.020	< 0.020	**0.0052 J**	**0.0043 J**	**0.0086 J**	**0.0068 J**	**0.020**	**0.047**	< 0.020	< 0.020	< 0.020	< 0.020
Cyanide	0.2	mg/L	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	<0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050	**0.011**	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010
Lead	0.015	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	--	--	< 0.010	< 0.010	< 0.010	< 0.010	**0.0051 J**	< 0.0040	**0.0071 J**	**0.001 J**	< 0.0040	0.0048 J	**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	< 0.0200	< 0.0200	**0.0247**	< 0.0200	< 0.0200	< 0.0200	< 0.0200	**0.064**	**0.061**	< 0.040	< 0.040	**0.014 J**	**0.010 J**	**0.12**	**0.11**	**0.022 J**	**0.035 J**	**0.0066 J**	<0.040	<0.040	<0.040
Selenium	0.05	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 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	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.0024	**0.0024 J**	**0.0030 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**	**0.091**	**0.083**	**4.1**	**4.6**	<0.020	<0.020	<0.020	<0.020

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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-307BR (Continued)																						
		Sample Date	07/09 DUP	7/23/2009	1/16/2009	07/08 DUP	7/15/2008	1/8/2008	01/08 DUP	7/9/2007	07/07 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**	**9200**	**9800**	**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	**2000**	**1900**	< 500	**1600**	**1800**	**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**	**41**	**50**	**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	< 25	**3.4 J**	< 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**	**1000**	**1100**	**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	**20**	**17**	**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	**6.6**	**5.5**	< 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	< 4.0	< 3.9	**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	< 4.0	< 3.9	< 0.050	< 0.050	< 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	< 4.0	< 3.9	< 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	< 4.0	< 3.9	< 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	< 4.0	< 3.9	< 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	< 4.0	< 3.9	**0.080**	< 0.050	**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	< 4.0	< 3.9	< 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	**2.5 J**	**2.6 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	**33**	**32**	**38**	**38**	**33**	**37**	**36**	10 U	**37**	--	1.0 U	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	< 4.0	< 3.9	< 0.05	< 0.050	**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	**590**	**420**	**2600 B**	**3400**	**3700**	**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**	**33**	**31**	**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	3.4 J	3.3 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	< 0.020	< 0.020	< 0.0200	< 0.0200	< 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	< 0.010	< 0.010	< 0.0500	< 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	0.01 U	--	--	0.01 U	0.01 U	0.01 U
Barium	2	mg/L	**0.89**	**0.88**	**0.86**	**0.82**	**0.8**	**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**	< 0.0100	< 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	0.004 U	--	--	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	< 0.0050	< 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	0.005 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	< 0.010	< 0.010	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010	**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	< 0.020	< 0.020	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010	**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	< 0.010	< 0.010	< 0.010	< 0.010	< 0.002	< 0.010	< 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	**0.024**	**0.22**	**0.0069**	< 0.0050	< 0.0050	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010	**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	**0.16**	**1.9**	**0.025 J**	**0.0056 J**	**0.0055 J**	< 0.0200	< 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	**0.0067 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	< 0.010	**0.0039 J**	< 0.0200	< 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 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	< 0.0010	< 0.0010	< 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	< 0.010	< 0.010	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010	**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	**1.4**	**0.75**	**0.82**	**0.043**	**0.041**	**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 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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	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	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	**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
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	< 0.050	< 0.10	< 0.11	< 0.11	< 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	0.2 U	10 U	10 U	10 U	--	17 U	**0.52 J**
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.050	< 0.10	< 0.11	< 0.11	< 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	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	< 0.050	< 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
Chrysene	0.2	µg/L	< 0.05	< 0.050	< 0.047	< 0.050	< 0.049	< 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	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	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
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	< 0.050	< 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	--	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	< 0.0200	< 0.020	< 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	**0.013 B**	--	0.01 U	--	--
Arsenic	0.05	mg/L	< 0.05	< 0.0500	< 0.020	< 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	**0.0055 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	< 0.0100	< 0.0040	< 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	**0.0015 B**	--	0.004 U	--	--
Cadmium	0.005	mg/L	< 0.005	< 0.0050	< 0.0050	< 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	--	--
Calcium metal	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**30.9**	**63.4**	**79**	**88**	**72**	**56**	**180**	--	**190**	--	--
Chromium	0.1	mg/L	< 0.01	< 0.0100	< 0.010	< 0.0012	< 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 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	< 0.0100	< 0.020	< 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	**0.038**	--	0.0043 U	--	--
Cyanide	0.2	mg/L	< 0.01	< 0.010	< 0.010	< 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	0.010 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	< 0.0100	< 0.010	< 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	**0.0034 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	< 0.0200	< 0.040	< 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	0.04 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	< 0.0200	< 0.020	**0.0088 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	--	0.01 U	--	--
Sodium	*	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**23.2**	**61.4**	**76**	**85**	**53**	**56**	**100**	--	**95**	--	--
Thallium	0.002	mg/L	< 0.02	< 0.0200	< 0.0010	< 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	--	0.002 U	--	--
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.0100	< 0.010	< 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	**0.037**	--	0.0059 U	--	--
Zinc	2	mg/L	< 0.02	< 0.0200	< 0.020	< 0.0087	< 0.0087	< 0.020	< 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**	**0.065**	--	**0.038**	--	--

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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction	Location ID	MW-308BR																					
		Sample Date	7/31/2015	1/29/2015	1/15 DUP	7/16/2014	7/14 DUP	1/10/2014	1/14 DUP	7/11/2013	1/9/2013	1/13 DUP	7/25/2012	7/12 DUP	1/20/2012	01/12 DUP	7/7/2011	7/11 DUP	1/11 DUP	1/13/2011	7/20 DUP	7/20/2010	1/7/2010	1/10 DUP
		Unit	During Extraction																					
Volatile Organic Compounds																								
Acetone	4,000	µg/L	< 50	< 2,500	< 2,500	< 2,500	< 2,500	**100**	**86**	< 50	< 5,000	<5,000	< 5,000	< 10,000	< 250	< 250	< 250	< 250	< 500	< 250	< 5000	< 5000	< 5000	< 5000
Benzene	5	µg/L	**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**	**7,000**	**5,500**	**5,200**	**5,400**	**3,800**	**4,100**
Carbon Disulfide	4,000	µg/L	< 5.0	< 250	< 250	< 250	< 250	< 5.0	<5.0	< 5.0	< 250	<250	< 250	< 500	< 30	< 30	< 30	< 30	< 60	< 30	< 250	< 250	< 250	< 250
Ethylbenzene	700	µg/L	**350**	**810**	**720**	**570**	**570**	**630**	**620**	**650**	**550**	**490**	**700**	**700**	**660**	**690**	**710**	**660**	**1,100**	**1,000**	**1,100**	**1,200**	**680**	**770**
Methylene Chloride	5	µg/L	< 5.0	< 250	< 250	< 250	< 250	< 5.0	<5.0	< 5.0	< 250	<250	< 250	< 500	< 50	< 50	< 50	< 50	< 100	< 50	< 250	< 250	< 250	< 250
Toluene	1,000	µg/L	**180**	**2,100**	**1,900**	**940**	**940**	**810**	**810**	**1,100**	**530**	**460**	**760**	**750**	**810**	**830**	**740**	**720**	**950**	**800**	**870**	**870**	**640**	**690**
Trichloroethylene	5	µg/L	< 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	< 13	< 6.5	< 250	< 250	< 250	< 250
Xylenes, total	2,000	µg/L	**440**	**880**	**740**	**590**	**590**	**680**	**660**	**840**	**700**	**620**	**710**	**700**	**710**	**710**	**600**	**550**	**920**	**950**	**820**	**870**	**670**	**740**
Semivolatile Organic Compounds																								
Acenaphthene	2,000	µg/L	**43**	**46**	**46**	**170**	**180**	**140**	**160**	**90**	**240**	**270**	**190**	**190**	**180**	**140**	**190**	**150**	**91**	**41**	**88**	**84**	**130**	**360**
Acenaphthylene	10	µg/L	**43**	**66**	**63**	< 100	**69**	**84**	**72**	**82**	**250**	<200	< 190	< 190	**79**	**63**	**150**	**130**	**69**	**21**	**36**	**37**	**340**	**700**
Anthracene	10	µg/L	**8.1**	**7.0**	**7.5**	**36**	**24**	**35**	**21**	**26**	< 190	<200	< 190	< 190	**32**	**31**	**49**	**37**	**28**	**17 J**	< 19	**12**	**140**	**440**
Benz(a)anthracene	0.1	µg/L	**5.2**	**9.6**	**9.9**	**28**	**18**	**21**	**10**	**17**	< 190	<200	< 190	< 190	**22**	**27**	**58**	**30**	**25**	**12 J**	< 19	**8.8**	**130**	**670**
Benzo(a)pyrene	0.2	µg/L	< 5.0	**11**	**11**	**22**	**15**	**17**	**7.1**	**14**	< 190	<200	< 190	< 190	**19**	**19**	**52**	**24**	**24**	< 10	< 19	**7.1**	**120**	**620**
Benzo(b)fluoranthene	0.2	µg/L	**6.2**	**10**	**10**	**22**	**14**	**12**	**5.3**	**13**	< 190	<200	< 190	< 190	**23**	**25**	**22**	< 2.2	**12 J**	< 10	< 19	**3.0**	<95	**280**
Benzo(g,h,i)perylene	10	µg/L	**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**	< 9.7	< 10	< 19	**2.6**	<95	**250**
Benzo(k)fluoranthene	10	µg/L	**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**	**13 J**	< 10	< 19	**4.7**	< 95	**330**
Chrysene	0.2	µg/L	**8.4**	**7.8**	**8.3**	**26**	**17**	**20**	**7.6**	**15**	< 190	<200	< 190	< 190	**20**	**22**	**46**	**24**	**23**	**12 J**	< 19	**7.9**	**130**	**550**
Dibenzo(a,h)anthracene	0.3	µg/L	**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**	< 9.7	< 10	< 19	< 1.9	<95	<98
Fluoranthene	1,000	µg/L	**10**	**12**	**12**	**58**	**35**	**44**	**23**	**38**	**270**	**290**	< 190	< 190	**49**	**49**	**82**	**53**	**43**	**22**	< 19	**16**	**220**	**980**
Fluorene	1,000	µg/L	**16**	**22**	**21**	**74**	**64**	**64**	**56**	**60**	**260**	**210**	< 190	< 190	**83**	**62**	**180**	**140**	**66**	**42**	**28**	**31**	**220**	**450**
Indeno(1,2,3-cd)pyrene	0.4	µg/L	**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**	< 9.7	< 10	< 19	**2.6**	<95	**270**
Naphthalene	20	µg/L	**1800**	**3,400**	**3,200**	**5,600**	**6,100**	**5,200**	**5,100**	**3,900**	**5,200**	**4,400**	**4,400**	**4,200**	**4,400**	**4,000**	**4,600**	**4,000**	**2,900**	**1,100**	**3,700**	**2,500**	**2,400**	**4,400 B**
Phenanthrene	10	µg/L	**30**	**28**	**29**	**180**	**120**	**160**	**110**	**140**	**760**	**670**	< 190	< 190	**160**	**150**	**300**	**220**	**150**	**100**	**44**	**66**	**1,800**	**370**
Pyrene	1,000	µg/L	**15**	**17**	**19**	**71**	**43**	**57**	**29**	**44**	**400**	**430**	< 190	< 190	**62**	**60**	**150**	**85**	**69**	**29**	< 19	**27**	**1,300**	**320**
Inorganic Compounds																								
Antimony	0.01	mg/L	< 0.02	< 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
Arsenic	0.05	mg/L	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0046	**0.0053 J**	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.020
Barium	2	mg/L	**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**	**0.52**	**0.49**	**0.51**	**0.53**	**0.59**	**0.58**
Beryllium	0.004	mg/L	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.0040	< 0.0040	**0.00020 J**	< 0.00020	**0.00022 J**	**0.00022 J**	**0.00026 J**	**0.00023 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040
Cadmium	0.005	mg/L	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0012	**0.0013 J**	**0.0014 J**	**0.0014 J**	< 0.0012	**0.0023 J**	< 0.010	< 0.010	**0.027**	**0.022**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.020	< 0.020	**0.020**	**0.011 J**	**0.0026 J**	**0.0023 J**	< 0.0019	**0.0034 J**	< 0.010	< 0.010	< 0.020	< 0.020
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.001	< 0.010	< 0.010	<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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 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	< 0.00020	< 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	**0.0203**	< 0.0200	< 0.0200	< 0.0200	**0.0390**	**0.92**	**0.93**	< 0.040	< 0.040	**0.53**	**0.97**	**0.0091 J**	**0.0086 J**	**0.035 J**	**0.030 J**	< 0.040	< 0.040	**0.18**	**0.18**
Selenium	0.05	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 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	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 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	**0.0492**	**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**	**0.051**	**0.049**	**0.048**	**0.044**	**2.5**	**2.9**

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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID / Sample Date / Unit	MW-308BR (Continued)																									
		Sample Date	7/09 DUP	7/23/2009	1/16/2009	7/08 DUP	7/17/2008	1/8/2008	1/08 DUP	7/9/2007	07/07 DUP	2/13/2007	2/07 DUP	10/3/2006	10/06 DUP	1/19/2006	12/7/2005	7/16/2004	1/24/2004	7/18/2003	7/03 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	< 10,000	< 5,000	< 5,000	< 10,000	< 500	< 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	**6,600**	**7,000**	**8,700**	**6,300**	**6,500**	**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	< 500	< 250	< 250	< 500	< 25	< 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	**1,200**	**1,300**	**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	< 500	< 250	< 500	< 500	< 25	< 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	**700**	**750**	**1,800**	**730**	**580**	**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	< 500	< 250	< 250	< 500	< 25	< 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	**730**	**740**	**1900**	**1300**	**1000**	**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	**310**	**840**	**260**	**310**	**260**	**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	**240**	**760**	**940**	**330**	**290**	**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	**160**	**620**	**350**	**190**	**170**	< 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	**280**	**1,000**	**380**	**250**	**200**	**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	**230**	**870**	**390**	**200**	**170**	**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	**180**	**660**	**310**	**170**	**160**	**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	**90**	**340**	**130**	**85**	**64**	< 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	**140**	**480**	**270**	**52**	**46**	< 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	**220**	**890**	**330**	**220**	**180**	**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	**29**	**120**	**31 J**	**25**	**18**	< 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	**390**	**1,400**	**600**	**490**	**390**	< 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	**250**	**920**	**730**	**580**	**400**	**31**	**34**	**27**	**25**	**15**	**19**	10 U	10 U	10 U	--	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	**86**	**320**	**140**	**90**	**61**	**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	**5,600**	**9,200**	**8,900 BD**	**8,800**	**8,400**	**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	**820**	**2,600**	**1,600**	**900**	**750**	**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	**610**	**2,200**	**870**	**590**	**480**	< 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	< 0.020	< 0.020	< 0.0200	< 0.0200	< 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	< 0.010	< 0.010	< 0.0500	< 0.0500	< 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	**0.54**	**0.55**	**0.6**	**0.82**	**0.62**	**0.540**	**0.501**	**0.556**	**0.557**	**0.603**	**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**	**0.0046**	**0.0013 J**	< 0.0100	< 0.0100	< 0.010	< 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	0.004 U	--	--	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium	0.005	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 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	**0.043**	**0.017**	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010	< 0.010	**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	**0.11**	**0.061**	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010	< 0.010	**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	< 0.010	**0.012**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	**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**	**3.5**	**11**
Lead	0.015	mg/L	< 0.010	< 0.010	**0.014**	**0.043**	**0.036**	< 0.0100	< 0.0100	< 0.010	< 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	0.005 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**	**0.090**	**0.077**	< 0.0200	< 0.0200	< 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	< 0.010	< 0.010	< 0.0200	< 0.0200	< 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	**0.00074**	< 0.0010	< 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	**0.077**	**0.022**	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010	< 0.010	**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	**0.088**	**0.099**	**0.62**	**1.4**	**1.1**	**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 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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-309BR																		
		Sample Date	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	During Extraction																		
Volatile Organic Compounds																					
Acetone	4,000	µg/L	< 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	< 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	< 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	< 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	< 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	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	< 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	< 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	< 0.50	< 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
Acenaphthylene	10	µg/L	< 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	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.11	< 0.11	< 0.096	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.050	--	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.11	< 0.11	< 0.096	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.050	--	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 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	< 0.10	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.048	< 0.049	< 0.043	< 0.046	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.050	--	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.19	< 0.11	< 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	< 0.10	< 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	< 0.10	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.11	< 0.11	< 0.096	< 0.10	< 0.19	< 0.19	< 0.19	< 0.20	< 0.19	< 0.050	--	< 0.05	< 0.05
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.19	< 0.11	< 0.11	< 0.096	**0.65**	**0.13 J**	< 0.19	< 0.19	**0.067 J**	**0.052 J**	< 10	--	< 10	< 10
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.050	**0.055**	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 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	< 0.02	< 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
Arsenic	0.05	mg/L	< 0.05	< 0.05	< 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
Barium	2	mg/L	**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	< 0.01	< 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
Cadmium	0.005	mg/L	**0.0072**	< 0.005	**0.0086**	< 0.0050	**0.0113**	**0.0056**	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.0012	< 0.0012	< 0.0012	**0.0012 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	--	< 0.010	< 0.010
Copper	1.3	mg/L	**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**	< 0.0100	--	< 0.010	< 0.010
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	--	< 0.010	< 0.010
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	< 0.0100	--	< 0.010	< 0.010
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	**0.000092**	< 0.00020	--	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.0200	--	< 0.02	< 0.02
Selenium	0.05	mg/L	< 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
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
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.0024	**0.0035 J**	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	**0.0049 J**	**0.0045 J**	< 0.0100	--	< 0.010	< 0.010
Zinc	2	mg/L	**0.0331**	< 0.02	< 0.0200	< 0.0200	< 0.0200	**0.021**	< 0.0087	< 0.0087	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	--	< 0.02	< 0.02

Notes:
-- - Not analyzed
* - Not a HSRA regulated compound
** - Resampled in August 2007 for VOCs only
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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction	Location ID	MW-309BR (Continued)												
		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**

Notes:
-- - Not analyzed
* - Not a HSRA regulated compound
** - Resampled in August 2007 for VOCs only
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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	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	< 0.050	< 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	**0.4 J**
Benzo(a)pyrene	0.2	µg/L	< 0.20	< 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	< 0.20	< 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	< 0.050	< 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	< 0.20	< 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	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.20	< 0.19	< 0.19	< 0.050	< 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	< 0.20	**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	< 0.020	< 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	0.02 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	**0.0039 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	< 0.0040	< 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	**0.0015 B**	0.004 U	**0.0013 B**
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	**0.00092 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	< 0.010	< 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	**0.034**	**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	< 0.020	< 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	**0.0027 B**	**0.082**	**0.0076 B**	**0.053**
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	0.01 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	< 0.0050	< 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	**0.015**	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	< 0.040	< 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	**0.035 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	< 0.010	< 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	**0.0046 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	< 0.0010	< 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 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	**0.0051 B**	**0.095**	**0.011**	**0.068**
Zinc	2	mg/L	< 0.020	< 0.020	< 0.020	< 0.0200	< 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 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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-310BR																	
		Sample Date	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	During Extraction																	
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	< 100	< 50	< 50	< 50
Benzene	5	µg/L	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 0.50	< 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	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.19	< 0.10	< 0.12	< 0.097	**0.20**	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.19	< 0.10	< 0.12	< 0.097	**0.35**	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 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	< 0.10	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.22	< 0.19	< 0.047	< 0.056	< 0.043	**0.39**	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.10	< 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	< 0.10	< 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	< 0.10	< 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	< 0.050	< 0.050	< 0.050	< 0.22	< 0.19	< 0.10	< 0.12	< 0.097	**0.39**	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05
Naphthalene	20	µg/L	< 0.5	**7.6**	< 0.50	< 0.50	< 0.50	< 0.22	**0.25**	< 0.10	< 0.12	< 0.097	< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.02	< 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
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	< 0.020	< 0.010	< 0.010	< 0.0500	< 0.05	< 0.05
Barium	2	mg/L	**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	< 0.01	< 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
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	< 0.0050	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	< 0.0012	< 0.0012	**0.0012 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	**0.0026 J**	< 0.0019	**0.0020 J**	< 0.020	< 0.020	< 0.020	**0.033**	**0.0068 J**	< 0.0100	< 0.010	< 0.010
Cyanide	0.2	mg/L	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	**0.016**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
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	< 0.010	< 0.0050	< 0.0050	< 0.0100	< 0.010	< 0.010
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	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	**0.0030 J**	**0.0045 J**	< 0.0023	< 0.040	< 0.040	< 0.040	**0.027 J**	**0.0043 J**	< 0.0200	< 0.02	< 0.02
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	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02
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	< 0.0010	< 1.00	< 1.00	< 1
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	< 0.010	< 0.0100	< 0.010	< 0.010
Zinc	2	mg/L	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0087	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	**0.010 J**	< 0.020	< 0.0200	< 0.02	< 0.02

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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction	Location ID	MW-310BR (Continued)												
		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:
-- - 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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	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	< 0.050	< 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	10 U	10 U	10 U
Benzo(a)pyrene	0.2	µg/L	< 0.19	< 0.19	< 0.19	< 0.050	**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	< 0.050	**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	0.2 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	**0.32**	< 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	0.2 U	**0.14 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	0.02 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	< 0.010	< 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
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	< 0.0040	< 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	0.0040 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	0.005 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	< 0.010	< 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 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	< 0.020	< 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	0.020 U	0.02 U
Cyanide	0.2	mg/L	< 0.010	< 0.010	< 0.010	< 0.010	**0.017**	< 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	0.010 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	< 0.0050	< 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	0.0050 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	< 0.040	< 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	0.04 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	< 0.010	< 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	0.010 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	< 0.0010	< 1.00	< 1.00	< 1	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.002 U	0.001 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	< 0.010	< 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	0.01 U	0.010 U	0.01 U
Zinc	2	mg/L	< 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	0.02 U	0.02 U	**0.02**	0.020 U	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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-313																	
		Sample Date	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	During Extraction																	
Volatile Organic Compounds																				
Acetone	4,000	µg/L	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 0.50	< 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	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.098	< 0.11	< 0.10	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.098	< 0.11	< 0.10	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 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	< 0.1	< 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	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.044	< 0.050	< 0.045	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 0.1	< 0.1	< 0.10	< 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	< 0.10	< 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	< 0.10	< 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	< 0.05	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.098	< 0.11	< 0.10	< 0.23	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.20	**2.3**	**0.89**	**0.52**	< 0.10	< 0.23	< 0.19	< 0.19	< 0.19	**0.055**	< 10	< 10	< 10
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.02	< 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
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	< 0.020	< 0.010	< 0.010	< 0.0500	< 0.05	< 0.05
Barium	2	mg/L	**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	< 0.01	< 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
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	< 0.0050	**0.00055 J**	< 0.0050	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	< 0.0012	**0.0027 J**	**0.0027 J**	< 0.010	< 0.010	**0.0013 J**	< 0.010	< 0.0100	< 0.010	< 0.010
Copper	1.3	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	**0.0038 J**	**0.0023 J**	< 0.020	< 0.020	**0.0056 J**	< 0.020	< 0.0100	< 0.010	< 0.010
Cyanide	0.2	mg/L	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	**0.014**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.002	< 0.002
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	**0.0047 J**	< 0.010	< 0.010	**0.0028 J**	< 0.0050	< 0.0100	< 0.010	< 0.010
Mercury	0.002	mg/L	< 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	< 0.0200	< 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
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	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02
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	< 0.0010	< 1.00	< 1.00	< 1
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0053 J**	**0.0048 J**	**0.0060 J**	**0.0030 J**	< 0.010	< 0.010	**0.0022 J**	< 0.010	< 0.0100	< 0.010	< 0.010
Zinc	2	mg/L	< 0.02	**0.0564**	< 0.0200	**0.0501**	< 0.0200	< 0.020	< 0.020	< 0.0087	< 0.0087	**0.036**	**0.035**	**0.027**	< 0.020	**0.034**	< 0.020	< 0.0200	< 0.02	**0.0672**

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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction	Location ID	MW-313 (Continued)											
		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:
-- - Not analyzed
* - Not a HSRA regulated compound
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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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction	Location ID	MW-315																														
		Sample Date	7/30/2015	7/30 DUP	1/13/2015	1/15 DUP	7/14/2014	7/14 DUP	1/9/2014	1/14 DUP	7/11/2013	1/8/2013	1/13 DUP	7/25/2012	7/12 DUP	1/18/2012	01/12 DUP	7/7/2011	1/11 DUP	1/19/2011	7/10 DUP	7/15/2010	1/6/2010	1/10 DUP	7/29/2009	1/15/2009	7/08 DUP	7/17/2008	1/10/2008	7/12/2007	07/07 DUP	2/15/2007
		Unit	During Extraction																														
Volatile Organic Compounds																																	
Acetone	4,000	µg/L	< 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	< 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	< 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	< 5.0	< 5.0	< 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	< 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	< 5.0	< 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	< 0.11	< 0.11	< 0.11	**1.6 J**	**1.6 J**	**0.15 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 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	< 0.33	< 0.33	< 0.33	**0.95 J**	**0.90 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 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	< 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	< 5.0	< 5.0	< 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	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.24 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5
Semivolatile Organic Compounds																																	
Acenaphthene	2,000	µg/L	**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	**1.1**	**0.99**	**1.2**	**1.1**	**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	< 1.9	**0.56**	**0.24**	< 0.21	< 0.11	**0.52**	< 0.11	< 0.098	< 0.097	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	**0.020 J**	< 0.19	< 0.19	< 10	< 10	< 10	< 10
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 1.9	<0.20	< 0.21	< 0.21	< 0.11	< 0.11	< 0.11	< 0.098	< 0.097	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	**0.043 J**	**0.033 J**	**0.04 J**	< 10	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	**0.16**	< 0.050	**0.22**	**6.0**	<0.20	< 0.21	< 0.21	**0.51**	< 0.11	< 0.11	< 0.098	**0.33**	< 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	< 0.050	< 0.050	< 0.050	< 0.050	**0.18**	< 0.050	**0.53**	**15**	<0.20	< 0.21	< 0.21	**0.76**	< 0.11	< 0.11	< 0.098	**0.77**	< 0.20	**0.35**	< 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**	< 0.10	< 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	< 0.098	**1.1**	< 0.20	**0.54**	< 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	< 0.10	< 0.10	< 0.10	< 0.10	**0.15**	< 0.10	**0.66**	**16**	<0.20	< 0.21	< 0.21	**1.2**	< 0.11	< 0.11	< 0.098	**0.88**	< 0.20	**0.37**	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	**0.055**	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	**0.15**	< 0.050	**0.35**	**8.7**	<0.20	< 0.21	< 0.21	**1.7**	< 0.11	< 0.11	< 0.098	**0.91**	< 0.20	**0.44**	< 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	< 0.050	< 0.050	< 0.050	< 0.050	**0.15**	< 0.050	**0.47**	**15**	<0.20	< 0.21	< 0.21	**0.84**	< 0.048	**0.066 J**	< 0.044	**0.69**	< 0.20	**0.39**	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 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	**0.16**	< 0.10	< 0.10	**3.8**	<0.20	< 0.21	< 0.21	< 0.11	< 0.11	< 0.11	< 0.098	< 0.097	< 0.20	**0.11 J**	< 0.19	< 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	< 0.10	< 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	< 0.098	**0.78**	< 0.20	**0.40**	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	< 10
Fluorene	1,000	µg/L	< 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	< 0.098	< 0.097	< 0.20	< 0.20	< 0.19	< 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	< 0.050	< 0.050	< 0.050	< 0.050	**0.16**	< 0.050	**0.51**	**15**	<0.20	< 0.21	< 0.21	**1.0**	< 0.11	< 0.11	< 0.098	**0.57**	< 0.20	**0.39**	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05	< 0.05
Naphthalene	20	µg/L	**1.2**	**2**	< 0.50	< 0.50	< 0.50	< 0.50	**0.61**	< 0.50	**2.9**	< 1.9	<0.20	< 0.21	< 0.21	**0.41**	**2.5**	**0.62**	**0.87**	**0.98**	< 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	< 0.050	< 0.050	<0.050	< 0.050	**0.094**	< 1.9	<0.20	< 0.21	< 0.21	< 0.11	< 0.11	< 0.11	< 0.098	**0.11 J**	< 0.20	< 0.20	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 10	< 10	< 10	< 10
Pyrene	1,000	µg/L	**0.08**	**0.081**	< 0.05	< 0.05	< 0.050	**0.051**	**0.091**	< 0.050	**0.41**	**9.0**	<0.20	< 0.21	< 0.21	**0.69**	< 0.11	< 0.11	< 0.098	**0.66**	< 0.20	**0.39**	< 0.19	< 0.19	< 0.19	**0.024 J**	**0.027 J**	**0.028 J**	< 10	< 10	< 10	< 10
Inorganic Compounds																																	
Antimony	0.01	mg/L	< 0.02	< 0.02	< 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	< 0.020	< 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	< 0.0500	< 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	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.010	< 0.0500	< 0.05	< 0.05	< 0.05
Barium	2	mg/L	**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**	**0.54**	**0.52**	**0.54**	**0.53**	**0.48**	**0.51**	**0.5**	**0.57**	**0.51**	**0.5**	**0.507**	**0.481**	**0.479**	**0.463**
Beryllium	0.004	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.00020	**0.00037 J**	**0.00036 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	< 0.0050	< 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	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.010	**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	< 0.0100	< 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	**0.0026 JB**	**0.0032 JB**	< 0.020	< 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	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Lead	0.015	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 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	< 0.010	< 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	< 0.00020	< 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	< 0.00020	< 0.00020	**0.000094 J**	< 0.00020	< 0.0002	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.02	< 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	< 0.0023	< 0.0023	< 0.040	< 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	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 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	< 0.010	< 0.0200	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 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	< 0.010	< 0.0100	< 0.010	< 0.010	< 0.010
Zinc	2	mg/L	**0.0259**	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	<0.020	**0.024**	< 0.020	< 0.0087	< 0.0087	**0.057**	**0.0091 J**	< 0.0087	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02	< 0.02

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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-315 (Continued)												
		Sample Date	7/13/2006	7/06 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 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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-318																						
		Sample Date	7/30/2015	1/14/2015	7/17/2014	1/27/2014	7/11/2013	7/13 DUP	1/9/2013	7/24/2012	2/6/2012	7/5/2011	07/11 DUP	2/23/2011	7/13/2010	1/7/2010	01/09 DUP	1/14/2009	7/16/2008	1/10/2008	01/08 DUP	7/12/2007	2/14/2007	02/07 DUP
			During Extraction																						
Volatile Organic Compounds																									
Acetone	4,000	µg/L	< 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	**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**	**7,300**	**5,900**	**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	< 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	< 5	< 5.0	< 5.0	**11**	**9.4**	< 25	< 250	**8.6 J**	**14 J**	**15 J**	**21 J**	**9.3 J**	**32**	**510**	**410**	**460**	**660**	**660**	**810**	**970**	**990**
Methylene Chloride	5	µg/L	< 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	< 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	< 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	**12**	**13**	**22**	< 5.0	**35**	**31**	< 25	< 250	**13 J**	**30 J**	**35 J**	**44 J**	**10 J**	**89**	**70 J**	**55 J**	**48 J**	**110**	**91**	**100**	**110**	**100**
Semivolatile Organic Compounds																									
Acenaphthene	2,000	µg/L	< 50	**37**	**31**	**2.8**	< 50	< 50	**11**	< 210	**28**	**30**	**35**	**42**	**7.2**	**28**	**25 J**	**26**	**28**	**56**	**46**	**54**	**40**	**37**
Acenaphthylene	10	µg/L	< 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	< 38	< 9.4	< 3.8	< 10	< 10	< 10	< 10	< 10
Anthracene	10	µg/L	**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**	< 38	< 9.4	**0.85 J**	< 10	< 10	< 10	< 10	< 10
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 2.0	< 210	< 9.9	< 0.10	< 0.11	< 0.11	< 2.0	< 0.19	< 38	< 9.4	< 3.8	< 0.050	< 0.050	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 2.0	< 210	< 9.9	< 0.10	< 0.11	< 0.11	< 2.0	< 0.19	< 38	< 9.4	< 3.8	< 0.050	< 0.050	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 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	< 38	< 9.4	< 3.8	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	10	µg/L	< 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	< 38	< 9.4	< 3.8	< 10	< 10	< 10	< 10	< 10
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 2.0	< 210	< 9.9	< 0.10	< 0.11	< 0.11	< 2.0	< 0.19	< 38	< 9.4	< 3.8	< 10	< 10	< 10	< 10	< 10
Chrysene	0.2	µg/L	< 0.05	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 2.0	< 210	< 4.5	< 0.046	<0.047	<0.049	< 2.0	< 0.19	< 38	< 9.4	< 3.8	< 0.050	< 0.050	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 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	< 38	< 9.4	< 3.8	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1
Fluoranthene	1,000	µg/L	**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**	< 38	< 9.4	< 3.8	< 10	< 10	< 10	< 10	< 10
Fluorene	1,000	µg/L	**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**	< 38	**3.3 J**	**0.46 J**	< 10	< 10	< 10	< 10	< 10
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.50	< 0.050	< 0.050	< 0.050	< 0.050	< 2.0	< 210	< 9.9	< 0.10	<0.11	<0.11	< 2.0	< 0.19	< 38	< 9.4	< 3.8	< 0.050	< 0.050	< 0.05	< 0.05	< 0.05
Naphthalene	20	µg/L	**540**	**920**	**730**	**7.3**	**820**	**820**	**160**	**880**	**550**	**770**	**870**	**1,000**	**110**	**780**	**720**	**680**	**720**	**1,400**	**1,100**	**1,100**	**820**	**790**
Phenanthrene	10	µg/L	**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**	< 38	**3.4 J**	**4.1**	< 10	< 10	< 10	< 10	< 10
Pyrene	1,000	µg/L	**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**	< 38	< 9.4	< 3.8	<10	<10	< 10	< 10	< 10
Inorganic Compounds																									
Antimony	0.01	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	**0.0063 J B**	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.0200	< 0.02	< 0.02	< 0.02
Arsenic	0.05	mg/L	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0500	< 0.0500	< 0.05	< 0.05	< 0.05
Barium	2	mg/L	**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**	**0.51**	**0.54**	**0.5**	**0.543**	**0.557**	**0.512**	**0.527**	**0.523**
Beryllium	0.004	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	**0.00031 J**	< 0.00020	< 0.00020	< 0.00020	**0.00046 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010
Cadmium	0.005	mg/L	< 0.005	< 0.0050	< 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	**0.00064 J**	< 0.0050	< 0.0050	**0.0064**	< 0.005	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0030 J B**	< 0.0012	< 0.0012	< 0.0012	**0.0055 J**	< 0.010	< 0.010	**0.0013 J**	< 0.010	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010
Copper	1.3	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.010	< 0.020	< 0.020	**0.0067 J**	< 0.020	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.010	< 0.010	**0.011**	< 0.010	< 0.010	< 0.010	< 0.0050	**0.021**	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Lead	0.015	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.0040	**0.0034 J**	< 0.0050	< 0.0050	**0.0025 J**	< 0.0050	< 0.0100	< 0.0100	< 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	< 0.000091	< 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	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	< 0.0023	< 0.0023	< 0.0023	< 0.0023	**0.0034 J**	< 0.040	< 0.040	< 0.040	< 0.040	< 0.0200	< 0.0200	< 0.02	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0200	< 0.0200	< 0.02	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	**0.00026 J**	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 1.00	< 1.00	< 1.00	< 1	< 1
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0040 J**	< 0.0024	< 0.0024	< 0.0024	**0.0039 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.010
Zinc	2	mg/L	**0.0636**	< 0.02	< 0.0200	< 0.0200	**0.0203**	< 0.0200	< 0.020	< 0.020	**0.022**	**0.016 J**	< 0.0087	**0.014 J**	**0.024**	<0.020	**0.046**	**0.076**	< 0.020	**0.118**	**0.211**	**0.0633**	< 0.02	< 0.02

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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-318 (Continued)																
		Sample Date	7/12/2006	07/06 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	01/02 DUP	7/17/2001	1/17/2001	01/01 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**	**4.6 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 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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-319																	
		Sample Date	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	During Extraction																	
Volatile Organic Compounds																				
Acetone	4,000	µg/L	< 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	< 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	< 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	< 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	< 1.0	< 1.0	**3.2 J B**	< 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	< 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	< 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	< 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	< 0.50	< 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	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.050	**0.075**	< 0.050	< 0.19	< 0.096	< 0.11	< 0.10	< 0.098	< 0.19	< 0.20	< 0.19	< 0.21	< 0.19	< 0.050	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.050	**0.25**	< 0.050	< 0.19	< 0.096	< 0.11	< 0.10	< 0.098	< 0.19	< 0.20	< 0.19	< 0.21	< 0.19	< 0.050	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 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	< 0.10	**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	< 0.050	**0.22**	< 0.050	< 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	< 0.050	**0.19**	< 0.050	< 0.19	< 0.043	< 0.048	**0.065 J**	< 0.044	< 0.19	< 0.20	< 0.19	< 0.21	< 0.19	< 0.050	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 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	< 0.10	**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	< 0.10	< 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	< 0.050	**0.29**	< 0.050	< 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	< 0.50	< 0.50	< 0.50	< 0.19	< 0.096	< 0.11	< 0.10	< 0.098	< 0.19	< 0.20	< 0.19	**0.033 J**	**0.05 J**	< 10	< 10	< 10
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 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	< 0.050	**0.056**	**0.085**	< 0.050	< 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	< 0.02	< 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
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
Barium	2	mg/L	**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	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.00020	< 0.00020	< 0.00020	**0.00020 J**	**0.00031 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010
Cadmium	0.005	mg/L	< 0.005	< 0.0050	< 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	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.0012	< 0.0012	< 0.0012	**0.0028 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010
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	**0.0038 J**	< 0.020	< 0.020	**0.0029 J**	< 0.020	< 0.0100	< 0.010	< 0.010
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	**0.027**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Lead	0.015	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.0040	**0.0043 J**	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	**0.0036 J**	< 0.0050	< 0.0100	< 0.010	< 0.010
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	< 0.00020	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 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	< 0.0200	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 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
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
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	< 0.0100	< 0.010	< 0.010
Zinc	2	mg/L	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.0087	**0.0094 J**	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02

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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-319 (Continued)												
		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 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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-320																	
		Sample Date	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	During Extraction																	
Volatile Organic Compounds																				
Acetone	4,000	µg/L	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 0.50	< 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	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.20	< 0.095	**0.12 J**	< 0.11	< 0.11	< 0.20	< 0.19	< 0.19	< 0.20	< 0.19	< 0.050	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.050	**0.053**	< 0.050	< 0.20	< 0.095	**0.18 J**	< 0.11	< 0.11	< 0.20	< 0.19	< 0.19	< 0.20	< 0.19	< 0.050	< 0.05	< 0.05
Benzo(b)fluoranthene	0.2	µg/L	< 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	< 0.10	**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	< 0.050	**0.066**	< 0.050	< 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	< 0.050	< 0.050	**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	< 0.050	< 0.05	< 0.05
Dibenzo(a,h)anthracene	0.3	µg/L	< 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	< 0.10	< 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	< 0.10	< 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	< 0.050	**0.090**	< 0.050	< 0.20	< 0.095	**0.15 J**	< 0.11	< 0.11	< 0.20	< 0.19	< 0.19	< 0.20	< 0.19	< 0.050	< 0.05	< 0.05
Naphthalene	20	µg/L	< 0.5	**13**	< 0.50	< 0.50	< 0.50	< 0.20	< 0.095	< 0.11	**0.11 J**	< 0.11	< 0.20	< 0.19	< 0.19	**0.052 J**	0.33	< 10	< 10	< 10
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	**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	< 0.02	< 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
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
Barium	2	mg/L	**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	< 0.01	< 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
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 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
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.0012	< 0.0012	< 0.0012	**0.0013 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010
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	< 0.0100	< 0.010	< 0.010
Cyanide	0.2	mg/L	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	**0.013**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
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	< 0.0100	< 0.010	< 0.010
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	< 0.00020	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	**0.0018 J**	**0.0018 J**	< 0.0200	< 0.02	< 0.02
Selenium	0.05	mg/L	< 0.02	< 0.02	< 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
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
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	< 0.0100	< 0.010	< 0.010
Zinc	2	mg/L	< 0.02	< 0.02	< 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	< 0.0200	< 0.02	< 0.02

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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-320 (continued)											
		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 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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-321																			
		Sample Date	7/29/2015	1/13/2015	7/14/2014	1/8/2014	7/10/2013	7/10 DUP	1/9/2013	7/25/2012	1/24/2012	7/6/2011	07/11 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	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**	< 0.050	**0.13**	< 0.050	**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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.095	< 0.11	< 1.0	< 0.11	< 19	<0.20	< 0.94	< 0.21	< 0.19	< 0.050	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.095	< 0.11	< 1.0	< 0.11	< 19	<0.20	< 0.94	< 0.21	< 0.19	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.043	< 0.048	< 0.45	**0.059 J**	< 19	<0.20	< 0.94	< 0.21	< 0.19	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.095	< 0.11	< 1.0	< 0.11	< 19	< 0.20	< 0.94	< 0.21	< 0.19	< 0.050	< 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**	**680**	**610**	**66**	**3.0**	**410**	**350**	**570**
Phenanthrene	10	µg/L	**1.4**	< 0.05	**0.7**	< 0.050	**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**	< 0.050	**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	< 0.0200	< 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	< 0.0500	< 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	**0.28**	**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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	< 0.00020	**0.00026 J**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0100	< 0.010	< 0.010
Cadmium	0.005	mg/L	< 0.005	< 0.0050	< 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
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010
Copper	1.3	mg/L	**0.0225**	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	< 0.0019	**0.0030 JB**	< 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	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	**0.013**	**0.016**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Lead	0.015	mg/L	< 0.01	< 0.0100	< 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
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	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	< 0.0023	**0.0029 J**	**0.0025 J**	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	**0.0017 J**	< 0.0200	< 0.02	< 0.02
Selenium	0.05	mg/L	< 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	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02
Thallium	0.002	mg/L	< 0.02	< 0.0200	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010
Zinc	2	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0087	< 0.0087	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0200	< 0.02	< 0.02

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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-321 (Continued)																
		Sample Date	7/11/2006	7/06 DUP	1/14/2006	01/06 DUP	7/21/2005	1/21/2005	7/16/2004	1/23/2004	01/04 DUP	7/17/2003	07/03 DUP	1/22/2003	01/03 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**	**1.5 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 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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	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	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	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.095	< 0.11	< 0.099	< 19	< 0.20	< 0.19	< 3.9	< 0.20	< 0.050	< 0.05	< 0.05
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.095	< 0.11	< 0.099	< 19	< 0.20	< 0.19	< 3.9	< 0.20	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.043	< 0.050	< 0.044	< 19	< 0.20	< 0.19	< 3.9	< 0.20	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.19	< 0.095	< 0.11	< 0.099	< 19	< 0.20	< 0.19	< 3.9	< 0.20	< 0.050	< 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	**100 B**	**0.15**	< 10	**290**	**760**
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.0200	< 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
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	< 0.020	< 0.010	< 0.010	< 0.0500	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00022 JB**	< 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	< 0.0050	< 0.0050	**0.0066**	**0.0073**	< 0.0050	< 0.0020	**0.0020 J**	**0.0020 J**	< 0.0050	< 0.0050	< 0.0050	**0.00069 J**	< 0.0050	< 0.0050	< 0.005	< 0.005
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	**0.0043 J**	**0.0013 J**	< 0.010	< 0.010	< 0.010	**0.0028 J**	< 0.010	< 0.0100	< 0.010	< 0.010
Copper	1.3	mg/L	< 0.01	< 0.01	**0.0176**	**0.0161**	**0.0192**	< 0.020	< 0.020	**0.0040 J**	**0.0064 J**	**0.0098 JB**	< 0.020	< 0.020	< 0.020	**0.013 J**	**0.0097 J**	< 0.0100	< 0.010	< 0.010
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	**0.0095 J**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
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	< 0.010	< 0.0050	**0.0031 J**	< 0.0100	< 0.010	< 0.010
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	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	**0.0028 J**	**0.0029 J**	**0.0034 J**	< 0.040	< 0.040	< 0.040	**0.0088 J**	**0.0069 J**	< 0.0200	< 0.02	< 0.02
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	< 0.020	< 0.010	< 0.010	< 0.0200	< 0.02	< 0.02
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	< 0.0010	< 1.00	< 1.00	< 1
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	**0.0052 J**	**0.0042 J**	< 0.0100	< 0.010	< 0.010
Zinc	2	mg/L	< 0.02	**0.0205**	< 0.0200	< 0.0200	**0.0337**	< 0.020	< 0.020	< 0.0087	**0.0091 J**	< 0.0087	< 0.020	< 0.020	< 0.020	**0.033**	**0.018 J**	< 0.0200	< 0.02	< 0.02

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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-324 (Continued)												
		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 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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-325																	
		Sample Date	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	During Extraction																	
Volatile Organic Compounds																				
Acetone	4,000	µg/L	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 0.50	< 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	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.096	< 0.10	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.096	< 0.10	< 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	< 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	< 0.10	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 0.043	< 0.045	< 0.050	< 0.049	< 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	< 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	< 0.10	< 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	< 0.10	< 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	< 0.050	< 0.050	< 0.050	< 0.19	< 0.096	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.050	< 0.05	< 0.05
Naphthalene	20	µg/L	**0.76**	< 0.5	< 0.50	< 0.50	< 0.50	< 0.19	< 0.096	< 0.10	< 0.11	< 0.11	< 0.19	< 0.19	< 0.19	**0.058 J**	< 0.19	< 10	< 10	**760**
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 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	< 0.02	< 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
Arsenic	0.05	mg/L	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.0046	**0.0047 J**	< 0.0046	**0.0047 J**	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010	< 0.0500	< 0.05	< 0.05
Barium	2	mg/L	**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	< 0.01	< 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
Cadmium	0.005	mg/L	**0.0122**	**0.009**	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0050	< 0.0050	< 0.0050	**0.00093 J**	< 0.0050	< 0.0050	< 0.005	< 0.005
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	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0100	< 0.010	< 0.010
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	**0.0023 J**	< 0.020	< 0.0100	< 0.010	< 0.010
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	**0.0083 J**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
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	**0.0023 J**	< 0.0100	< 0.010	< 0.010
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	< 0.00020	< 0.0002	< 0.0002
Nickel	0.1	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 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	< 0.0200	< 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
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
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	<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**	< 0.0100	< 0.010	< 0.010
Zinc	2	mg/L	**0.127**	**0.0573**	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.0087	< 0.0087	< 0.0087	< 0.0087	< 0.020	< 0.020	< 0.020	**0.015 J**	< 0.020	< 0.0200	< 0.02	< 0.02

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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-325 (Continued)										
		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**

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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-500BR																	
		Sample Date	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	During Extraction																	
Volatile Organic Compounds																				
Acetone	4,000	µg/L	< 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	**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	< 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	< 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	< 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	< 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	< 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	< 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	< 50	**86**	**48**	**71**	**30**	**42**	< 210	**110**	**60**	**67**	**42**	**38**	**39**	**15**	**15**	**32**	**91 J**	**23**
Acenaphthylene	10	µg/L	< 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	**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	< 0.050	< 0.050	< 0.050	< 0.050	< 19	< 210	< 0.10	< 0.095	< 0.99	< 1.9	<0.19	< 2.0	< 9.4	< 9.4	**0.50 J**	< 0.050	< 0.050
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 19	< 210	< 0.10	< 0.095	< 0.99	< 1.9	<0.19	< 2.0	< 9.4	< 9.4	**0.32 J**	< 0.050	< 0.050
Benzo(b)fluoranthene	0.2	µg/L	< 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	< 0.10	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 19	< 210	< 0.046	< 0.043	< 0.44	< 1.9	<0.19	< 2.0	< 9.4	< 9.4	**0.41 J**	< 0.050	< 0.050
Dibenzo(a,h)anthracene	0.3	µg/L	< 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	**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	**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	< 0.050	< 0.050	< 0.050	< 19	< 210	< 0.10	< 0.095	< 0.99	< 1.9	<0.19	< 2.0	< 9.4	< 9.4	**0.27 J**	< 0.050	< 0.050
Naphthalene	20	µg/L	**1200**	**2,800**	**770**	**2,500**	**460**	**770**	**1600**	**3,100**	**1,300**	**980**	**630**	**550**	**560**	**310**	**310**	**380**	**3,900 J**	**330**
Phenanthrene	10	µg/L	**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	**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	< 0.02	< 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	< 0.020	< 0.020
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	< 0.020	< 0.010	< 0.010	< 0.010	< 0.050	< 0.050
Barium	2	mg/L	**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	< 0.01	< 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	< 0.0040	< 0.0040	< 0.010	< 0.010
Cadmium	0.005	mg/L	**0.0237**	< 0.0050	< 0.0050	**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	< 0.0050	< 0.0050	< 0.0050
Chromium	0.1	mg/L	< 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	< 0.010	< 0.010	< 0.010
Copper	1.3	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	**0.0034 JB**	**0.0025 J**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.010
Cyanide	0.2	mg/L	< 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
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	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010
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	< 0.00020	< 0.00020
Nickel	0.1	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	**0.0027 J**	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.020	< 0.020
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	< 0.020	< 0.010	< 0.010	< 0.010	< 0.020	< 0.020
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	< 0.0010	< 0.0010	< 1.00	< 1.00
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	< 0.010	< 0.010	< 0.010	< 0.010
Zinc	2	mg/L	**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 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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-503BR														MW-504BR													
		Sample Date	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	7/29/2015	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	During Extraction														During Extraction													
Volatile Organic Compounds																														
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 200	< 100	**13 J**	< 50	< 5.0	< 5000	<2000	< 20000	< 20000	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0	< 1000	< 1000	< 1000	< 2000
Benzene	5	µg/L	**790**	**35**	**910**	< 5.0	**180**	**300**	**770 D**	**20**	**1,200**	< 0.25	**5,200**	**1,700**	**13,000**	**26,000**	**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	< 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	< 0.60	< 0.60	< 0.60	< 50	< 50	< 50	**14 J**
Ethylbenzene	700	µg/L	**65**	< 5	**86**	< 5.0	**18**	**44**	**36**	**2.2 J**	**70**	**1.7 J**	**370**	**120**	< 1000	**1,100**	**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	< 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	< 1.0	< 1.0	< 1.0	< 50	< 50	< 50	**230**
Toluene	1,000	µg/L	**240**	**12**	**270**	< 5.0	**77**	< 10	**230**	**8.7**	**410**	**1.1 J**	**2,100**	**620**	**4,600**	**8,500**	**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	< 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	< 0.13	< 0.13	< 0.13	< 50	< 50	< 50	< 100
Xylenes, total	2,000	µg/L	**76**	< 5	**100**	< 5.0	**26**	**22**	**88**	**3.4 J**	**130**	**0.29 J**	**740**	**180**	< 1000	**2,200**	**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	< 0.50	< 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	< 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	**0.39**	< 20	**0.20**	**1.9**	< 0.099	**7.3 J**	**2.4**	**8.7**	**66 ***	**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	< 0.050	**0.05**	< 0.050	**0.053**	< 0.20	< 20	< 0.096	**0.24**	< 0.099	< 9.4	< 1.9	< 3.8	< 38 *	**0.067**	< 0.05	**0.25**	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 20	**0.098 J**	**0.16 J**	< 0.099	< 9.4	< 1.9	< 3.8	< 38	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 20	**0.11 J**	**0.16 J**	< 0.099	< 9.4	< 1.9	< 3.8	< 38	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.10	< 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	< 0.10	< 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	< 0.10	< 0.10	< 0.10	< 0.20	< 20	**0.097 J**	**0.21**	< 0.099	< 9.4	< 1.9	< 3.8	< 38	< 0.1	< 0.10	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 20	< 0.096	**0.19**	< 0.099	< 9.4	< 1.9	< 3.8	< 38 *	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.22	< 0.96	< 0.096	< 0.099	< 1.9	< 1.9	< 3.9	< 19
Chrysene	0.2	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 20	**0.075 J**	**0.20**	< 0.045	< 9.4	< 1.9	< 3.8	< 38	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 20	< 0.096	**0.25**	< 0.099	< 9.4	< 1.9	< 3.8	< 38	< 0.1	< 0.10	< 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	< 0.10	< 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	**0.11**	< 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	**0.27**	< 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***	**0.58**	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 20	< 0.096	**0.20**	< 0.099	< 9.4	< 1.9	< 3.8	< 38	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.50	<0.50	**5.1**	**1.1**	**290 D**	**1.6**	**1.2**	**0.22**	**910**	**64**	**1,300 B**	**3,700**	**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	**0.19**	< 0.05	**0.23**	< 0.050	**0.18**	**0.99**	< 20	**0.13 J**	**1.3**	< 0.099	**6.1 J**	**2.4**	**4.9**	**21 J***	**0.57**	**0.088**	**1.3**	**0.056**	< 0.050	**0.24**	< 0.22	**1.0 J**	**0.40**	**0.18 J***	**1.7 J**	**2.1**	**8**	< 19
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.20	< 20	**0.21**	**0.26**	< 0.099	< 9.4	< 1.9	< 3.8	< 38	**0.084**	< 0.05	**0.12**	< 0.050	< 0.050	< 0.20	< 0.22	< 0.96	< 0.096	< 0.099	< 1.9	< 1.9	< 3.9	< 19
Inorganic Compounds																														
Antimony	0.01	mg/L	< 0.02	< 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	< 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
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	< 0.020	< 0.010	< 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
Barium	2	mg/L	**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**	**0.186**	**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	< 0.01	< 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	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 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	< 0.0050	< 0.0050	**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	< 0.0050	< 0.0050	< 0.0050	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	< 0.0012	**0.0014 J**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	**0.0030 J**	**0.0030 J**	**0.011 JB**	**0.0028 J**	< 0.020	< 0.020	< 0.020	< 0.01	< 0.01	< 0.0100	< 0.0100	**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	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	**0.012**	**0.011**	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	**0.021**	**0.013**	< 0.010	< 0.010	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.01	< 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
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	< 0.0002	< 0.0002	< 0.00020	< 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	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	< 0.0023	< 0.0023	< 0.0023	< 0.040	< 0.040	< 0.040	< 0.040	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 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	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010
Thallium	0.002	mg/L	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0010	< 0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.02	< 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
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	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0024	< 0.0024	< 0.0024	< 0.010	< 0.010	< 0.010	**0.0020 J**
Zinc	2	mg/L	**0.0757**	**0.0378**	< 0.0200	**0.0365**	**0.0641**	**0.069**	< 0.020	**0.024**	**0.051**	**0.066**	**0.036**	**0.089**	< 0.020	< 0.020	**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 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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-506BR - DESTROYED								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	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								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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 0.50	< 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	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 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	< 0.10	< 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	< 0.10	< 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	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 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	< 0.10	< 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	< 0.10	< 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	< 0.10	< 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	0.072	< 0.050	< 0.050	< 0.050	< 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	< 0.50	< 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	< 0.050	< 0.050	< 0.050	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 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	< 0.020	< 0.0053	< 0.0053	< 0.0053	< 0.020	< 0.020	< 0.020	< 0.020	< 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
Arsenic	0.05	mg/L	< 0.020	< 0.0046	< 0.0046	< 0.0046	< 0.020	< 0.020	< 0.020	< 0.010	< 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
Barium	2	mg/L	**0.45**	**0.40**	**0.29**	**0.37**	**0.32**	**0.45**	**0.38**	**0.075**	**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	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 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	< 0.0050	< 0.0050	< 0.0050	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 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	< 0.020	< 0.0019	< 0.0019	**0.0051 JB**	**0.0059 J**	< 0.020	< 0.020	**0.012 J**	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 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	< 0.010	< 0.010	< 0.010	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050
Mercury	0.002	mg/L	< 0.00020	< 0.000091	< 0.000091	< 0.000091	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 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	< 0.040	< 0.0023	**0.0025 J**	< 0.0023	< 0.040	< 0.040	< 0.040	**0.0035 J**	**0.0211**	< 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
Selenium	0.05	mg/L	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 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	< 0.02	< 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
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	< 0.0100	< 0.0100	< 0.0100	< 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**	**0.0574**	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0087	< 0.0087	**0.0090 J**	**0.019 J**	**0.03**	< 0.020	**0.017 J**

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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-508BR														
		Sample Date	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
		Unit	During Extraction														
Volatile Organic Compounds																	
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	**11 J**	< 5.0	< 100	< 100	< 100	**50 J**
Benzene	5	µg/L	< 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**
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	< 0.60	< 5.0	< 5.0	< 5.0	**7.5**
Ethylbenzene	700	µg/L	< 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	< 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
Toluene	1,000	µg/L	< 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**
Trichloroethylene	5	µg/L	< 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	< 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	< 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**
Acenaphthylene	10	µg/L	< 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**
Anthracene	10	µg/L	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.10	< 0.11	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.10	< 0.11	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.10	< 0.11	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19
Benzo(b)fluoranthene	0.2	µg/L	< 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
Benzo(g,h,i)perylene	10	µg/L	< 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
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.10	< 0.11	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19
Chrysene	0.2	µg/L	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.046	< 0.048	< 0.043	< 0.19	< 0.19	< 0.19	< 0.19
Dibenzo(a,h)anthracene	0.3	µg/L	< 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
Fluoranthene	1,000	µg/L	< 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
Fluorene	1,000	µg/L	< 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
Indeno(1,2,3-cd)pyrene	0.4	µg/L	< 0.05	< 0.05	**0.067**	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.10	< 0.11	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19
Naphthalene	20	µg/L	< 0.5	< 0.5	< 0.5	< 0.50	<0.50	**1.6**	< 0.20	**0.59**	**0.24**	**0.52**	**0.099 J**	**0.44**	< 0.19	< 0.19	**0.096 J**
Phenanthrene	10	µg/L	< 0.05	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.10	< 0.11	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19
Pyrene	1,000	µg/L	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.19	< 0.10	< 0.11	< 0.096	< 0.19	< 0.19	< 0.19	< 0.19
Inorganic Compounds																	
Antimony	0.01	mg/L	< 0.02	< 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
Arsenic	0.05	mg/L	< 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
Barium	2	mg/L	**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**
Beryllium	0.004	mg/L	< 0.01	< 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
Cadmium	0.005	mg/L	< 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
Chromium	0.1	mg/L	**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**
Copper	1.3	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	**0.0021 J**	**0.0024 J**	**0.0044 JB**	< 0.020	< 0.020	< 0.020	**0.0038 J**
Cyanide	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	**0.0056 J**	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010
Lead	0.015	mg/L	< 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
Mercury	0.002	mg/L	< 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	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	**0.0055 J**	**0.0055 J**	**0.0065 J**	**0.0066 J**	< 0.040	< 0.040	**0.0035 J**
Selenium	0.05	mg/L	< 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	< 0.010
Thallium	0.002	mg/L	< 0.02	< 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
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0086 J**	**0.0067 J**	**0.0068 J**	**0.0045 J**	< 0.010	< 0.010	< 0.010
Zinc	2	mg/L	< 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

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-509BR													
		Sample Date	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	During Extraction													
Volatile Organic Compounds																
Acetone	4,000	µg/L	< 50	< 50	< 2500	< 50	< 50	< 2,000	< 2,000	< 50	< 50	< 100	< 2000	< 5000	< 5000	< 10000
Benzene	5	µg/L	**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	< 250	< 5.0	< 5.0	< 100	< 100	< 6.0	< 6.0	< 12	< 100	< 250	< 250	< 500
Ethylbenzene	700	µg/L	**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	< 250	< 5.0	< 5.0	< 100	< 100	< 10	< 10	< 20	< 100	< 250	< 250	**710**
Toluene	1,000	µg/L	**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	< 250	< 5.0	< 5.0	< 100	< 100	< 1.3	< 1.3	< 2.6	< 100	< 250	< 250	< 500
Xylenes, total	2,000	µg/L	**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	**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	**8**	**2.2**	< 1.0	**2.8**	< 20	< 20	**49 D**	**0.36**	**16**	< 19	**41**	**29**	**30 J**
Anthracene	10	µg/L	**0.15**	**0.91**	**0.7**	< 0.050	**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	< 0.050	< 0.050	< 0.050	< 0.050	< 20	< 20	< 2.1	< 0.095	< 1.1	< 19	< 19	< 1.9	< 38
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 20	< 20	< 2.1	< 0.095	< 1.1	< 19	< 19	< 1.9	< 38
Benzo(b)fluoranthene	0.2	µg/L	< 0.1	< 0.10	< 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	< 0.10	< 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	< 0.050	< 0.050	< 0.050	< 0.050	< 20	< 20	< 2.1	< 0.095	< 1.1	< 19	< 19	< 1.9	< 38
Chrysene	0.2	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 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	< 0.10	< 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	**0.45**	**0.32**	< 0.10	**0.52**	< 20	< 20	< 2.1	**0.28**	< 1.1	< 19	< 19	< 1.9	< 38
Fluorene	1,000	µg/L	**0.82**	**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	< 0.050	< 0.050	< 0.050	< 0.050	< 20	< 20	< 2.1	< 0.095	< 1.1	< 19	< 19	< 1.9	< 38
Naphthalene	20	µg/L	**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	**1.2**	**7.9**	**5.2**	< 0.050	**6.3**	< 20	< 20	**34 D**	**3.5**	**11**	< 19	**21**	**14**	**17 J**
Pyrene	1,000	µg/L	**0.13**	**0.52**	**0.35**	< 0.050	**0.49**	< 20	< 20	< 2.1	**0.30**	< 1.1	< 19	< 19	< 1.9	< 38
Inorganic Compounds																
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
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	< 0.020	< 0.010
Barium	2	mg/L	**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	< 0.01	< 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
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.0050	**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	< 0.0100	< 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
Copper	1.3	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 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	< 0.010	< 0.010	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050
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
Nickel	0.1	mg/L	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 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	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064	< 0.020	< 0.020	< 0.020	< 0.010
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
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 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	**0.182**	**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 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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-510BR															MW-511BR															
		Sample Date	7/29/2015	1/14/2015	7/16/2014	1/9/2014	7/11/2013	07/13 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	7/29/2015	1/14/2015	7/15/2014	7/14 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	01/09 DUP
		Unit	During Extraction															During Extraction															
Volatile Organic Compounds																																	
Acetone	4,000	µg/L	< 50	< 50	< 50	<50	< 2,500	< 2,500	< 500	< 10,000	< 100	< 100	< 100	**19 J**	< 200	< 10000	< 20000	< 50	< 50	< 50	< 50	<50	**85**	< 2,000	< 2,000	< 250	560 J	< 250	**350**	< 10000	< 10000	< 10000	< 10000
Benzene	5	µg/L	**250**	**1,100**	**25**	**32**	**22,000**	**6,300**	**370**	**7,800**	**5,400**	**1,500**	**2,100**	**2300**	**96**	**4400**	**35000**	**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	< 250	< 250	< 25	< 500	< 12	< 12	< 12	< 10	<10	< 500	< 1000	< 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	**64**	**180**	**20**	**47**	**1,200**	**310**	**160**	**1200**	**590**	**230**	**630**	**660**	<10	< 500	**760 J**	**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	< 250	< 250	< 25	< 500	< 20	< 20	< 20	< 10	**50**	< 500	< 1000	< 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	**220**	**190**	**30**	**52**	**10,000**	**2,900**	**350**	**4,700**	**2,600**	**1,100**	**1,200**	**1500**	**160**	**5500**	**19000**	**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	< 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	< 100	< 100	< 6.5	< 6.5	< 6.5	< 5.0	< 500	< 500	< 500	< 500
Xylenes, total	2,000	µg/L	**120**	**200**	**24**	**66**	**690**	**690**	**230**	**1,500**	**930**	**520**	**1,100**	**940**	**360**	**3500**	**5200**	< 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	**6.5**	**7.8**	< 0.50	**4.8**	**53**	**15**	**21**	< 190	**39**	**120**	**37**	**16**	**9.3**	**11 ***	**12 J**	**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	**2.8**	**2.7**	< 1.0	<1.0	< 100	**5.1**	< 19	< 190	**110**	**670**	**32**	**170**	**120**	**170**	**150**	< 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	**2.3**	**0.86**	**0.31**	**0.78**	**5.8**	**3.0**	< 19	< 190	< 11	**220**	< 9.6	**24**	**8.5**	< 9.7	< 94	**0.063**	**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	**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	< 0.050	< 0.050	< 0.050	< 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	**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	< 0.050	< 0.050	< 0.050	< 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	**0.92**	**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	< 0.10	< 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	**0.51**	< 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	< 0.10	< 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	**0.4**	< 0.05	< 0.050	<0.050	**0.16**	**0.36**	< 19	< 190	< 11	**110**	< 9.6	**7.1**	**2.2**	< 9.7	< 94	< 0.05	< 0.050	< 0.050	< 0.050	< 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	**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	< 0.050	< 0.050	< 0.050	< 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	< 0.10	< 0.10	< 0.10	**0.10**	< 19	< 190	< 11	**16**	< 9.6	< 1.9	**0.46**	< 9.7	< 94	< 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	**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	< 0.10	< 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	**8.4**	**4.7**	**0.61**	**4.7**	**42**	**14**	< 19	< 190	**39**	**590**	**30**	**67**	**43**	**44**	**31 J**	**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	**0.39**	**0.058**	< 0.050	<0.050	**0.15**	**0.45**	< 19	< 190	< 11	**50**	< 9.6	**4.1**	**1.8**	< 9.7	< 94	< 0.05	< 0.050	< 0.050	< 0.050	< 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	**300**	**0.64**	<0.50	**2,400**	**0.65**	**680**	**3,600**	**4,700 D**	**6,000**	**3,700**	**1400**	**2100**	**6600 B**	**6900**	< 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	**9.6**	**5.6**	**0.66**	**0.96**	**47**	**17**	< 19	< 190	**37**	**1,000**	**27**	**120**	**56**	**41**	**32 J**	**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	**4.8**	**0.97**	**0.45**	**0.89**	**4.4**	**3.9**	< 19	< 190	< 11	**530**	< 9.6	**44**	**12**	**11**	< 94	**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	< 0.02	< 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	< 0.02	< 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
Arsenic	0.05	mg/L	< 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	< 0.05	< 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
Barium	2	mg/L	**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**	**0.0712**	**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	< 0.01	< 0.0100	< 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	< 0.01	< 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
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.0050	**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	< 0.0050	< 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
Chromium	0.1	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 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	< 0.0100	< 0.0100	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	**0.0026 J**	< 0.0019	**0.0044 JB**	**0.0020 J**	< 0.020	< 0.020	< 0.020	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 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	**0.012**	< 0.010	< 0.010	**0.014**	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010	< 0.01	< 0.01	< 0.010	< 0.010	< 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	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0040	< 0.0040	< 0.0040	< 0.010	< 0.010	< 0.010	< 0.0050	< 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	< 0.0050	< 0.0050
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	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 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
Nickel	0.1	mg/L	< 0.02	< 0.0200	< 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	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 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	< 0.0200	< 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	< 0.02	< 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
Thallium	0.002	mg/L	< 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	< 0.02	< 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
Vanadium (fume or dust)	0.2	mg/L	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	**0.0030 J**	< 0.0024	**0.0030 J**	< 0.010	< 0.010	< 0.010	**0.0040 J**	< 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
Zinc	2	mg/L	**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**	**0.0567**	< 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	0.028	< 0.020

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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blank

Appendix E-2
Summary of Historical Groundwater Sampling Data - Transition Zone and Bedrock Monitoring Wells
January 2001 through July 2015
Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Chemical Name	Type 1 Risk Reduction Standard	Location ID	MW-512BR															MW-513BR									
		Sample Date	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	07/10 DUP	7/20/2010	1/12/2010	7/29/2009	1/19/2009	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	During Extraction															During Extraction									
Volatile Organic Compounds																											
Acetone	4,000	µg/L	< 50	< 50	< 50	< 50	< 50	< 500	< 500	< 5.0	< 5.0	< 5.0	**44 J**	**52 J**	< 2000	< 2000	< 2000	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 5.0	< 5.0	< 5.0
Benzene	5	µg/L	< 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	**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	< 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	< 0.60	< 0.60	< 0.60
Ethylbenzene	700	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**8.4**	< 25	**8.4**	**20**	**1.8 J**	**24**	**24**	**560**	**250**	**250**	< 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	< 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	< 1.0	< 1.0	< 1.0
Toluene	1,000	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 0.33	**3.4 J**	< 0.33	**1.0 J**	**0.91 J**	< 100	< 100	**130**	< 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	< 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	**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	< 25	**1.4 J**	**34**	**3.3 J**	**7.5 J**	**7.3 J**	**200**	**110**	**160**	< 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	< 0.5	**2.5**	**3**	**0.95**	**1.7**	**1.2**	< 19	**2.4**	**12**	**2.4**	**0.77**	**1.7**	**26**	**10 ***	**6.8 J***	< 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	< 0.19	< 19	**0.16 J**	< 0.99	**0.39**	**0.13 J**	**0.55**	**2.7**	**3.5**	**4.0 J***	< 1.0	< 1	< 1.0	< 1.0	< 1.0	< 0.20	< 0.20	**0.16 J**	< 0.097	< 0.095
Anthracene	10	µg/L	< 0.05	**0.051**	**0.088**	**0.072**	**0.066**	< 0.19	< 19	**0.11 J**	< 0.99	< 0.096	< 0.19	**0.11 J**	< 1.9	< 0.94	< 19 *	< 0.05	**0.082**	**0.068**	< 0.050	< 0.050	< 0.20	< 0.20	< 0.11	< 0.097	< 0.095
Benz(a)anthracene	0.1	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 19	< 0.11	< 0.99	< 0.096	< 0.19	< 0.19	< 1.9	< 0.94	< 19	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20	< 0.11	< 0.097	< 0.095
Benzo(a)pyrene	0.2	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 19	< 0.11	< 0.99	< 0.096	< 0.19	< 0.19	< 1.9	< 0.94	< 19	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20	< 0.11	< 0.097	< 0.095
Benzo(b)fluoranthene	0.2	µg/L	< 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	< 0.10	< 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	< 0.10	< 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	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.11	< 0.097	< 0.095
Benzo(k)fluoranthene	10	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 19	< 0.11	< 0.99	< 0.096	< 0.19	< 0.19	< 1.9	< 0.94	< 19 *	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20	< 0.11	< 0.097	< 0.095
Chrysene	0.2	µg/L	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.19	< 19	< 0.049	< 0.44	< 0.043	< 0.19	< 0.19	< 1.9	< 0.94	< 19	< 0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20	< 0.049	< 0.043	< 0.043
Dibenzo(a,h)anthracene	0.3	µg/L	< 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	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.11	< 0.097	< 0.095
Fluoranthene	1,000	µg/L	< 0.1	< 0.10	< 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	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.11	< 0.097	< 0.095
Fluorene	1,000	µg/L	< 0.1	**0.28**	**0.37**	**0.22**	**0.30**	< 0.19	< 19	**0.57**	**2.7**	**0.41**	**0.41**	**0.79**	**5.2**	**3.1**	< 19 *	< 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	**0.081**	< 0.050	< 0.050	< 0.050	< 0.19	< 19	< 0.11	< 0.99	< 0.096	< 0.19	< 0.19	< 1.9	< 0.94	< 19	**0.054**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20	< 0.11	< 0.097	< 0.095
Naphthalene	20	µg/L	**0.69**	< 0.50	**3.7**	<0.50	**7.4**	**15**	**320**	**0.84**	**320**	**12**	< 0.19	< 0.19	**810**	**370 B**	**350**	< 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	< 0.050	**0.27**	**0.44**	**0.41**	< 0.19	< 19	**0.71**	**1.6 J**	**0.23 ***	**0.56**	**0.82**	**4.9**	**3.0**	< 19 *	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20	< 0.11	< 0.097	< 0.095
Pyrene	1,000	µg/L	< 0.05	< 0.050	< 0.050	**0.11**	**0.075**	< 0.19	< 19	**0.18 J**	< 0.99	< 0.096	< 0.19	**0.11 J**	< 1.9	< 0.94	< 19	< 0.05	< 0.05	< 0.050	< 0.050	< 0.050	< 0.20	< 0.20	**0.11 J**	< 0.097	< 0.095
Inorganic Compounds																											
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	< 0.020	< 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	< 0.0500	< 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	< 0.05	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.020	< 0.020	< 0.0046	< 0.0046	< 0.0046
Barium	2	mg/L	**0.19**	**0.154**	**0.192**	**0.256**	**0.171**	**0.13**	**0.23**	**0.13**	**0.24**	**0.11**	**0.062**	**0.064**	**0.15**	**0.079**	**0.22**	**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	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0040	< 0.0040	< 0.00020	< 0.00020	**0.00027 JB**	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 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	< 0.0050	< 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	< 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	< 0.0100	< 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	< 0.01	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.010	< 0.010	< 0.0012	**0.0025 J**	**0.0013 J**
Copper	1.3	mg/L	< 0.01	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.020	< 0.020	< 0.0019	< 0.0019	**0.0027 JB**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 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	< 0.010	< 0.010	< 0.010	< 0.010	< 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	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0050	< 0.0050	< 0.0050
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	< 0.010	< 0.010	< 0.0050	< 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	< 0.00020	< 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	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.000091	< 0.000091	< 0.000091
Nickel	0.1	mg/L	< 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	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.040	< 0.040	< 0.0023	**0.0028 J**	< 0.0023
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	< 0.020	< 0.020	< 0.010	< 0.02	< 0.02	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0064	< 0.0064	< 0.0064
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	< 0.0010	< 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	< 0.0100	< 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	< 0.0100	< 0.0100	**0.0108**	< 0.0100	< 0.010	< 0.010	< 0.0024	**0.012**	< 0.0024
Zinc	2	mg/L	**0.0781**	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0087	< 0.0087	**0.0095 J**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.02	**0.0224**	< 0.0200	< 0.0200	< 0.0200	< 0.020	< 0.020	< 0.0087	**0.030**	< 0.0087

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 for sample
ISCO - *in-situ* chemical oxidation
J - Estimated analyte concentration
JB (Organic) - Estimated analyte concentration; analyte detected in method blanl

Prepared by/date: MBB 10/22/15
Checked by/date: TNK 10/30/15

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	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 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	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
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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	Location ID	MW-11																									
		Sample Date	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
		Unit	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	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	
			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
		Unit	Pre-ISCO						Pre-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**
Benzene	0.005	mg/L	--	**1.9**	**30**	**19 D**	**9.3 D**	**9.6**	**34**	--	**0.00048 J**	0.001 U
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
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**
Ethylbenzene	0.7	mg/L	--	**0.65**	**4.9**	**4.4**	**2.8 D**	**2.4**	**19**	--	0.001 U	0.001 U
Toluene	1	mg/L	--	**0.64**	**11**	**2.2**	**2.5 D**	**2.1**	**0.31 J**	--	**0.00037 J**	0.001 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
Xylenes, total	2	mg/L	--	**0.83**	**3.7**	**2.8**	**2.6**	**2.1**	**49**	--	**0.0014 J**	**0.00023 J**
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**
Acenaphthene	2	mg/L	--	**0.038**	**0.11**	**0.12**	**0.097**	**0.1**	**4.6**	--	**0.015**	**0.018**
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
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**
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**
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**
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**
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**
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**
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**
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
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**
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**
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**
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**
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**
Phenanthrene	*	mg/L	--	**0.007 J**	**0.0099 J**	**0.013 J**	**0.014 J**	**0.015 J**	**10 D**	--	**0.016**	**0.064**
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**
Inorganic Compounds												
Aluminum (fume or dust)	*	mg/L	--	--	**0.041 B**	**0.12 BN**	**2.1**	**0.48**	--	--	**24**	**65**
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	--	--	**0.0052 B**	0.01 U	**0.0077 B**	**0.0048 B**	--	--	0.01 U	**0.014**
Barium	2	mg/L	--	--	**0.15**	**0.16**	**0.17**	**0.16**	--	--	**0.35**	**0.5**
Beryllium	0.004	mg/L	--	--	0.004 U	0.004 U	0.004 U	0.004 U	--	--	**0.00056 J**	**0.0021 B**
Cadmium	0.005	mg/L	--	--	0.005 U	0.005 U	0.005 U	0.005 U	--	--	**0.001 J**	**0.0034 B**
Calcium metal	*	mg/L	--	--	**32**	**54**	**61**	**63**	--	--	**140**	**130**
Chromium	0.1	mg/L	--	--	0.01 U	0.01 U	**0.0025 B**	0.01 U	--	--	**0.038**	**0.1**
Cobalt	*	mg/L	--	--	0.01 U	0.01 U	**0.002 B**	**0.0023 B**	--	--	**0.006 J**	**0.017**
Copper	1.3	mg/L	--	--	**0.0013 B**	**0.0017 B**	**0.0052 B**	**0.008 B**	--	--	**0.017 J**	**0.05**
Cyanide	0.2	mg/L	**0.2**	**0.26**	**0.04**	**0.14**	**0.14**	**0.12**	**1.8**	**1.7**	**0.027**	--
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**
Magnesium	*	mg/L	--	--	**28**	**19**	**24**	**22**	--	--	**31**	**34**
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**
Nickel	0.1	mg/L	--	--	0.04 U	0.04 U	0.04 U	0.04 U	--	--	**0.02 J**	**0.053**
Potassium	*	mg/L	--	--	**7.2**	**9.3**	**8.7**	**7.9**	--	--	**18**	**20**
Selenium	0.05	mg/L	--	--	0.01 U	0.01 U	0.01 U	0.01 U	--	--	0.01 U	**0.0051 B**
Sodium	*	mg/L	--	--	**11**	**10**	**12**	**11**	--	--	**31**	**26**
Thallium	0.002	mg/L	--	--	0.002 U	0.002 UN	0.002 U	0.002 UW	--	--	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	--	--	**0.047**	**0.12**
Zinc	2	mg/L	--	--	0.02 U	0.02 U	**0.0076 B**	0.02 U	--	--	**0.046**	**0.12**

Chemical Name	MW-18																
	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
	Post-ISCO									Pre-ISCO								
Volatile Organic Compounds																		
Acetone	< 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	25 U
Benzene	< 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	**0.22 J**	**0.33 J**
Carbon Disulfide	< 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	1.0 U
Dichloromethane	< 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	5.0 U	5.0 U	**0.55 JB**
Ethylbenzene	< 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	**0.24 J**	1.0 U
Toluene	< 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	1.0 U
Trichloroethylene	**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	1.0 U
Xylenes, total	< 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	2.0 U	**0.6 J**	2.0 U
Semivolatile Organic Compounds																		
2-Methylnaphthalene	--	--	--	--	--	--	--	--	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	< 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	10 U
Acenaphthylene	< 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	10 U
Anthracene	< 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	10 U
Benz(a)anthracene	< 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	10 U
Benzo(a)pyrene	< 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	10 U
Benzo(b)fluoranthene	< 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	10 U
Benzo(g,h,i)perylene	< 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	10 U
Benzo(k)fluoranthene	< 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	10 U
Chrysene	< 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	10 U
Dibenzo(a,h)anthracene	< 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	10 U
Dibenzofuran	--	--	--	--	--	--	--	--	1.0 U	0.2 U	0.2 U	0.2 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	< 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	10 U
Fluorene	< 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	10 U
Indeno(1,2,3-cd)pyrene	< 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	10 U
Naphthalene	< 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	10 U	**0.56 J**	10 U
Phenanthrene	< 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	10 U
Pyrene	< 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	10 U
Inorganic Compounds																		
Aluminum (fume or dust)	--	--	--	--	--	--	--	--	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
Antimony	< 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	0.02 U	**0.0088 B**
Arsenic	< 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	0.01 U
Barium	**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	< 0.0040 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	0.004 U	**0.0019 B**
Cadmium	< 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	0.005 U
Calcium metal	--	--	--	--	--	--	--	--	**21**	**24.4**	**29**	**29**	**36**	**30**	**29**	**33**	**33**	**29**
Chromium	**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	0.01 U
Cobalt	--	--	--	--	--	--	--	--	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	< 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	< 0.010 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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	< 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	--	--	--	--	--	--	--	--	**14.1**	**15.9**	**18**	**18**	**17**	**17**	**17**	**20**	**20**	**19**
Manganese	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	< 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	< 0.040 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	--	--	--	--	--	--	--	--	5 U	**4.85**	**7.4**	**9.7**	**8.8**	**10**	**10**	**11**	**10**	**9.9**
Selenium	< 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	0.01 U
Sodium	--	--	--	--	--	--	--	--	**57.8**	**63.1**	**68**	**64**	**59**	**56**	**57**	**62**	**60**	**55**
Thallium	< 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)	< 0.010 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	< 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	MW-23																
		Sample Date	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
		Unit	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	0.2 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	MW-212						MW-213	MW-301D	MW-301S									MW-308SAP
		Sample Date	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
		Unit	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	0.02 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	0.01 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 / Sample Date / Unit	MW-405D								MW-407D											
			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
			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
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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
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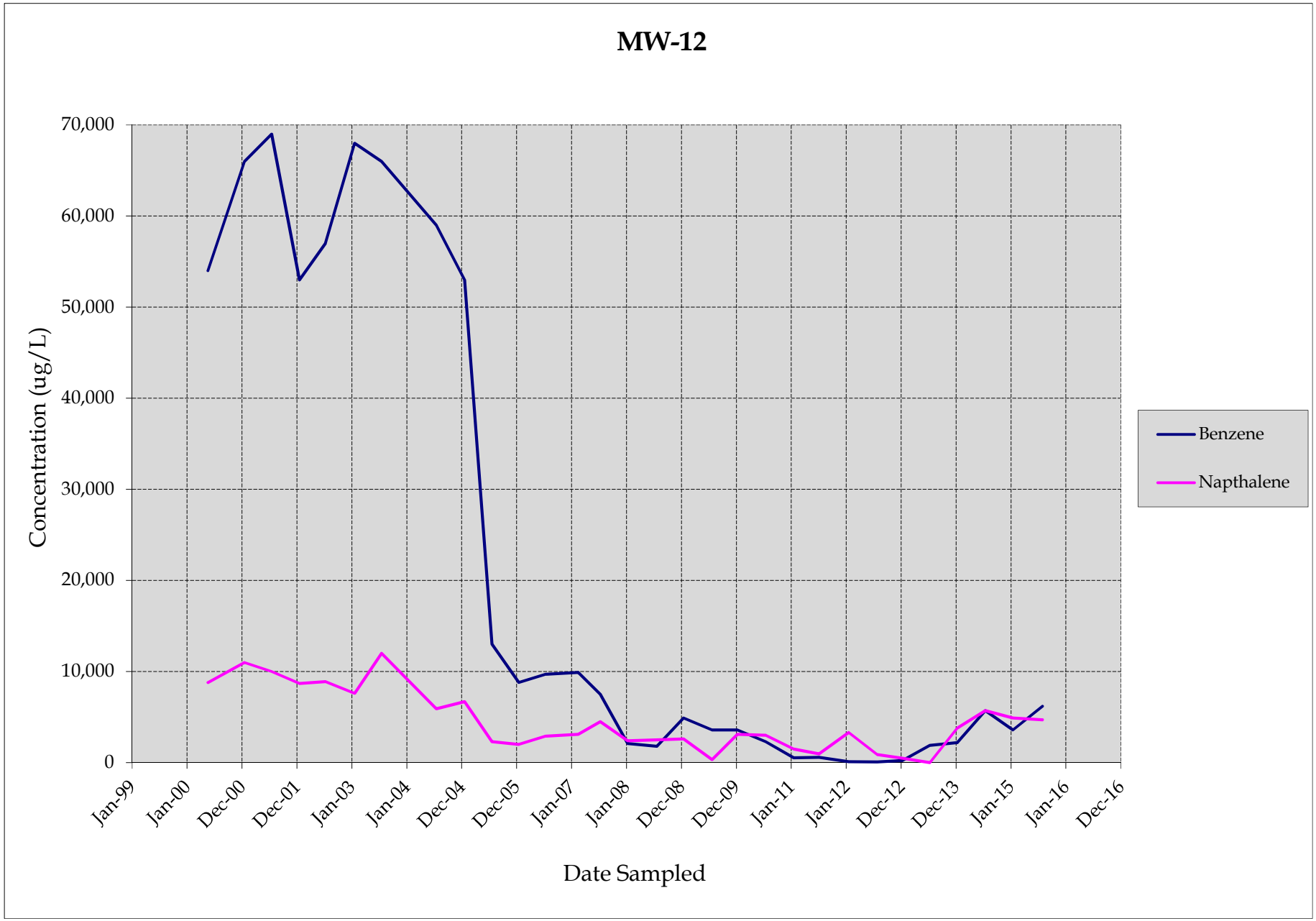
M (Organic) - Spike sample recovery outside control limits
N - Spike sample recovery outside of control limits
RRS - Risk Reduction Standard
U - Analyte not detected at referenced detection limit
UJ - Analyte not detected; low method bias and/or matrix interference
UN - Analyte not detected; spiked sample 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



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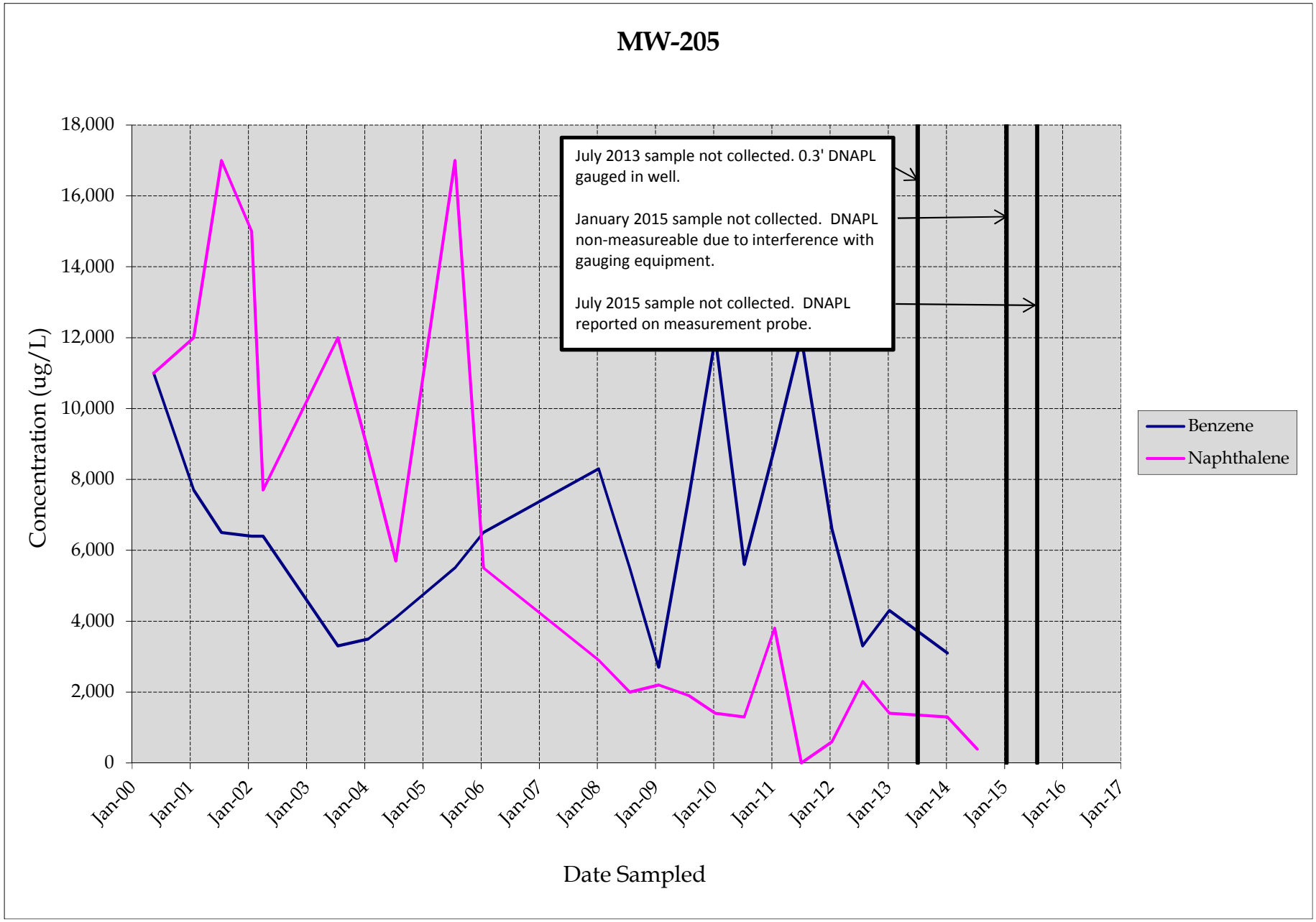
Checked by/date: MBB 11/23/15



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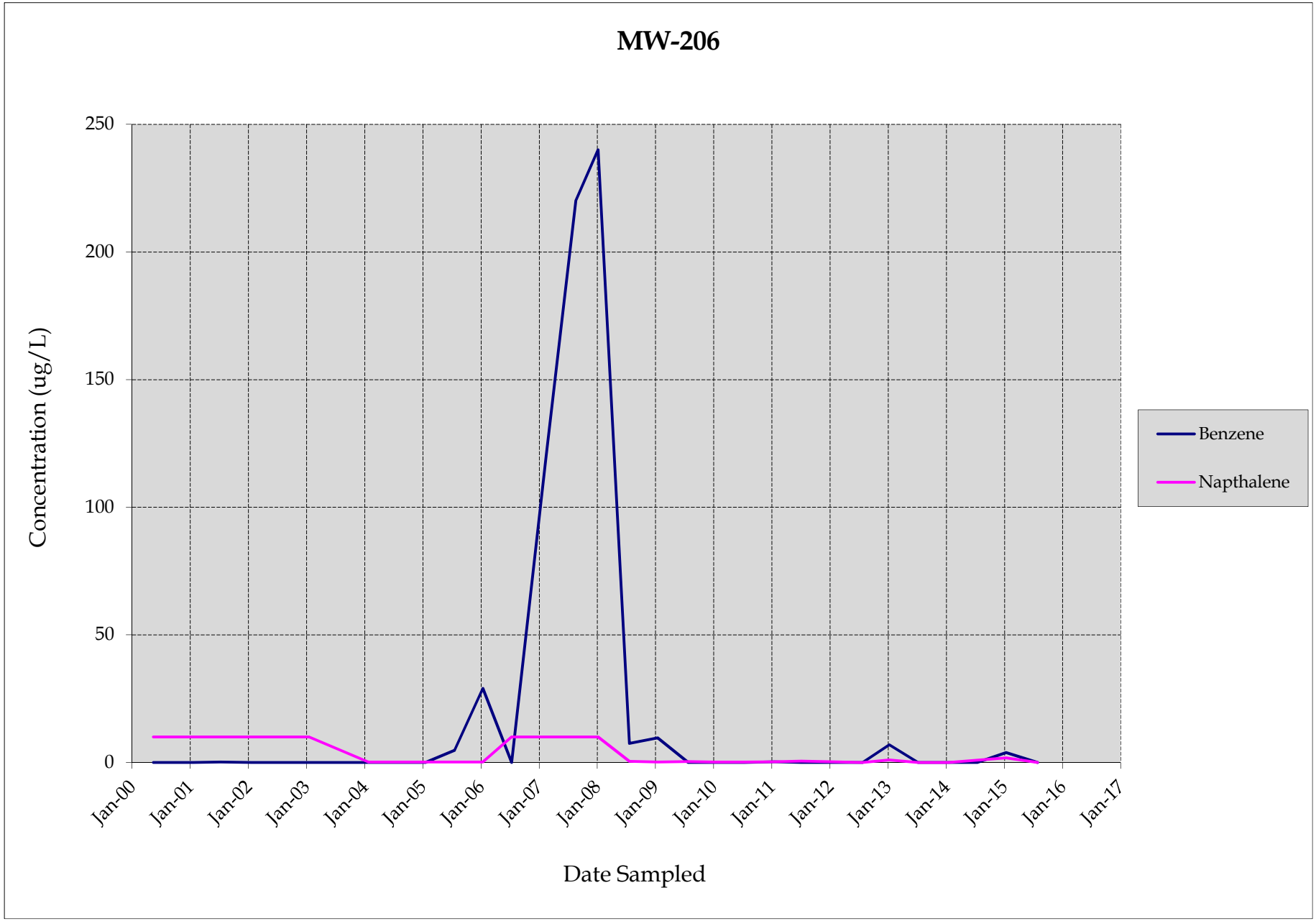
Checked by/date: MBB 11/23/15



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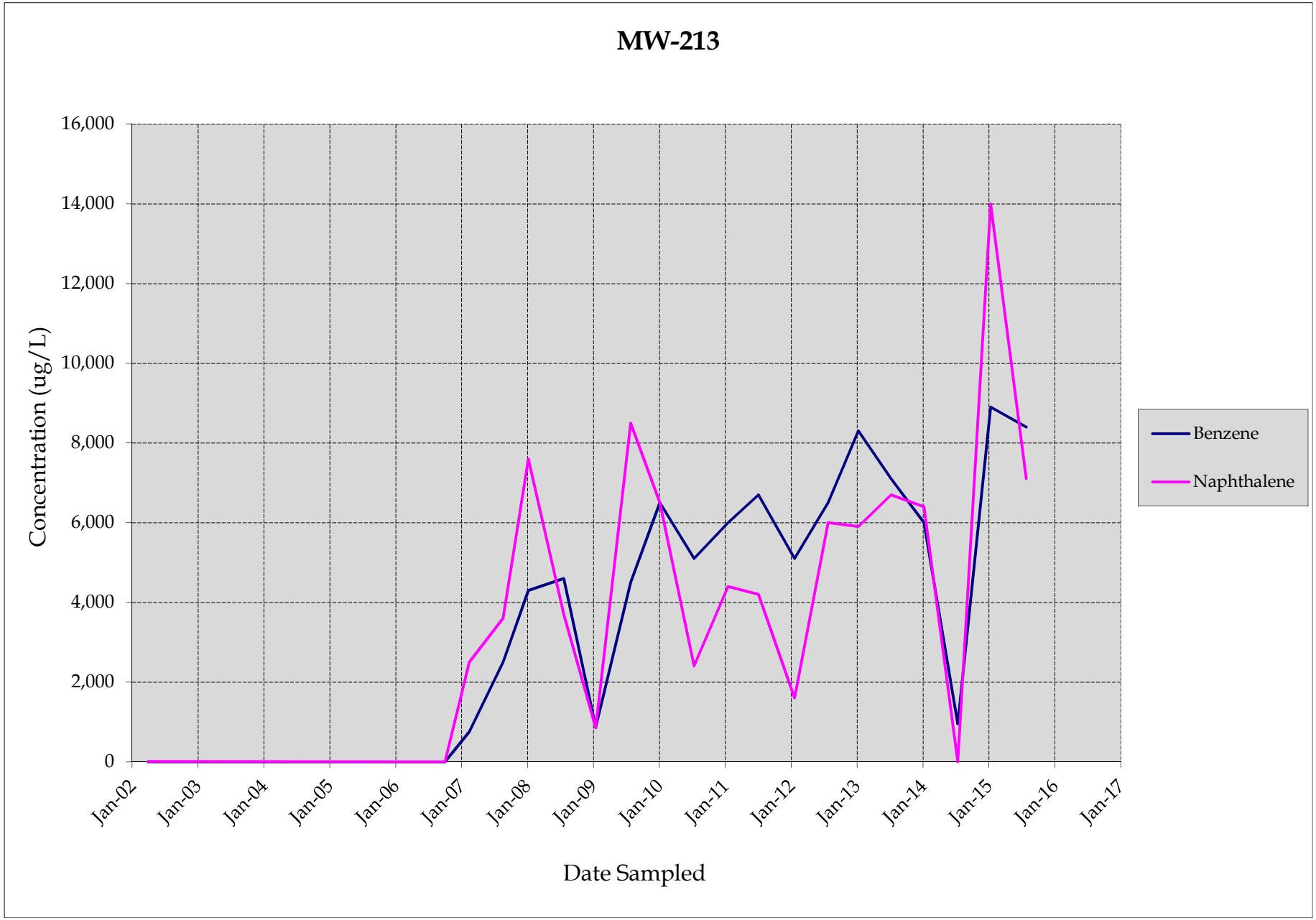
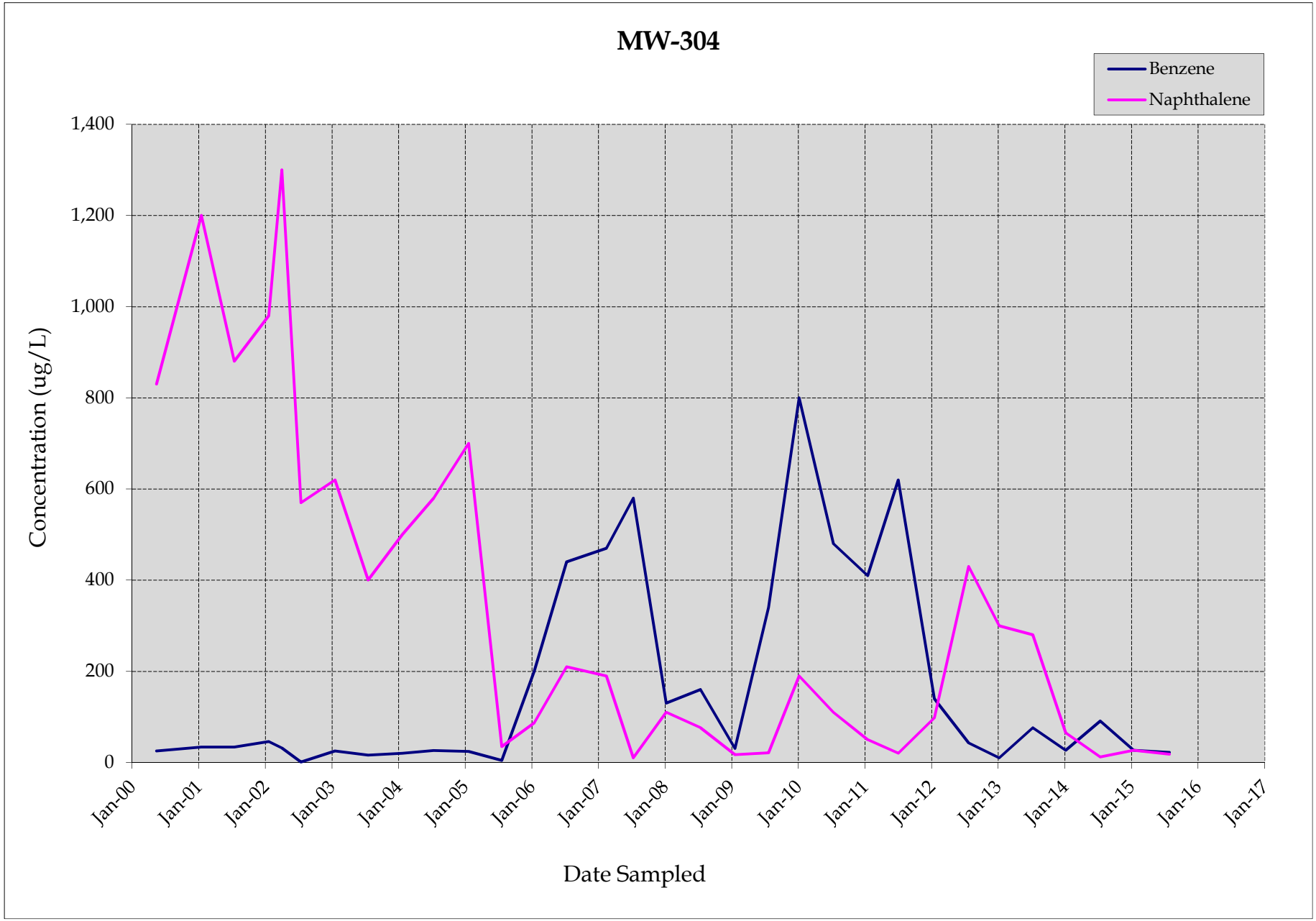
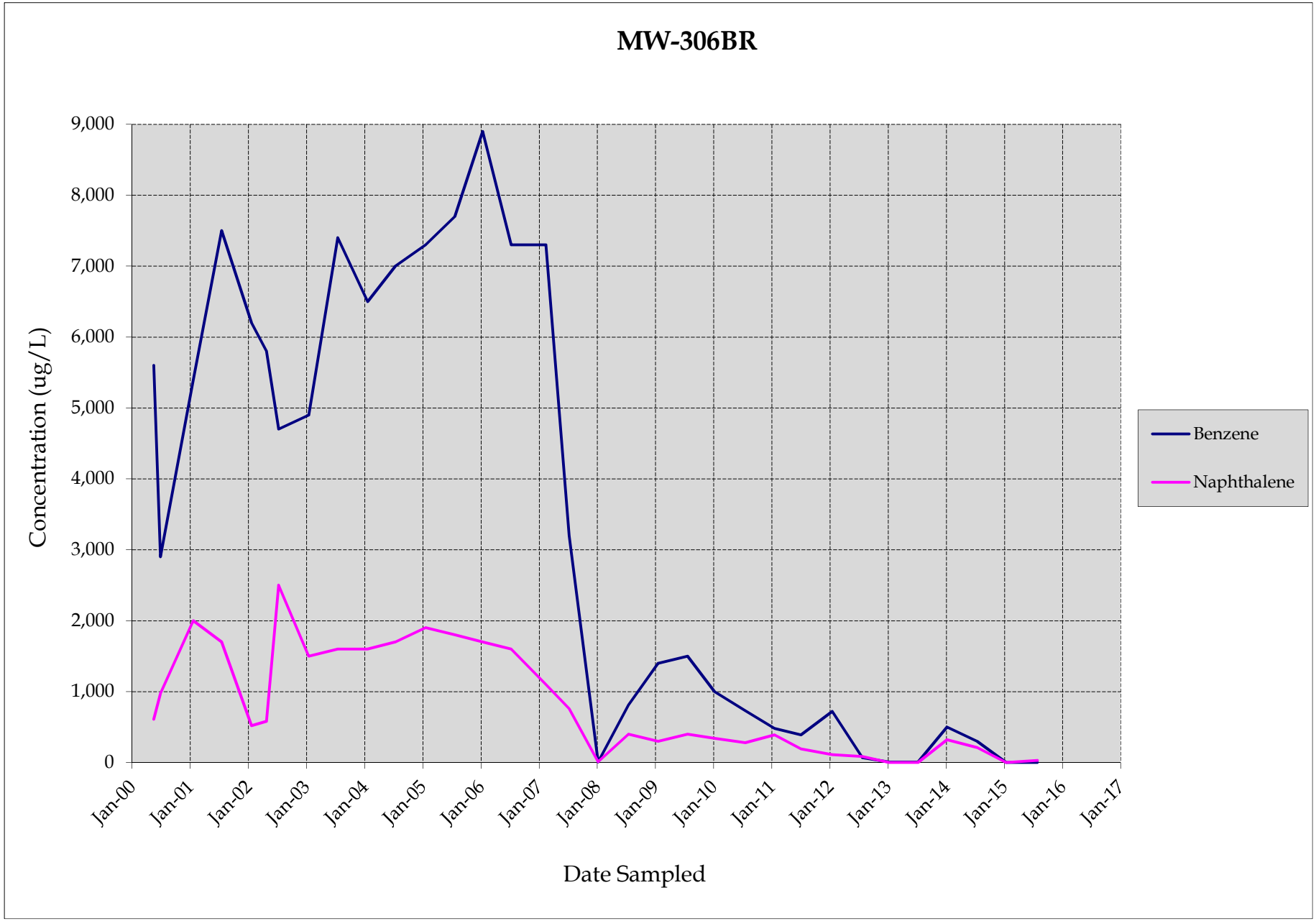
Checked by/date: MBB 11/23/15



Prepared by/date: JMQ 10/29/15
Checked by/date: MBB 11/23/15



Prepared by/date: JMQ 10/29/15
Checked by/date: MBB 11/23/15



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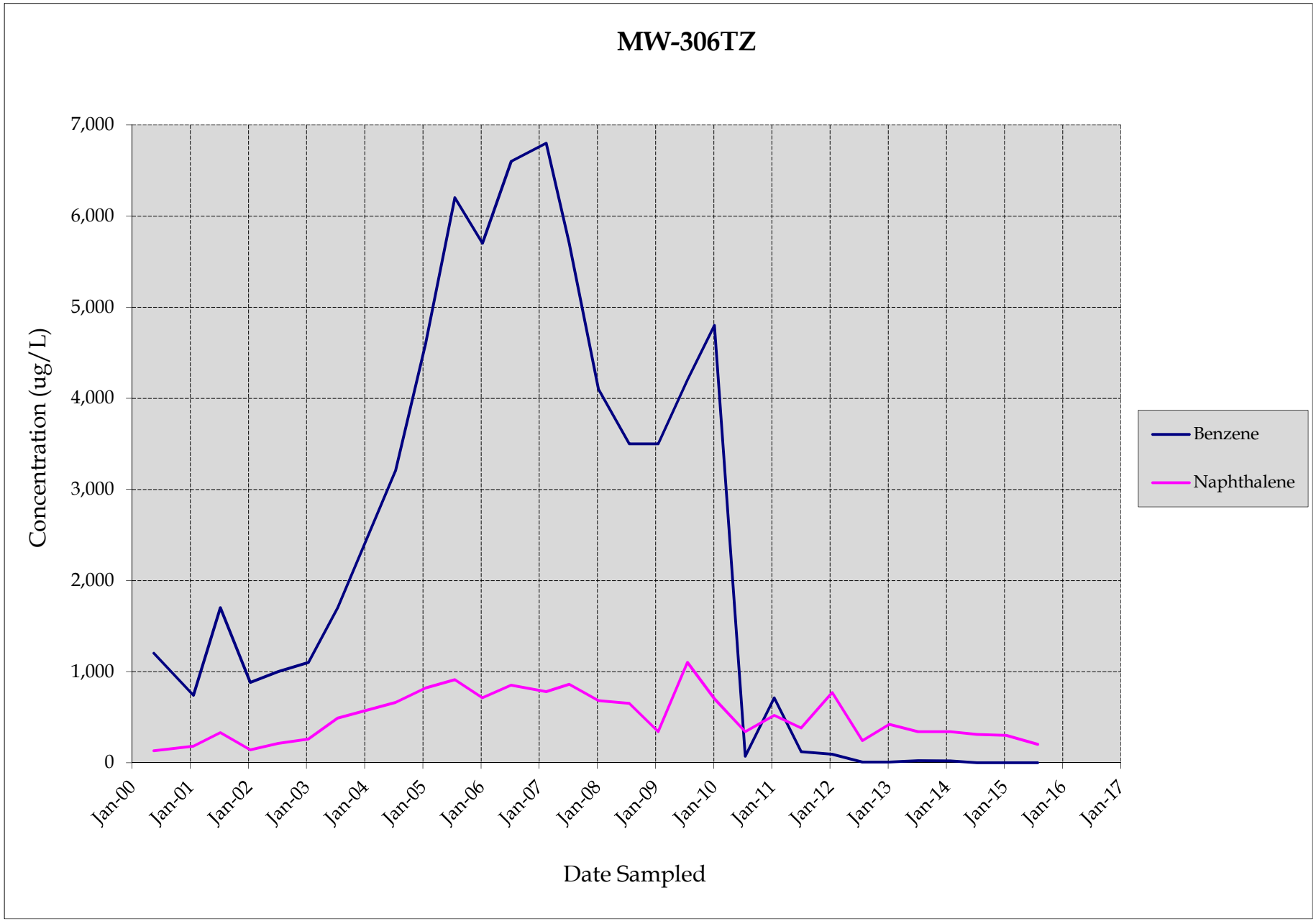
Checked by/date: MBB 11/23/15



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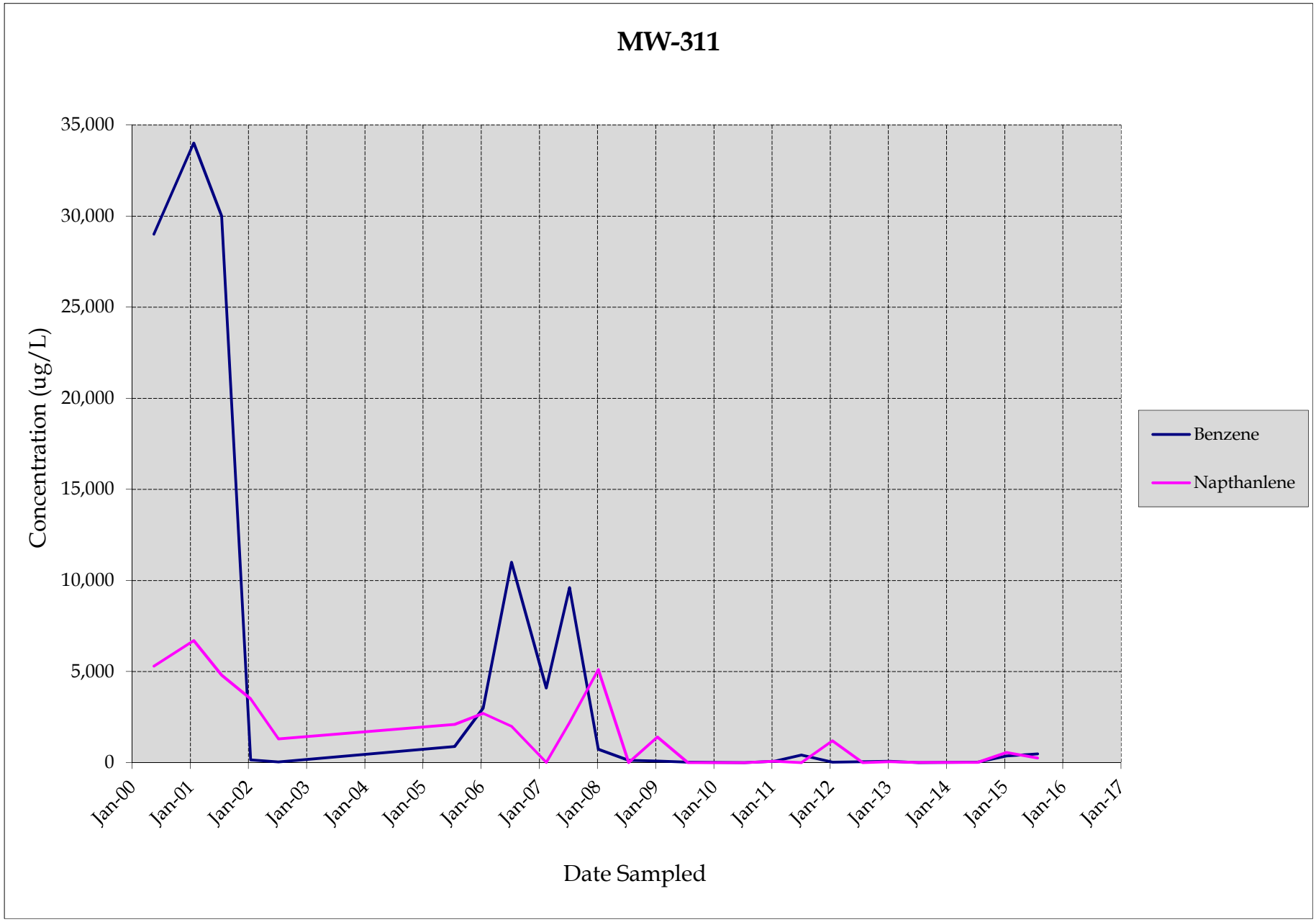

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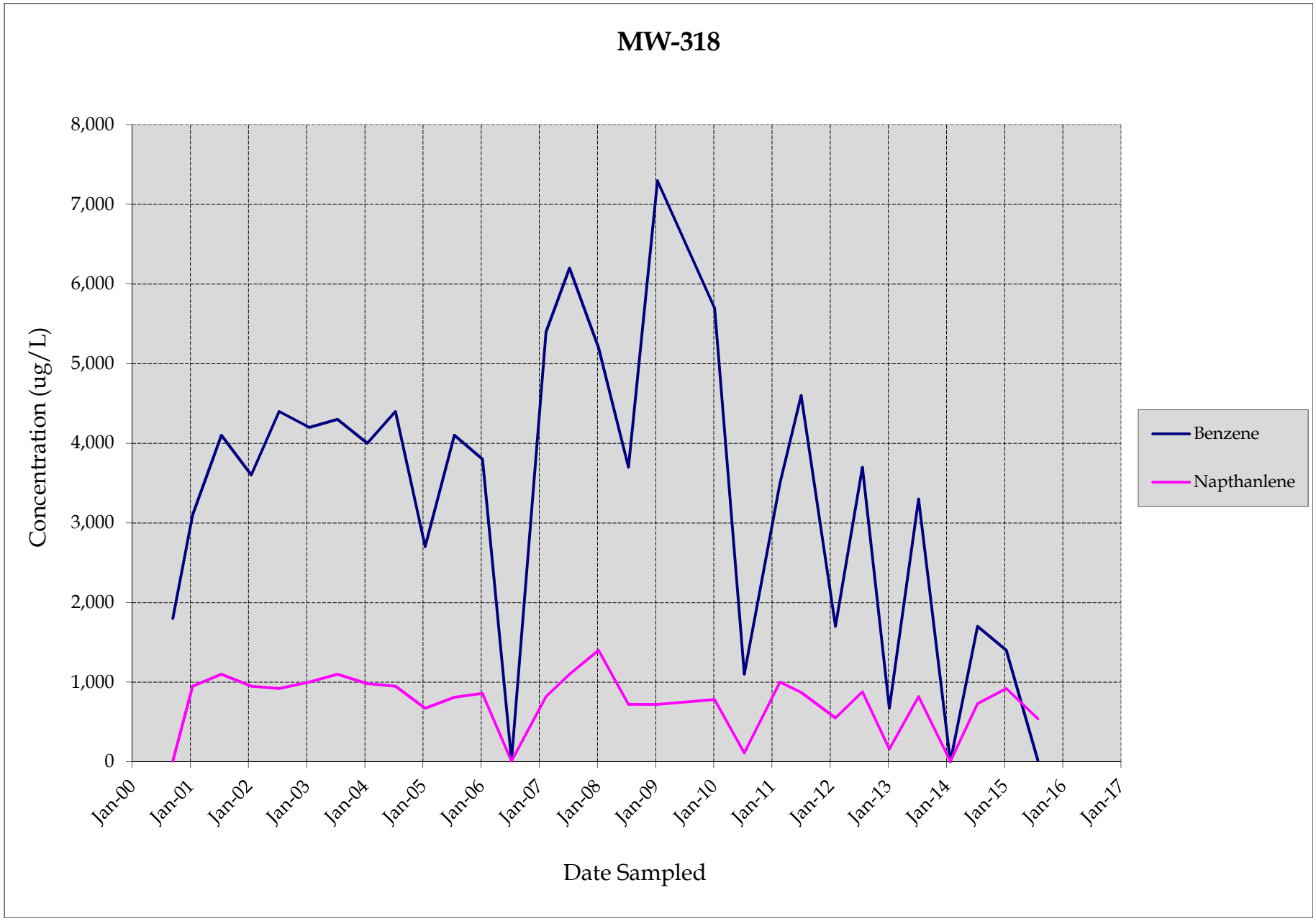

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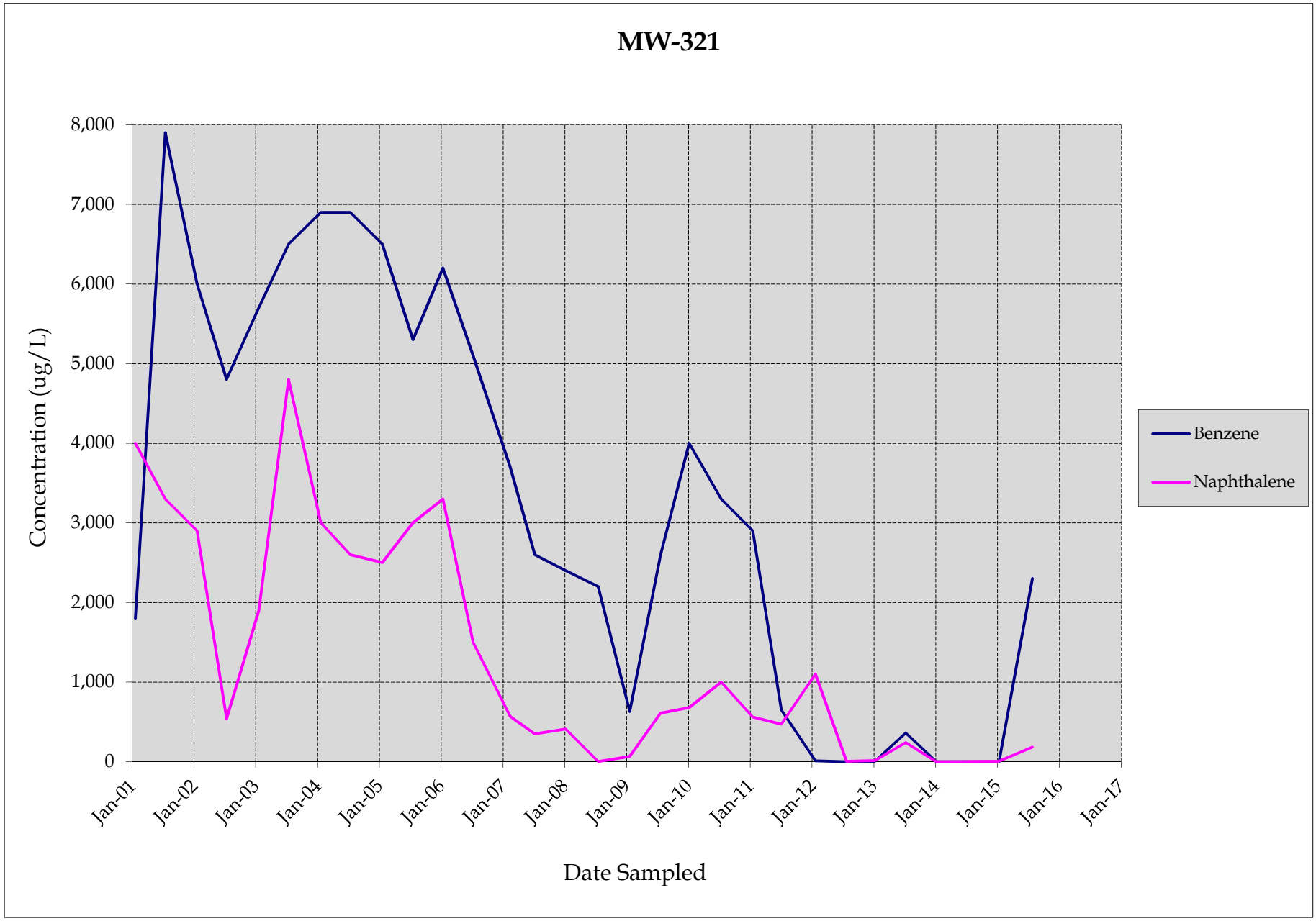

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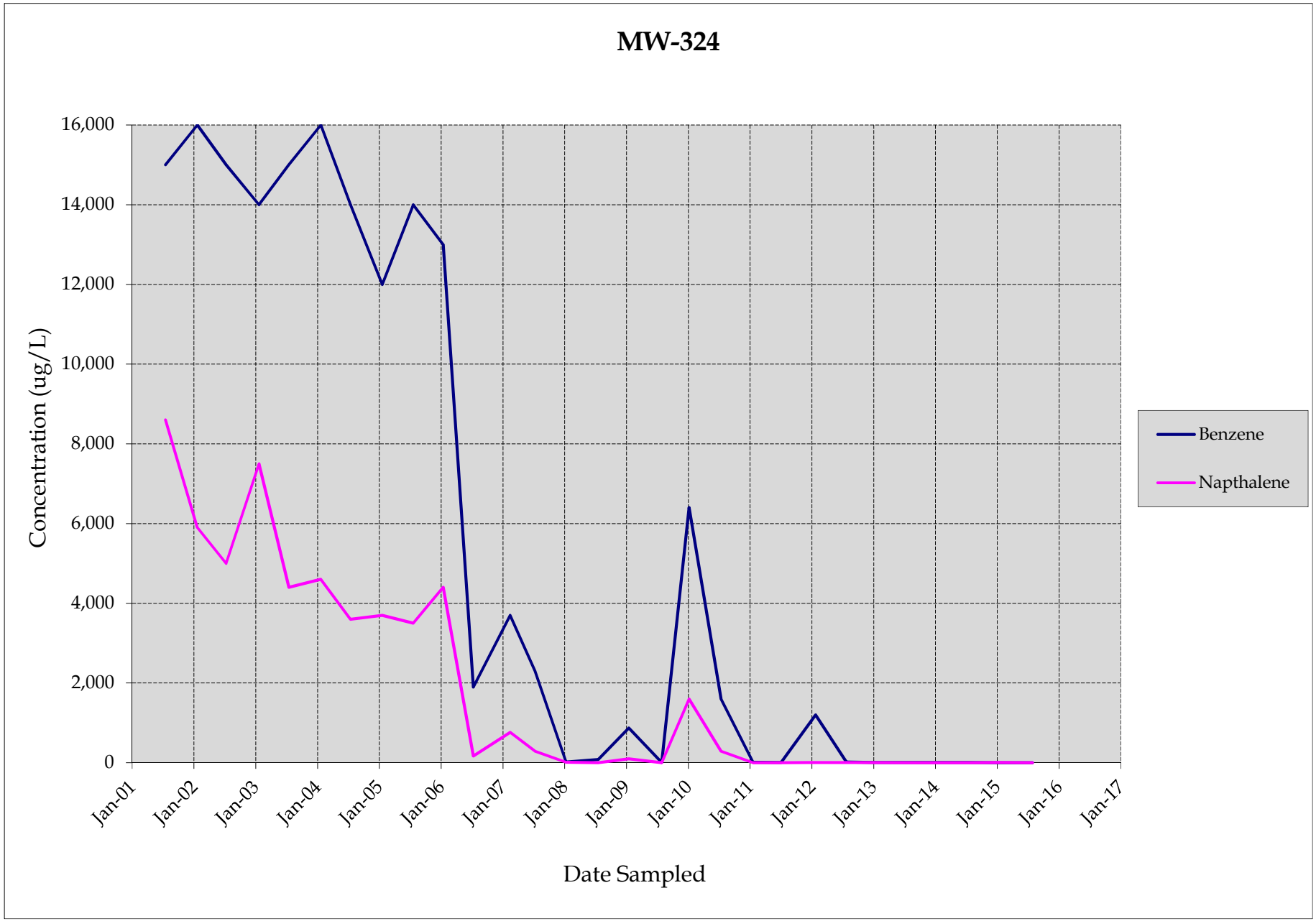

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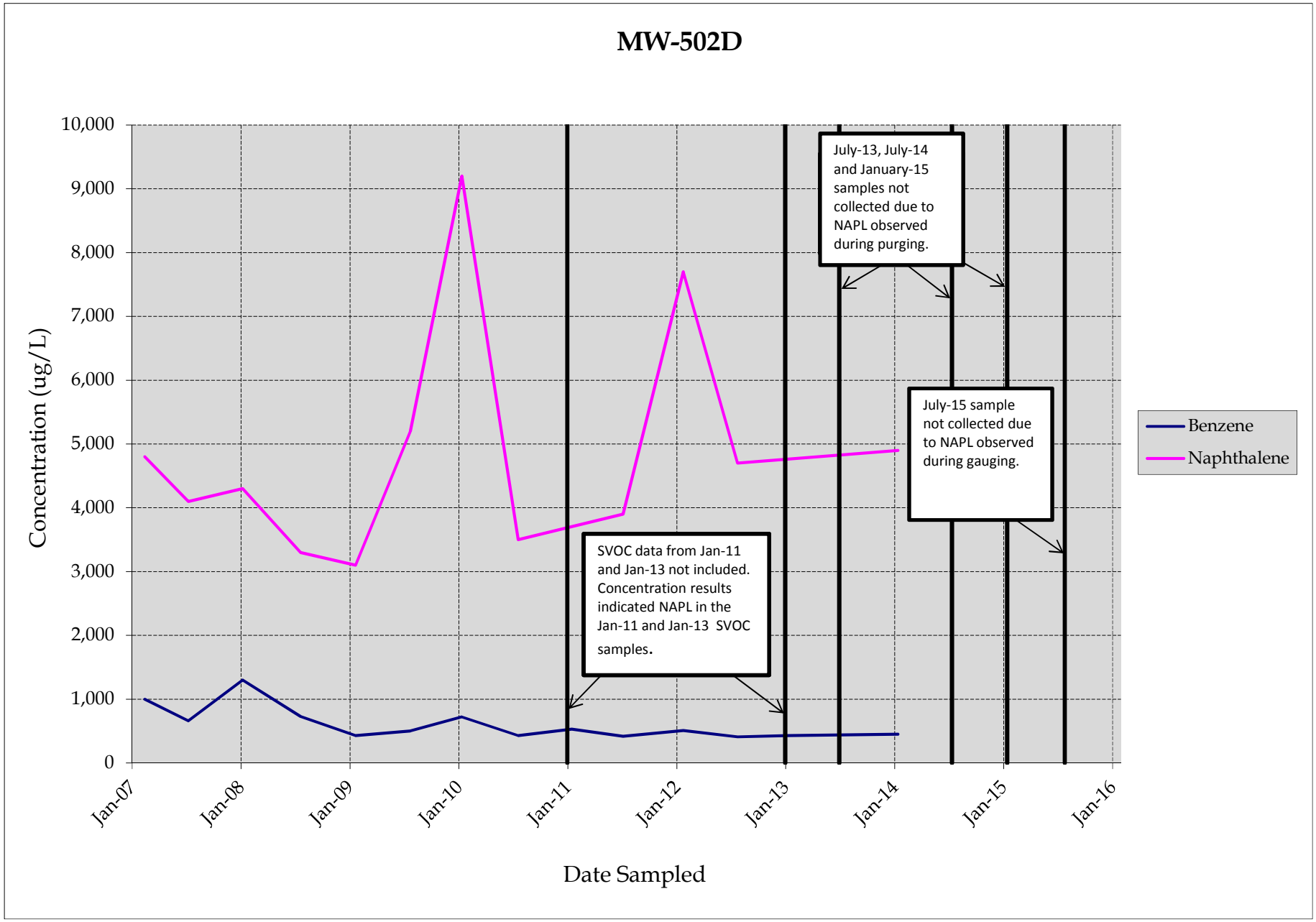

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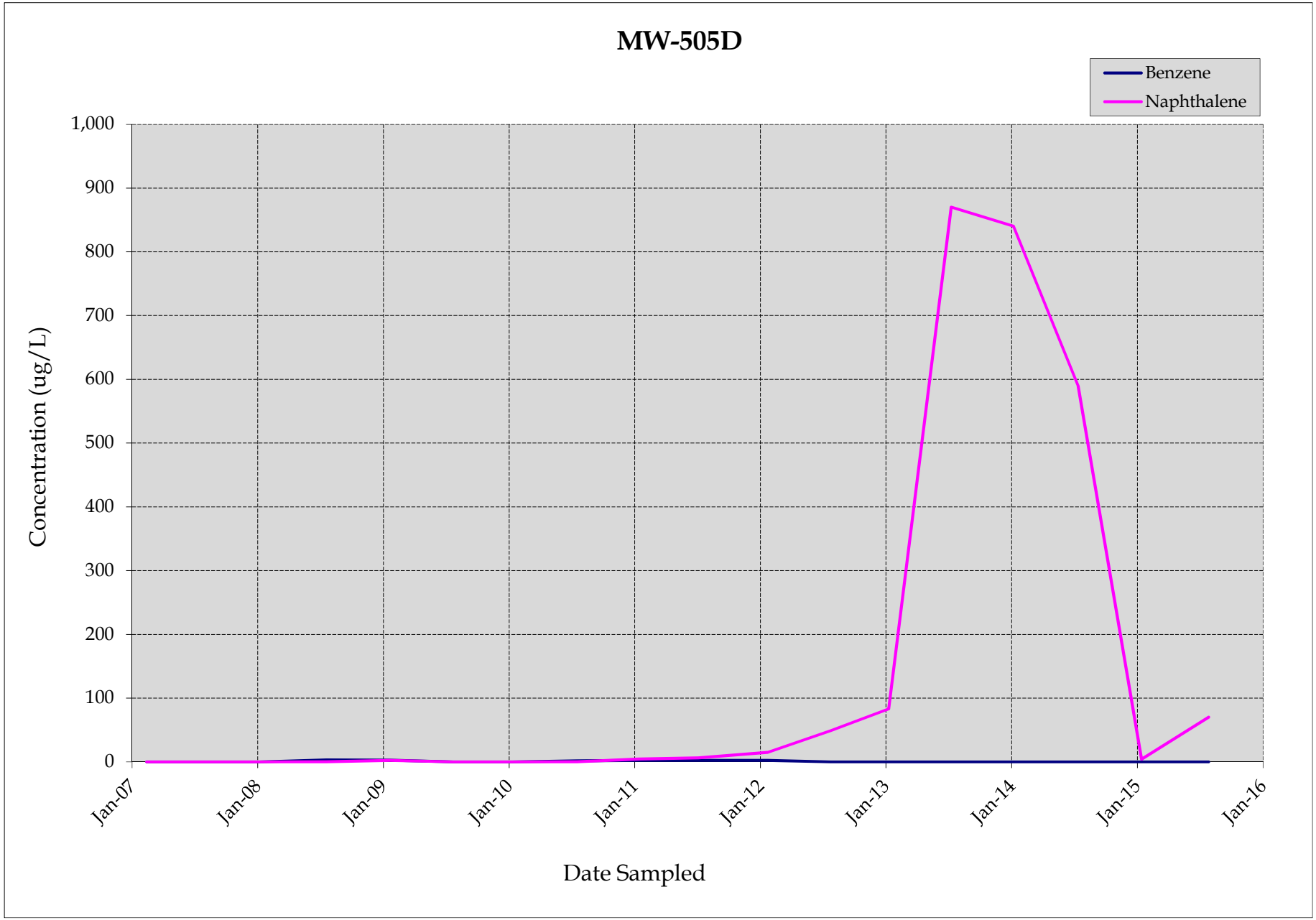

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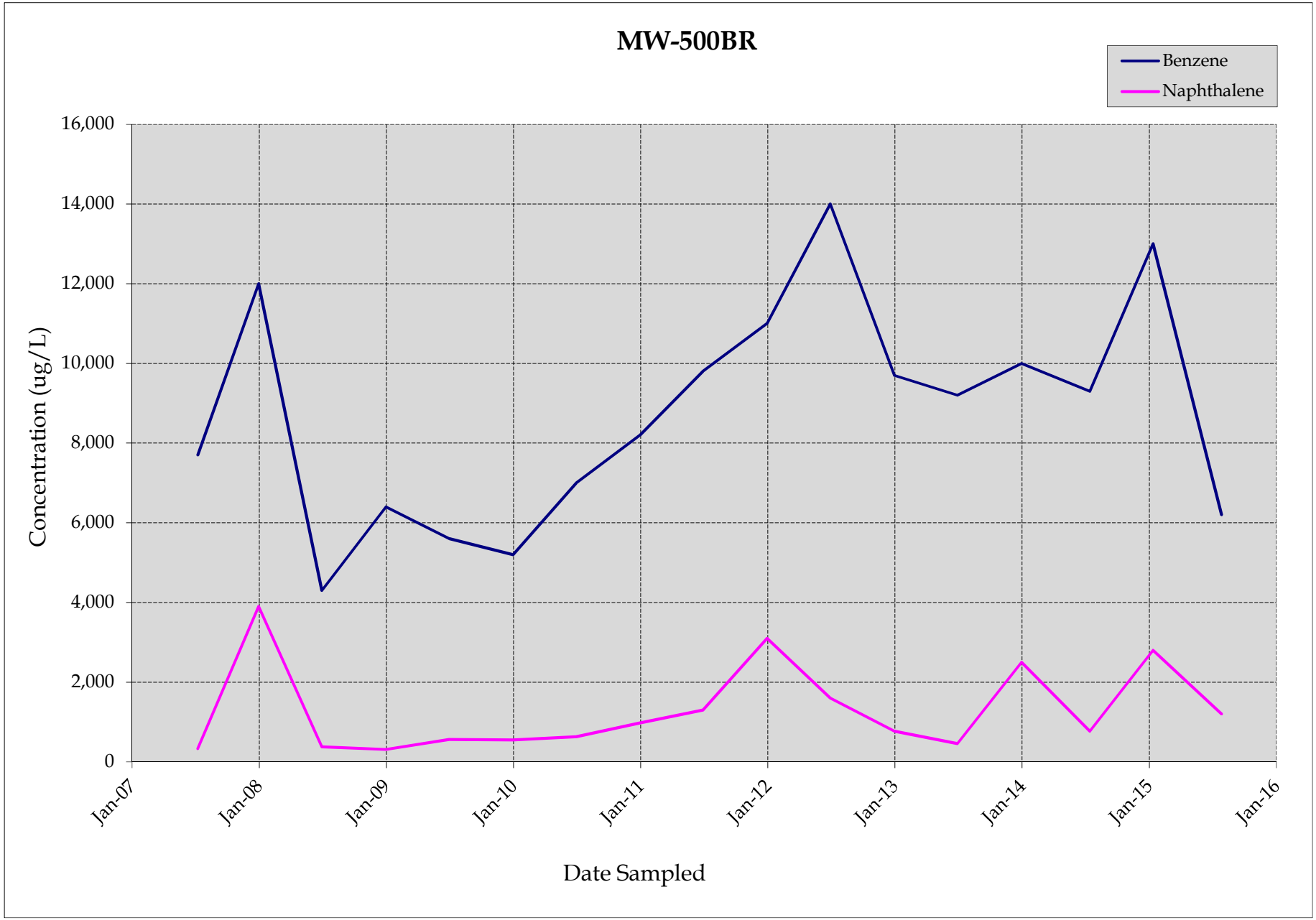

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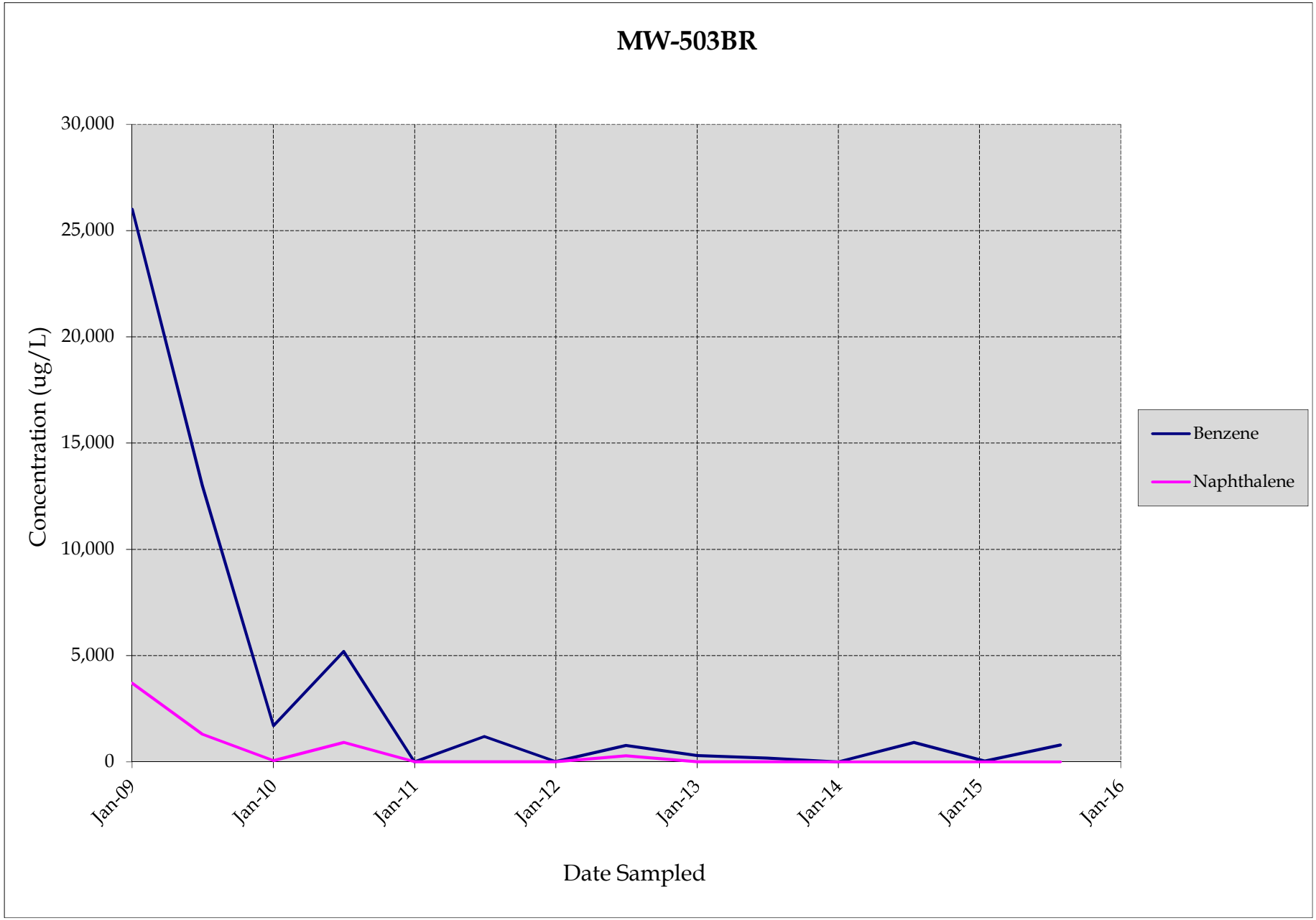

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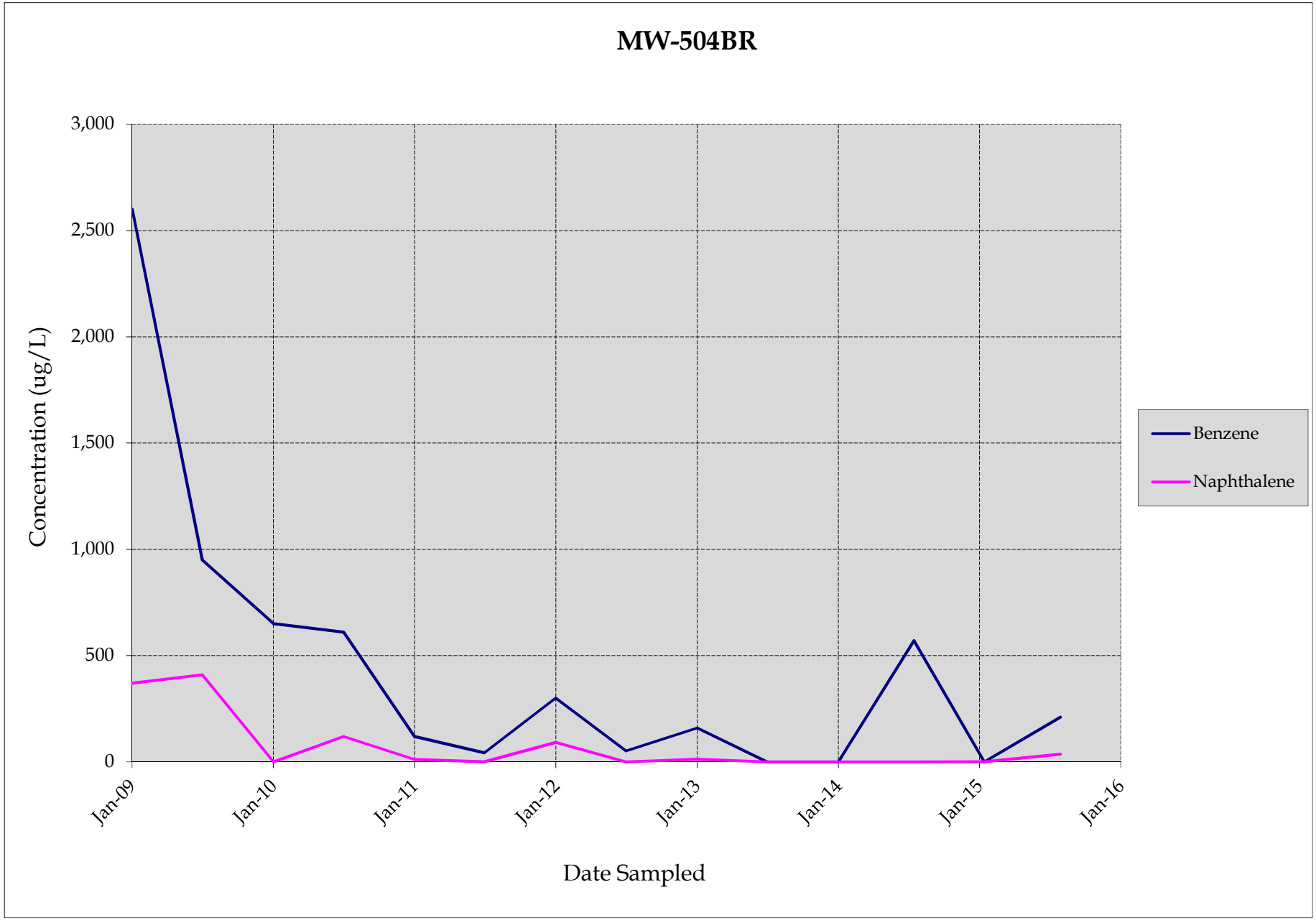

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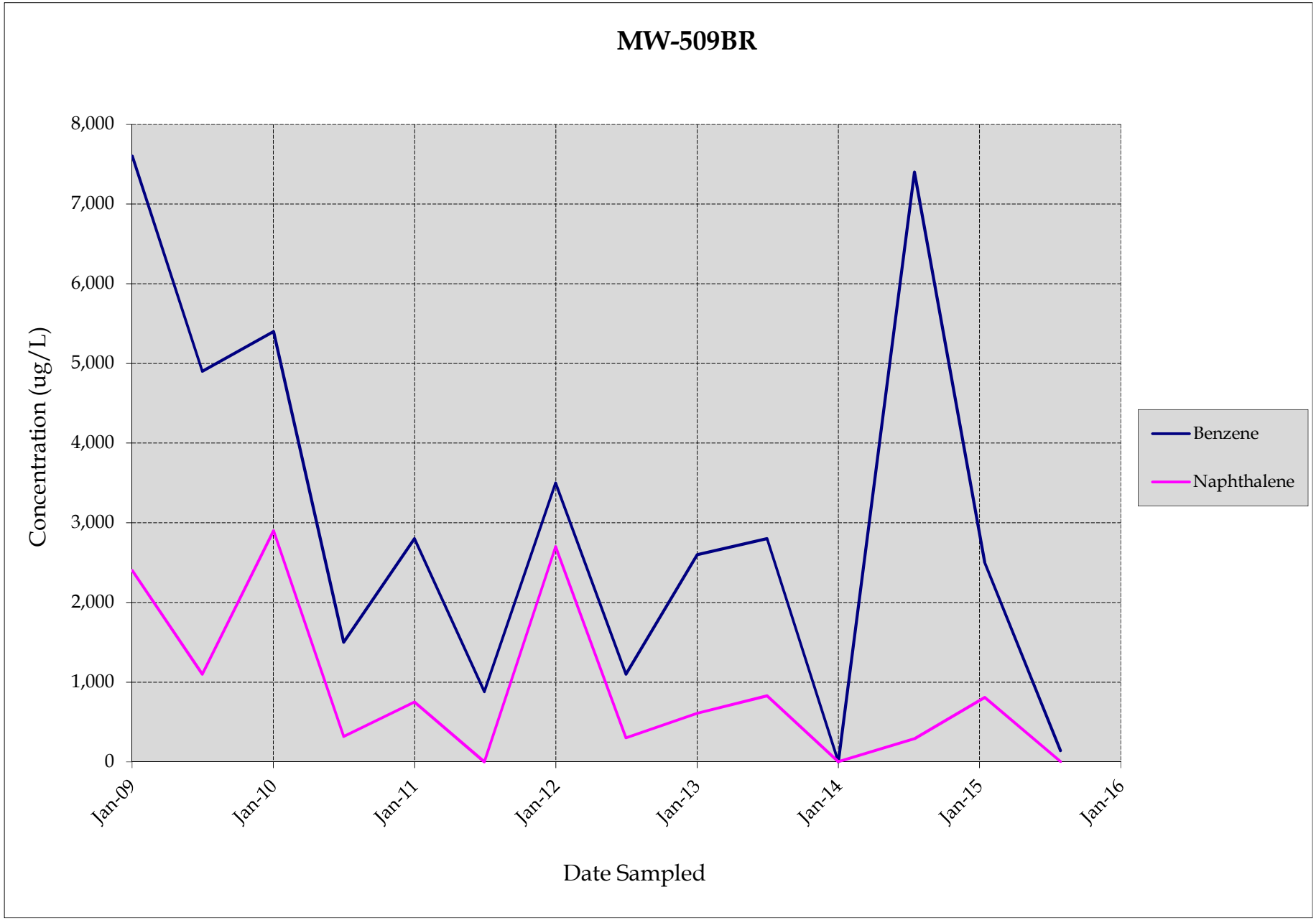

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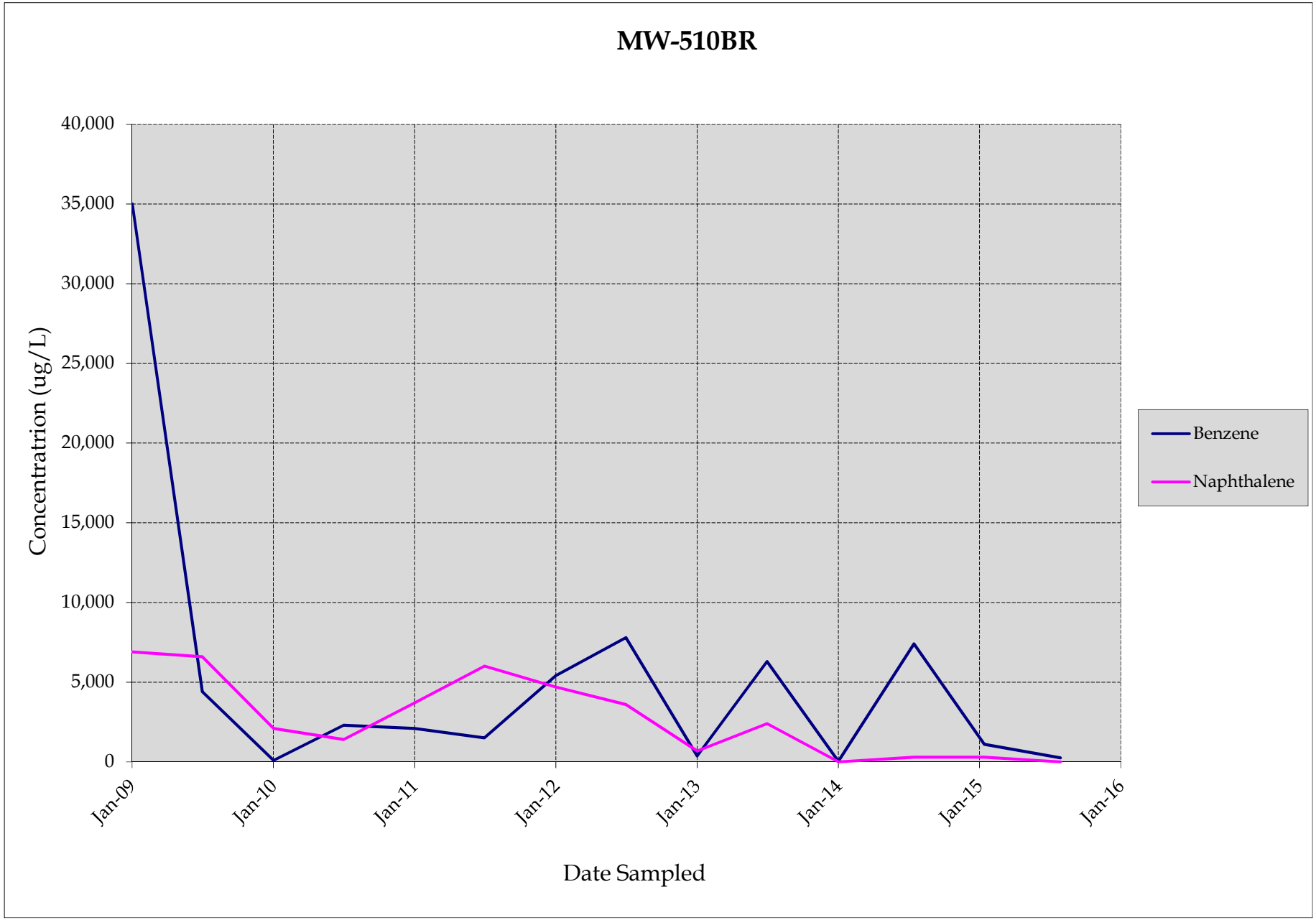

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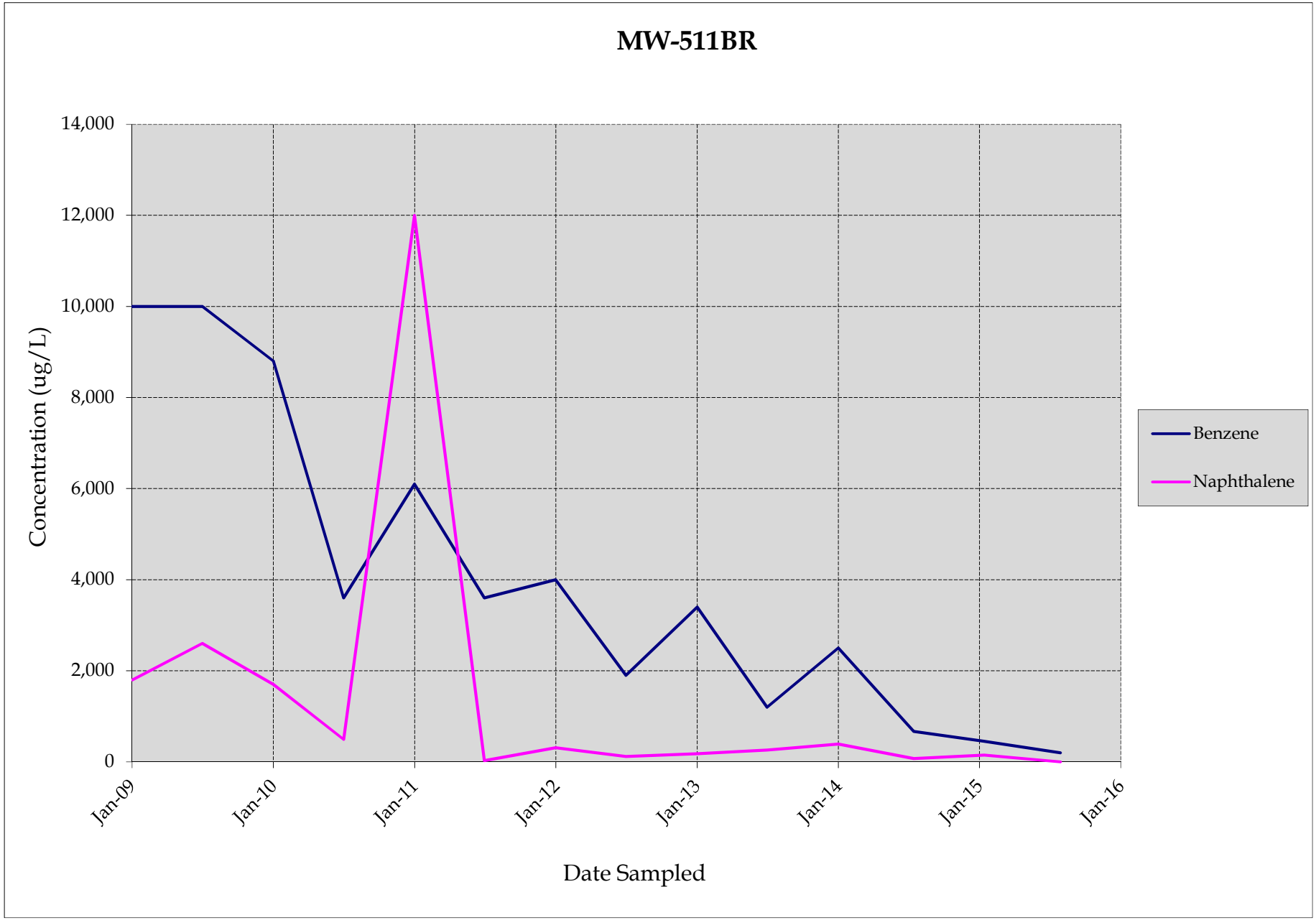

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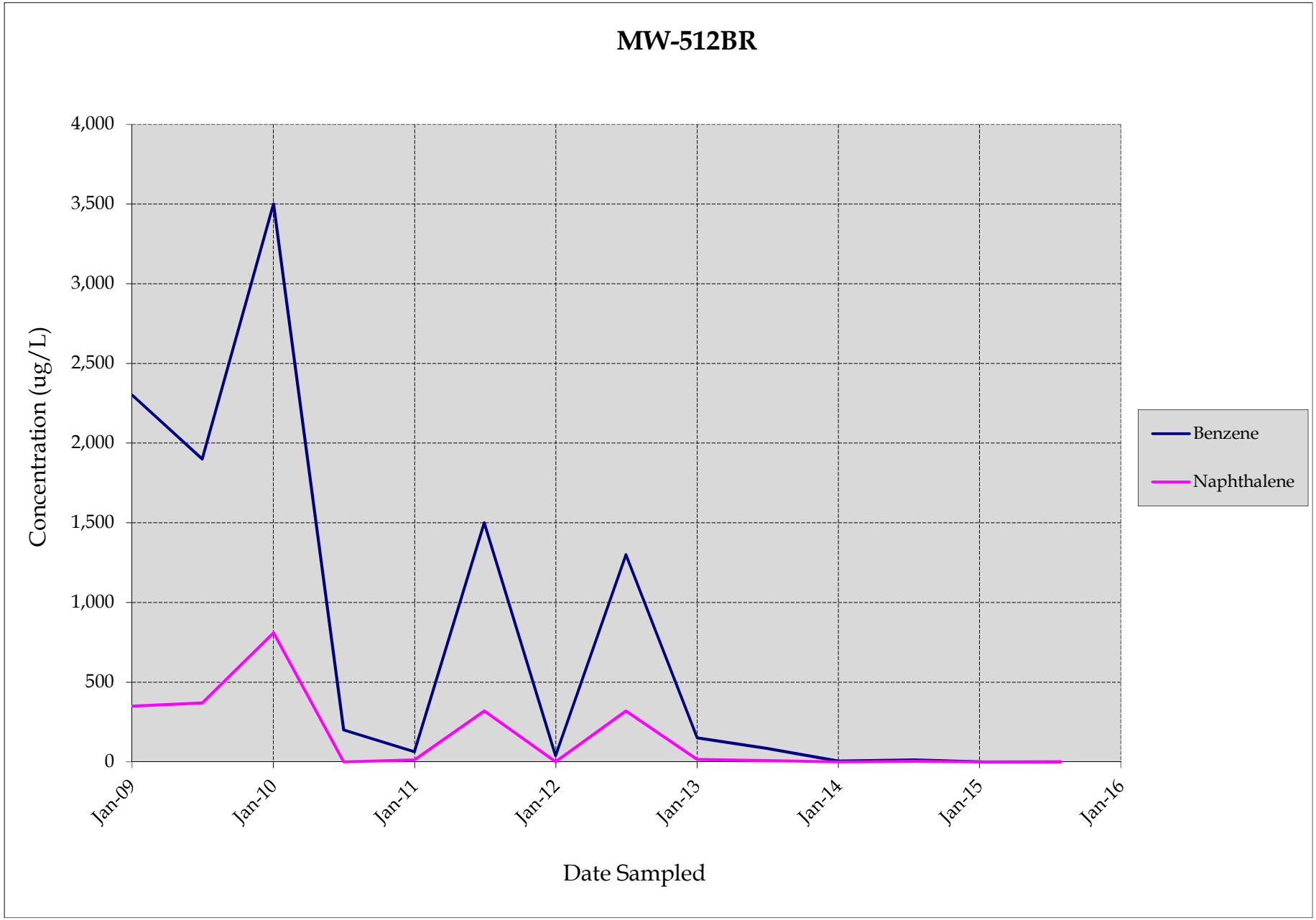

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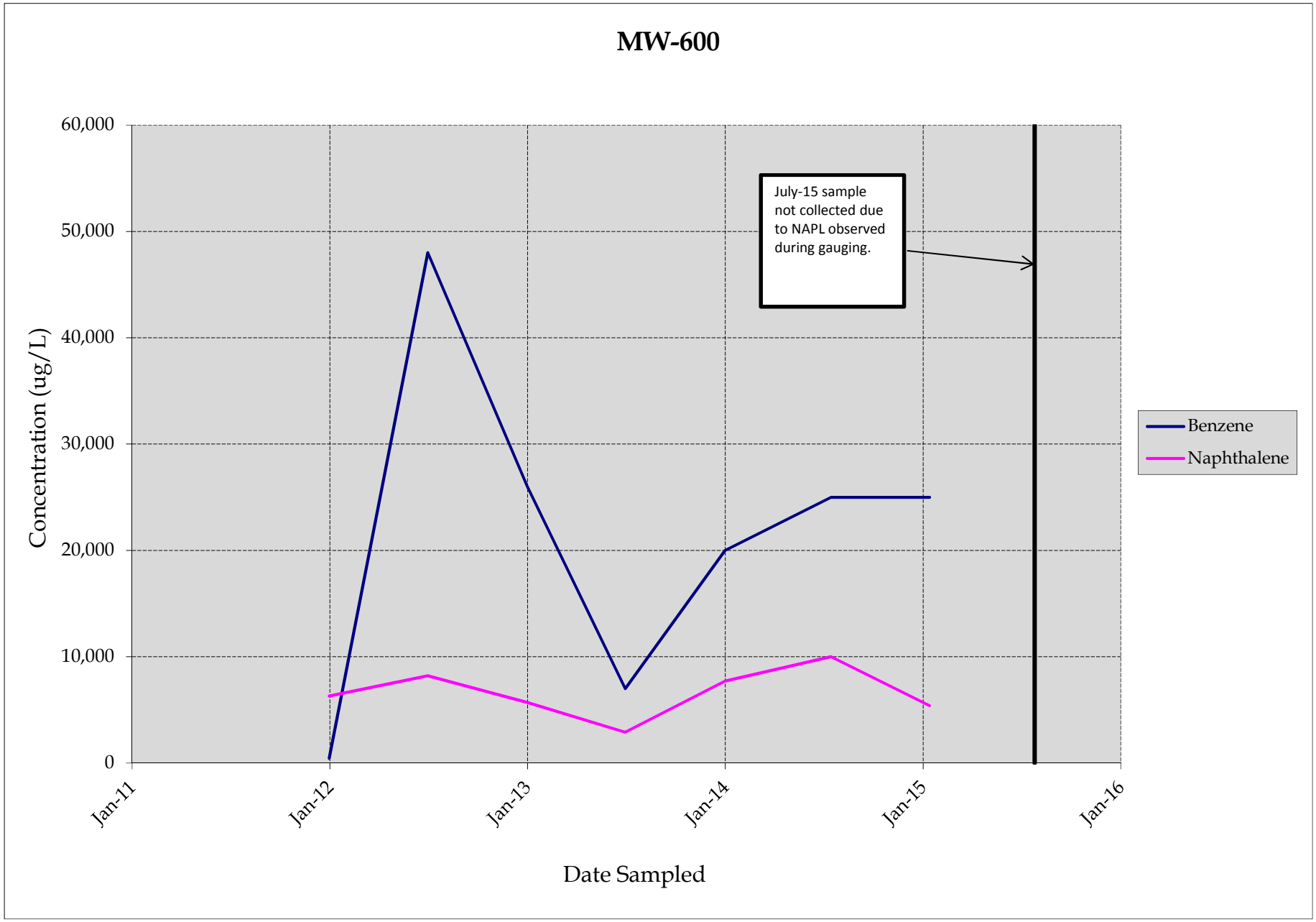

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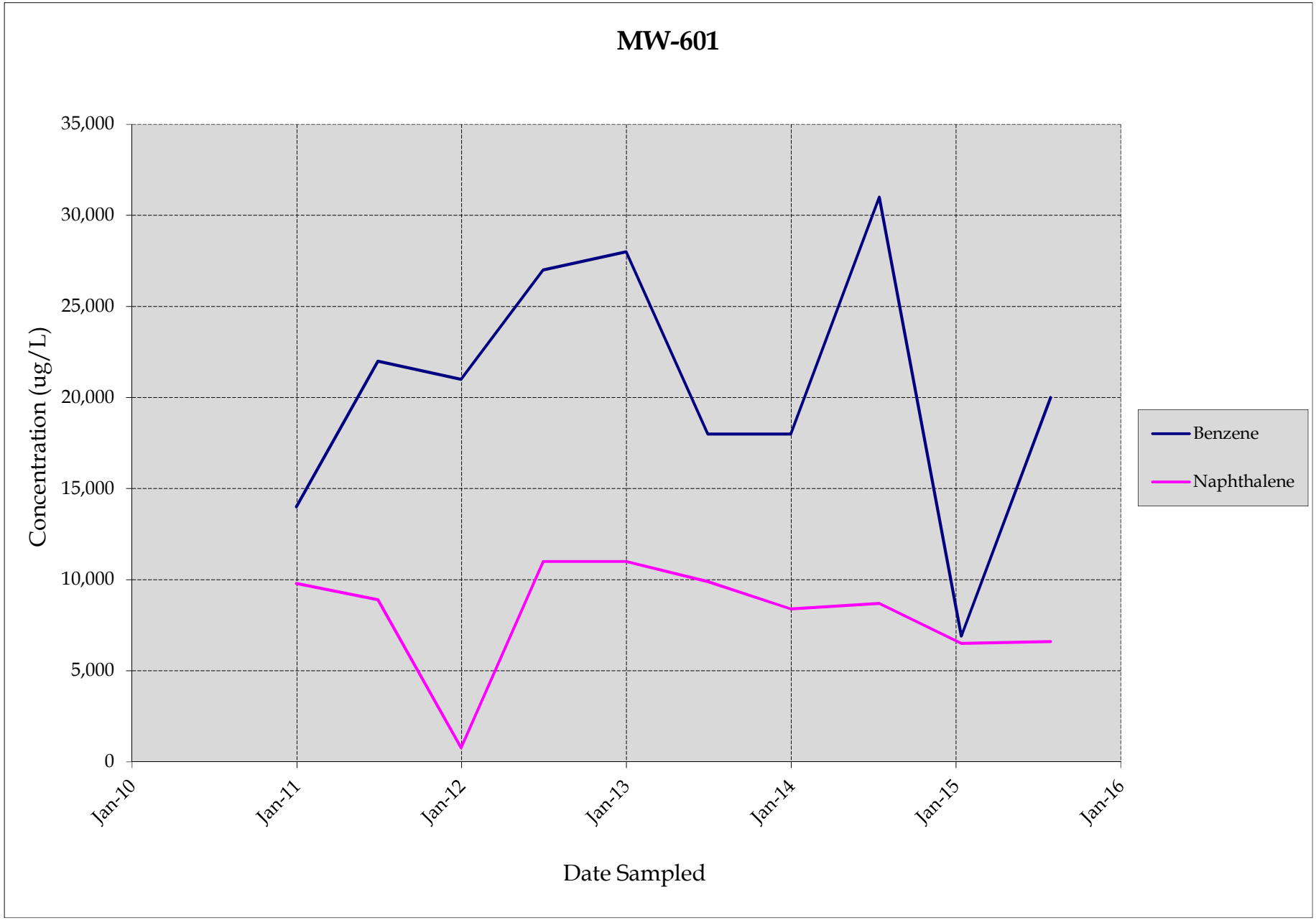

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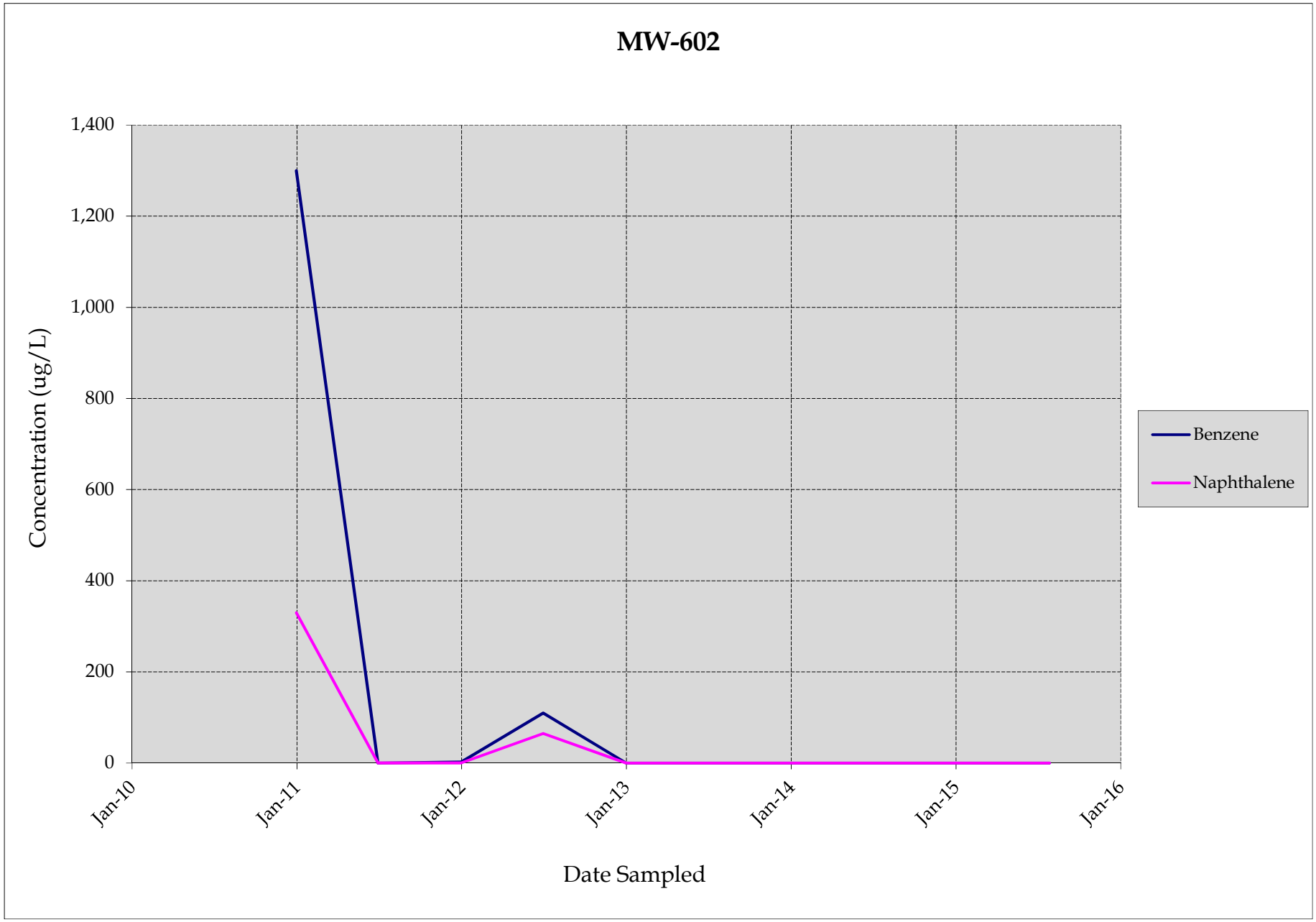

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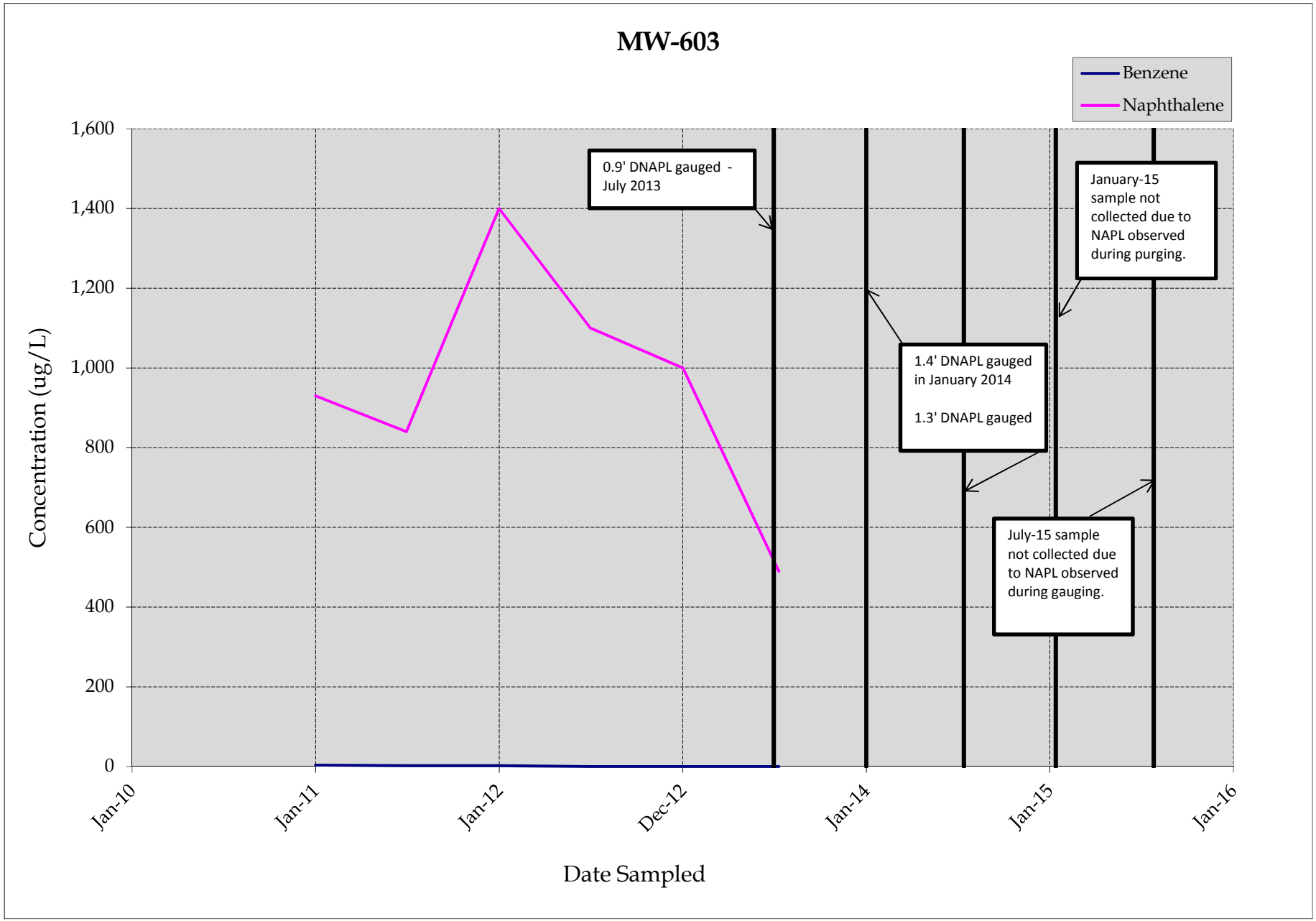

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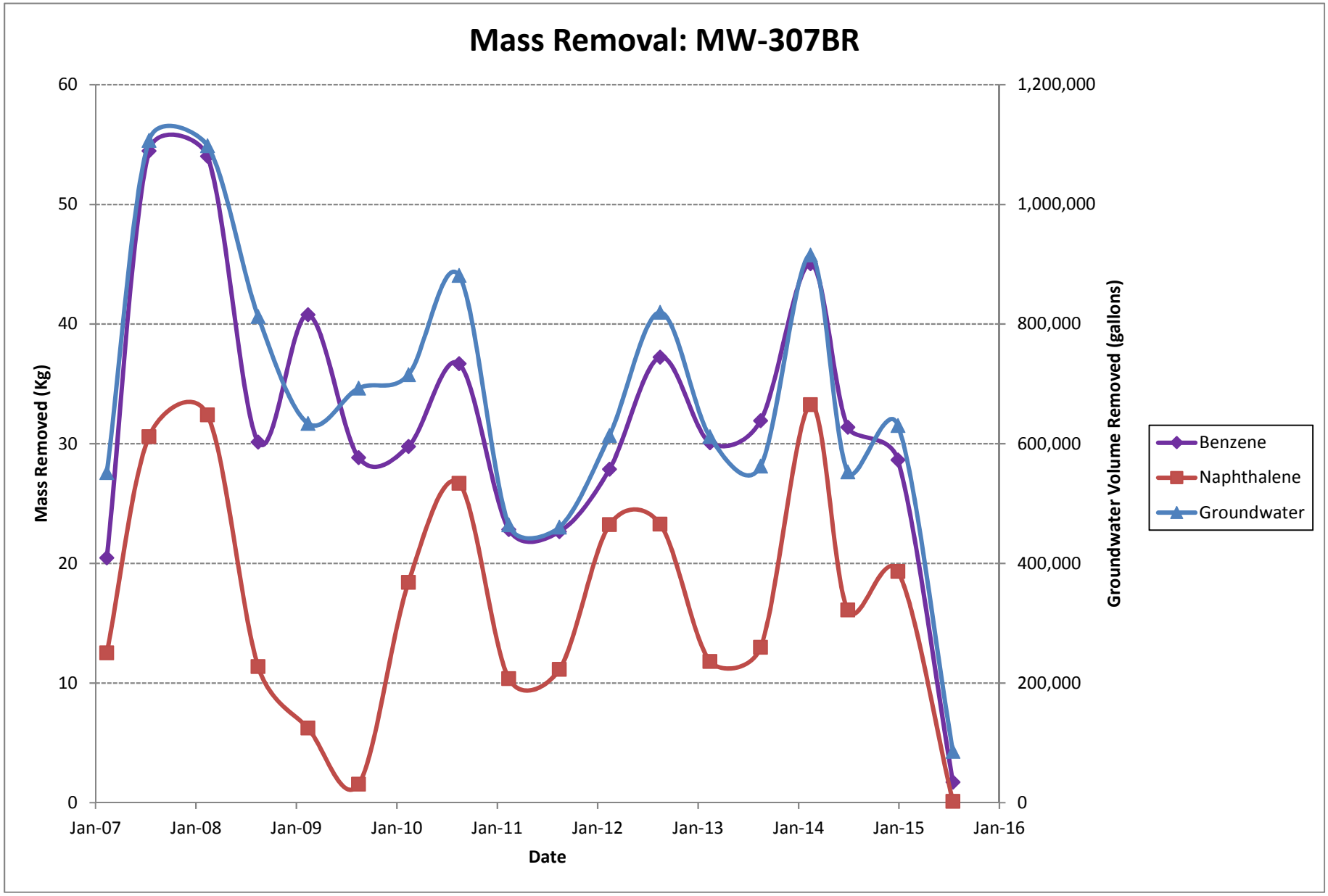
APPENDIX G

MASS REMOVAL TREND GRAPHS



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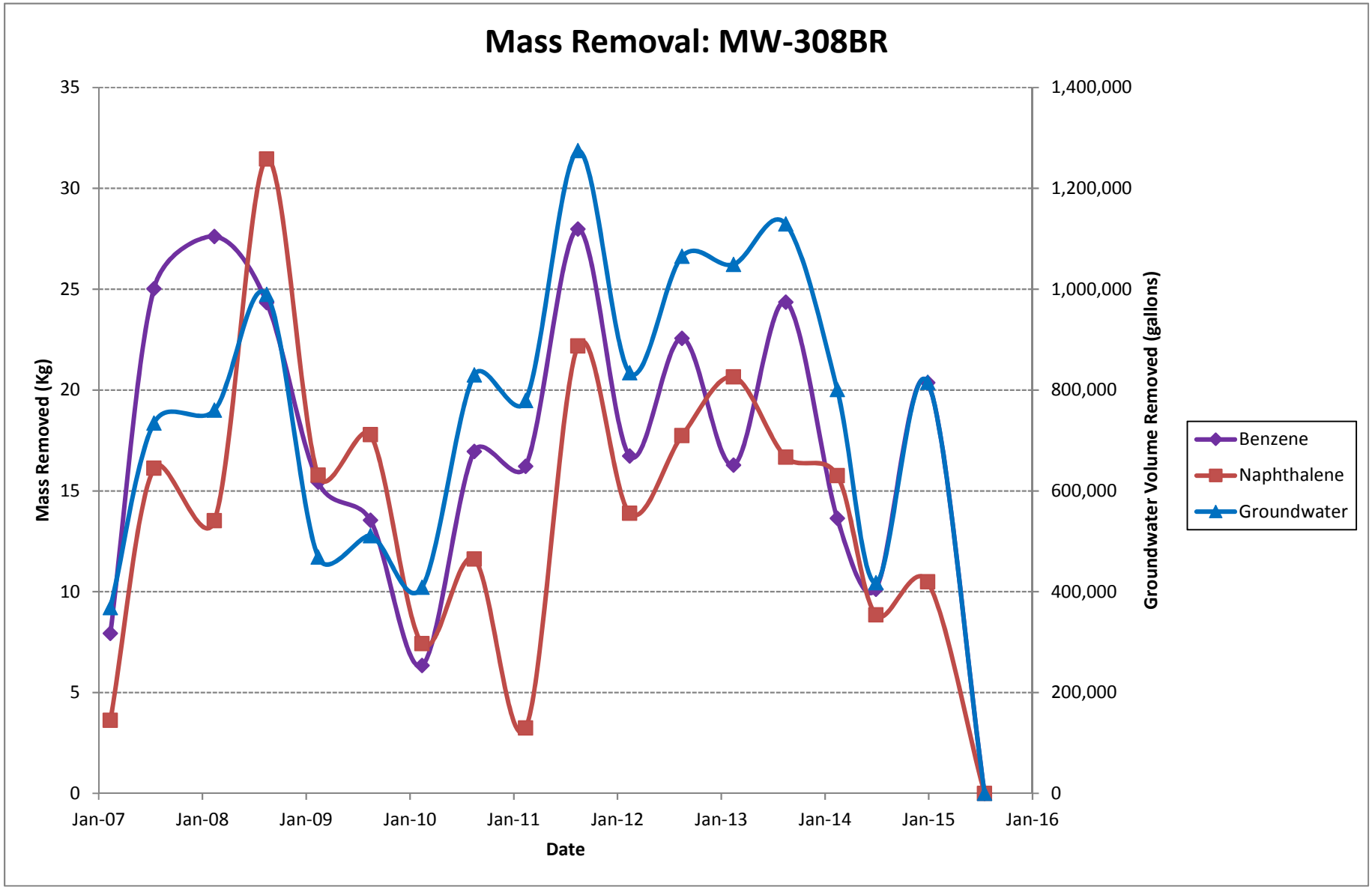

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Checked by and date: SAG 11/24/15

APPENDIX H

CONTINUING ACTION MONITORING PLAN INSPECTION

Photograph: *1*	***North Parcel facing north-northwest***

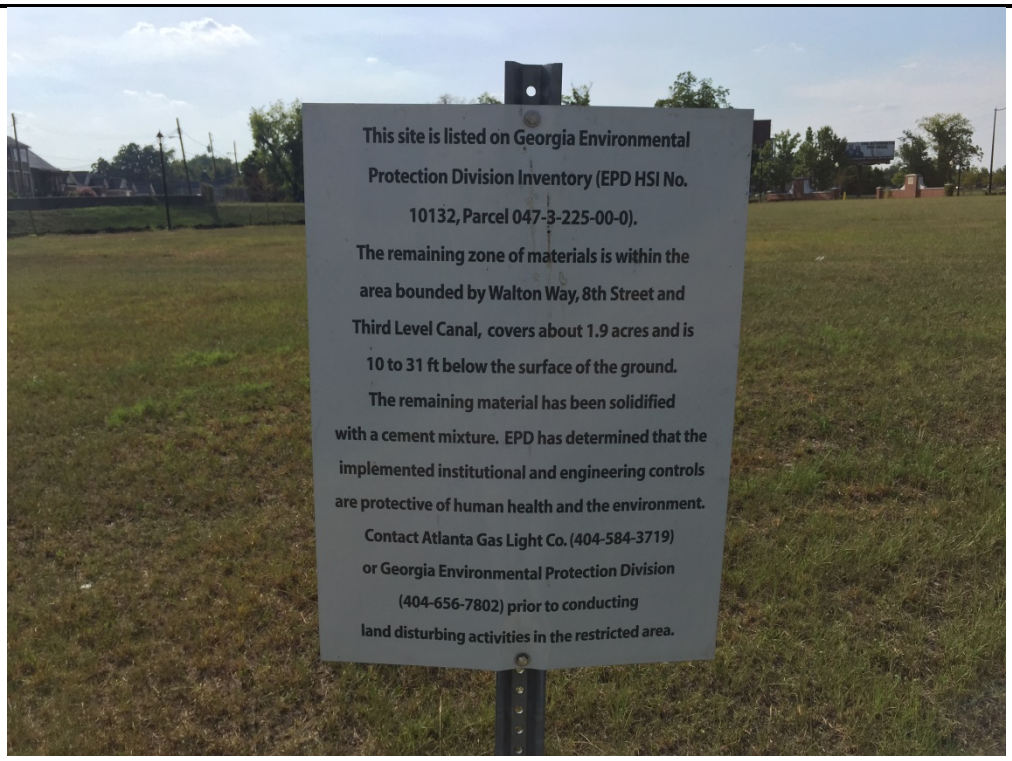
Atlanta Gas Light Company *July 2015 CAMP Report*	ERM	*Former MGP Site* *Augusta, Georgia*

Photograph: *2*	***North Parcel + Reach E South of canal facing north-northwest***

Atlanta Gas Light Company *July 2015 CAMP Report*	ERM	*Former MGP Site* *Augusta, Georgia*

Photograph: *3*	***8th Street between Taylor St. and Walton Way facing north***

Atlanta Gas Light Company *July 2015 CAMP Report*	ERM	*Former MGP Site* *Augusta, Georgia*



Photograph: *4*	***Example of permanent signage on Northern Parcel and Carwash Property***

Atlanta Gas Light Company *July 2015 CAMP Report*	ERM	*Former MGP Site* *Augusta, Georgia*

Photograph: *5*	***ROW north of Taylor St. south of Block E facing east***

Atlanta Gas Light Company *July 2015 CAMP Report*	ERM	*Former MGP Site* *Augusta, Georgia*

Photograph: *6*	***ROW south of Taylor St. north of South Parcel facing east***

Atlanta Gas Light Company *July 2015 CAMP Report*	ERM	*Former MGP Site* *Augusta, Georgia*

Photograph: *7*	***Parcel 362 facing east***

Atlanta Gas Light Company *July 2015 CAMP Report*	ERM	*Former MGP Site* *Augusta, Georgia*

Photograph: *8*	***Parcel 340 and 341 facing west***

Atlanta Gas Light Company *July 2015 CAMP Report*	ERM	*Former MGP Site* *Augusta, Georgia*

Photograph: *9*	***King Street south of Taylor Street facing south***

Atlanta Gas Light Company *July 2015 CAMP Report*	ERM	*Former MGP Site* *Augusta, Georgia*

Photograph: *10*	***Walton Way west of intersection with 8th Street facing west***

Atlanta Gas Light Company *July 2015 CAMP Report*	ERM	*Former MGP Site* *Augusta, Georgia*

Photograph: *11* | ***Carwash Property facing west***

Atlanta Gas Light Company *July 2015 CAMP Report*	ERM	*Former MGP Site* *Augusta, Georgia*

Photograph: *12* | ***Parcel 764 facing northwest***

Atlanta Gas Light Company *July 2015 CAMP Report*	ERM	*Former MGP Site* *Augusta, Georgia*

Photograph: *13*	***Permanent sign for underground electrical vault in intersection of 9th & Fenwick Street***

Atlanta Gas Light Company *July 2015 CAMP Report*	ERM	*Former MGP Site* *Augusta, Georgia*

Photograph: *14*	***Underground electrical vault in intersection of 9th & Fenwick Street***

Atlanta Gas Light Company *July 2015 CAMP Report*	ERM	*Former MGP Site* *Augusta, Georgia*

Photograph: *15*	***Fenwick Street facing east toward intersection with 8th Street***

Atlanta Gas Light Company *July 2015 CAMP Report*	ERM	*Former MGP Site* *Augusta, Georgia*

Photograph: *16*	***8th Street facing south away from intersection with Fenwick Street***

Atlanta Gas Light Company *July 2015 CAMP Report*	ERM	*Former MGP Site* *Augusta, Georgia*

Photograph: *17*	***Intersection of 8th and Fenwick Street***

Atlanta Gas Light Company *July 2015 CAMP Report*	ERM	*Former MGP Site* *Augusta, Georgia*

Photograph: *18*	***CSX Area facing southeast***

Atlanta Gas Light Company *July 2015 CAMP Report*	ERM	*Former MGP Site* *Augusta, Georgia*

Photograph: *19*	***Parcel 98 (Teresa's Warehouse) facing south***

Atlanta Gas Light Company *July 2015 CAMP Report*	ERM	*Former MGP Site* *Augusta, Georgia*

Photograph: *20*	***Parcel 53.1 (Joe Thompson Parking) facing east***

Atlanta Gas Light Company *July 2015 CAMP Report*	ERM	*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			Good Condition
Vegetative Cover (Condition)	X			Good cover- no erosion noted
Functionally Equivalent Controls In-Place	X			
Other				

Monitoring Performed By: Will Virgo Date: July 27, 2015

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			Good cover- no erosion noted
Functionally Equivalent Controls In-Place	X			
Other	X			

Monitoring Performed By: Will Virgo Date: July 27, 2015

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			Good Cover
Vegetative Cover (Condition)	X			Good cover- no erosion noted
Functionally Equivalent Controls In-Place	X			
Other				

Monitoring Performed By: Will Virgo Date: July 27, 2015

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: Will Virgo Date: July 27, 2015

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: Will Virgo Date: July 27, 2015

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: Will Virgo Date: July 27, 2015

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: Will Virgo Date: July 27, 2015

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: Will Virgo Date: July 27, 2015

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			Needs reseeding near sidewalk
Other	X			New trees planted along canal

Monitoring Performed By: Will Virgo Date: July 27, 2015

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		X		Vault lid needs to be replaced on MW-408S and MW-408DR

Monitoring Performed By: Will Virgo Date: July 27, 2015

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: Will Virgo Date: July 27, 2015

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: Will Virgo Date: July 27, 2015

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: Will Virgo Date: July 27, 2015

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: Will Virgo Date: July 27, 2015

Notes:
1 - NA - no action needed, MN- maintenance needed, IA - immediate action needed

Water Usage Survey

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

Prepared for:	Atlanta Gas Light Company Ten Peachtree Pl NE, 17th Floor, Atlanta, Georgia 30309
Date:	November 15, 2015
Prepared by:	Amec Foster Wheeler Environment & Infrastructure, Inc. 1075 Big Shanty Road NW, Suite 100, Kennesaw, Georgia 30144
Project No.:	6122140098

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LIST OF FIGURES

Figure 1 Aerial Imagery

1.0 INTRODUCTION

A water usage survey has been completed by Amec Foster Wheeler on behalf of Atlanta Gas Light Company for the Former Manufactured Gas Plant property located at 807 Walton Way in Augusta, Richmond County, Georgia. The survey consisted primarily of a review of readily available local, state and federal information regarding drinking water wells and drinking water intakes for the area lying within one mile of the subject site, a driving reconnaissance, and interviews with personnel at local water departments and other knowledgeable persons.

2.0 BACKGROUND

The subject site is located within the boundaries of the Urban Services District. The Urban Services District is defined by the Augusta-Richmond County Code as "that area of Richmond County coterminous with the corporate limits of the former City of Augusta as said corporate limits existed as of December 31, 1995." According to the Augusta-Richmond County Code Section 3-7-43, it is unlawful to dig, operate, or maintain any well for the purposes of producing water except those wells which are recommended to be permitted by the commissioner of public works and approved by the Commission. The wells are to be for the exclusive use of providing water form medical or municipal purposes and are subject to approval of the Richmond County Health Department.

During environmental investigations, dissolved phase impacts to groundwater were identified in multiple locations on the subject property. In support of the development of proposed institutional controls to be implemented at the subject site, Amec Foster Wheeler was engaged to perform a survey of drinking water wells and surface water intakes which might be present within one mile of the site.

3.0 WATER USAGE SURVEY

The findings of the water usage survey are detailed in the following sections. Amec Foster Wheeler considered the one mile distance to extend in all directions from the edges of an area which was delineated to encompass the maximum extent of the dissolved phase impact plumes identified on the subject site as shown on **Figure 1**. Note that the one-mile radius is within the Urban Services District (i.e. city limits).

The Savannah River is located approximately 4,000 feet north-northeast of the subject site. The river forms the boundary between Georgia and South Carolina and is considered a hydrogeologic barrier. Therefore, drinking water sources in South Carolina were not researched.

3.1 INFORMATION SOURCES

Amec Foster Wheeler initially assessed the potential presence of drinking water sources in the site area by a review of publicly available information sources listed below:

- U.S. Geological Survey Groundwater Site Inventory System (GWSI) search data;
- The Hydrogeology of the Coastal Plain Strata of Richmond and Northern Burke Counties, Georgia, Georgia Department of Natural Resources (DNR) Environmental Protection Division (EPD) Georgia Geologic Survey (GGS), Information Circular 61;

- Georgia EPD Hazardous Site Inventory/Hazardous Site Response Act (HSI/HSRA) file review;
- City of Augusta Georgia Utilities Department; and
- Report of Groundwater Usage Survey, MACTEC Engineering and Consulting, Inc., dated May 5, 2009.

Amec Foster Wheeler also attempted to physically locate wells noted in previous reports and public records within one mile of the subject property by performing a vehicular reconnaissance (windshield survey) of the area. We also attempted to visually identify any evidence of private wells (i.e. wellheads, pump houses) while performing the area reconnaissance.

3.2 PREVIOUS REPORTS

The 2009 report identified one irrigation well within one mile of the subject site. This well, located approximately 0.6 miles north-northwest of the subject site, was originally used for cooling of machinery in a textile mill. The textile mill was reportedly destroyed by fire in the late 1970s or early 1980s. The property was redeveloped as garden areas for the Georgia Golf Hall of Fame and the well was utilized for irrigation of the butterfly garden areas from approximately 2001 to 2004. In 2007, the gardens were closed. The property appeared to be overgrown and abandoned during the time of our recent area reconnaissance.

3.3 PUBLIC INFORMATION

The public records review identified one groundwater well within one mile of the subject property. This well is the same as described in the 2009 report. No surface water intakes were identified within the search distance.

Amec Foster Wheeler contacted the City of Augusta Utilities to obtain additional information regarding possible well locations in the site area. Ms. Michelle Brice of the City of Augusta Utilities Department indicated that to her knowledge there are no properties within the city limits that utilize wells for drinking water.

According to the City of Augusta Utilities Department website (Augusta Water, 2015), the City obtains its water from both surface and groundwater sources, and all water intake stations are located outside the one-mile radius.

3.4 GENERAL AREA RECONNAISSANCE

On September 2, 2015, a general reconnaissance of the area within a one-mile radius of the subject property boundaries was performed. The reconnaissance involved visual observations from public roadways. No potential water supply wells were identified during the area reconnaissance. Municipal water meters were observed at residences and commercial structures in the survey area.

4.0 CONCLUSIONS

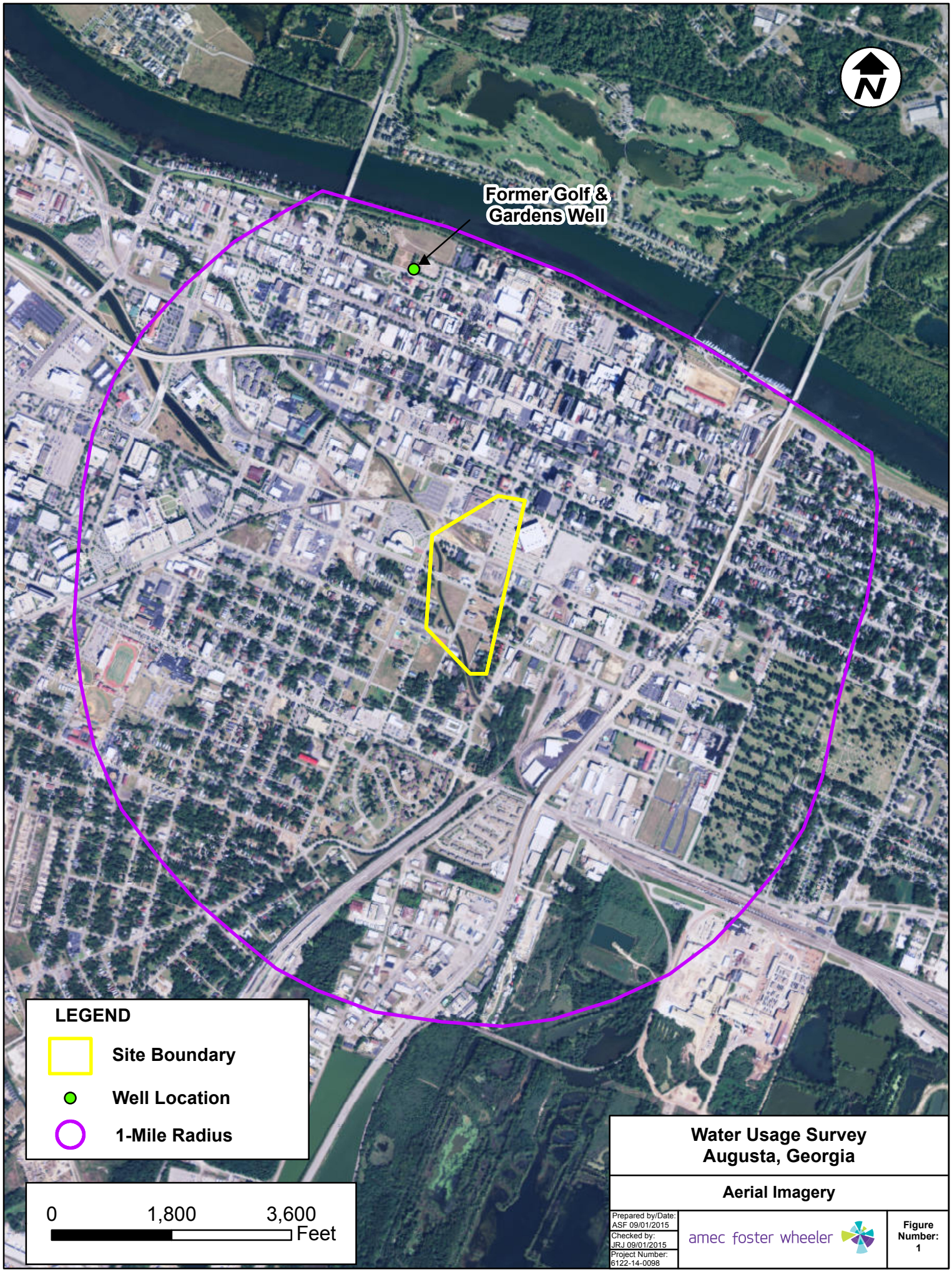
Based on the data obtained during the water usage survey, Amec Foster Wheeler offers the following conclusions:

- The records review and general area reconnaissance search identified no active wells or surface water intakes used for drinking water in Georgia within a one mile radius of the subject site.
- The properties surrounding the subject site are supplied with municipal water.

5.0 REFERENCES

Augusta Water - Commitment. City of Augusta Utilities Department. http://www.augustaga.gov/1104/Augusta-Water Accessed November 12, 2015.

FIGURE



Water Usage Survey
Augusta, Georgia

Aerial Imagery

Prepared by/Date: ASF 09/01/2015	amec foster wheeler	Figure Number: 1
Checked by: JRJ 09/01/2015		
Project Number: 6122-14-0098		

Document Path: P:\ENV\6122140098_AGL_Augusta_Air_2015\GIS\Aerial_Augusta.mxd

Georgia Power Well Abandonment Report

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

Prepared for:	Atlanta Gas Light Company Ten Peachtree Pl NE, 17th Floor, Atlanta, Georgia 30309
Date:	September 11, 2015
Prepared by:	Amec Foster Wheeler Environment & Infrastructure, Inc. 1075 Big Shanty Road NW, Suite 100, Kennesaw, Georgia 30144
Project No.:	6122140098

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Figure 1-3 Wells Abandoned

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Appendix B Well Abandonment Logs

1.0 INTRODUCTION

The former Augusta Manufactured Gas Plant (MGP) is located at the intersection of Walton Way and 8th Street in Augusta, County of Richmond, Georgia (Figure 1-1). Atlanta Gas Light Company (AGLC) owns three parcels of land on which an MGP and ancillary facilities formerly operated, which collectively occupied 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 Report.

Georgia Power Company (GPC) owns property at the intersection of 8th Street and Walton Way as the Fenwick Street Substation, otherwise known as Block D. Under an Access Agreement between AGLC and GPC, seven groundwater wells were installed in a grassy area on GPC property (Figure 1-3). GPC is planning to expand the footprint of the substation to the south, which would affect the groundwater wells on their property (six (6) groundwater monitoring wells and one (1) groundwater recovery well). At the request of Georgia Power and to comply with Fourth Amendment to the GPC Access Agreement, AGLC abandoned wells MW-307, MW-307BR, MW-316, MW-321, MW-322, MW-323, and MW-324 during the week of August 31, 2015.

2.0 WELL ABANDONMENT PROCEDURE

Well abandonment activities were performed in accordance with the most recent version of the *Georgia Water Well Standards Act (O.C.G.A. § 12-5-120 through 138)*, Georgia Geologic Survey Circular 13 (*Grouting and Plugging of Domestic Water Wells in Georgia)* (Georgia Geologic Survey, 1988), and the *USEPA Region 4 SESD Field Branches Quality System and Technical Procedures* in effect when the program is initiated.

Because the wells were reported to have been properly grouted during installation, and the casing integrity was also reported to be intact, six of the wells were abandoned in place. Table 1 lists the general physical descriptions of each well, including the general location, surface completion, well diameter and total depth. Cascade Drilling, L.P. conducted well abandonment activities on August 31st to September 2th 2015. A tremie pipe was placed at the bottom of the well, Holcim Type I/II Portland grout was pumped into the well, and the tremie pipe was retracted slowly as grout filled the well and casing. Pumping continued until undiluted grout was visible at the surface. The multiport well MW-307 had three sample openings ¾-inches in diameter. Due to the small size of the openings this well was overdrilled with a Rotosonic drill rig. The borehole was then tremie grouted with the drill rods. Sufficient time was allowed for the grout to settle, and then the well was completely filled. The grout was then allowed to set overnight, and the casings were topped of as needed.

Water displaced from the wells during tremie grouting was collected in 55-gallon drums. Five of the groundwater drums contained water that was characterized as non-hazardous using analytical results from the January 2015 groundwater sampling event. Appropriate waste disposal manifests were prepared and the non-hazardous drums were picked up and properly disposed of by A&D Environmental. One drum of groundwater from MW-307BR was characterized as hazardous for benzene using the analytical results from the January 2015

groundwater sampling event. Since the drum containing water characterized as hazardous was managed separately from the non-hazardous drums, the hazardous waste drum was properly labeled and locked in the groundwater treatment building to await disposal. The waste manifest for the drum containing hazardous waste was prepared and the drum was properly disposed of by A&D Environmental. Copies of the waste disposal manifests are included in Appendix A.

Abandonment-derived materials, including concrete debris, surface completions, buried pipe, buried conduit, etc., were disposed of as C&D waste at the Three Rivers Solid Waste Authority facility. Following well abandonment activities, the disturbed areas were graded, seeded and mulched.

Abandonment activities were conducted under the direction of an Amec Foster Wheeler professional geologist registered in Georgia. A record for each abandoned well is provided as Appendix B.

TABLES

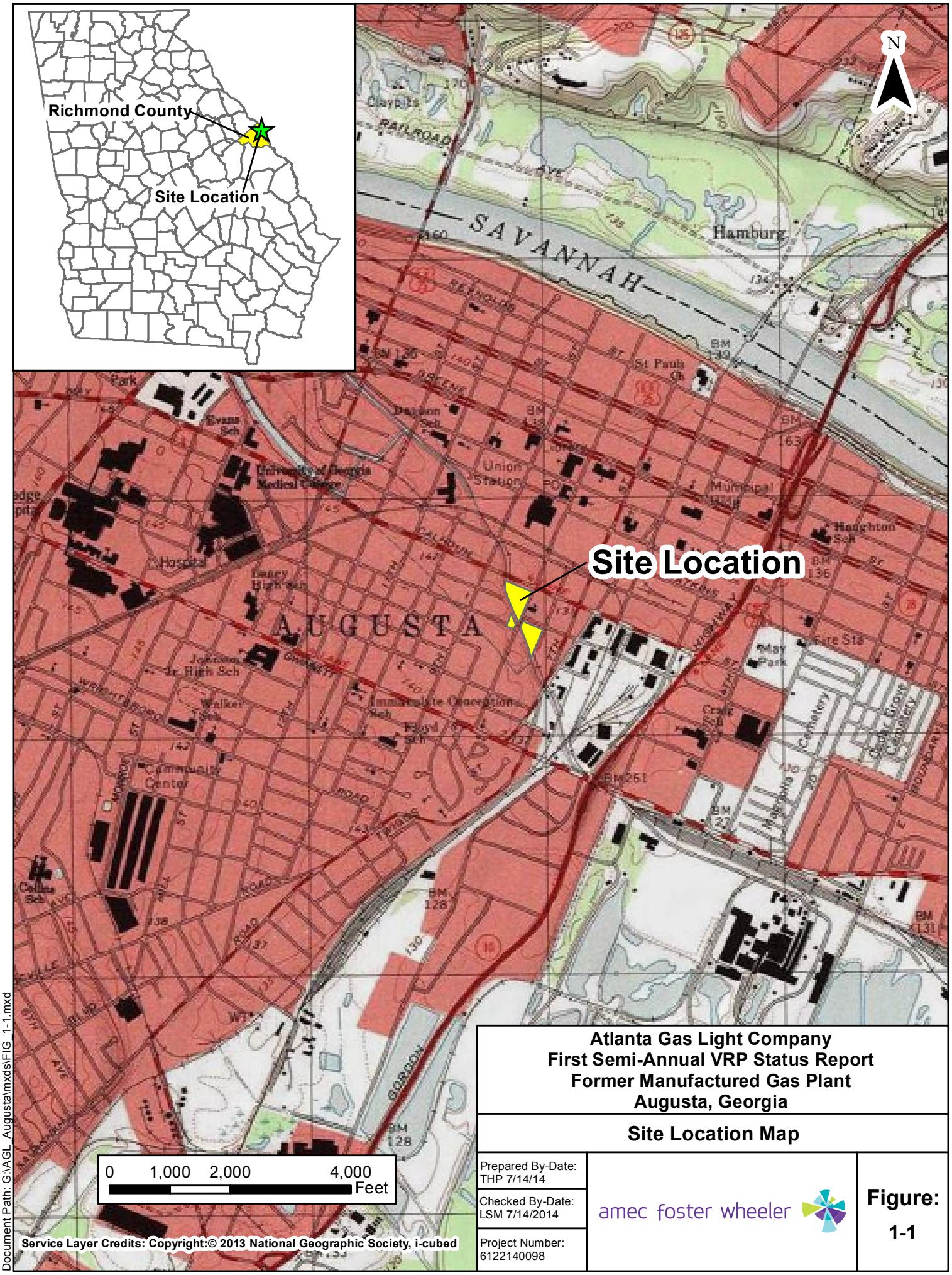
Table 1
Abandoned Wells
Atlanta Gas Light Company
Former Manufactured Gas Plant
Augusta, Georgia

Well ID	General Location	Well Diameter (in)	Surface Completion	Elev (ft)	TOC Elev (ft)	Screen Length (ft)	Total Boring Depth (ft)
MW-307[A]	Block D	4	Flush Mount	1038.892	130.48	Three 1-foot screens	48
MW-307BR	Block D	4	Flush Mount	1035.68	130.27[B]	Open hole 48-73	73
MW-316	Block D	4	Flush Mount	1033.613	130.51	Open hole 88-119.8	119.8
MW-321	Block D	4	Flush Mount	1026.73	130.48	Open hole 160-170.2	170.2
MW-322	Block D	4	Flush Mount	1028.196	130.65	Open hole 49-86	86
MW-323	Block D	4	Flush Mount	1028.344	130.53	Open hole 70.5-95	95
MW-324	Block D	4	Flush Mount	1028.046	130.98	Open hole 209-215	215

Notes:
A: MW-307 was a multiport well with screen openings from 24.5-25.5, 30.5-31.5, and 46.5-47.5.
B: TOC taken from the 2003 RI and was altered when MW-307BR was converted into a recovery well.

Prepared By: JAM 9/10/15
Checked By: DDP 9/11/15

FIGURES



Service Layer Credits: Copyright:© 2013 National Geographic Society, i-cubed

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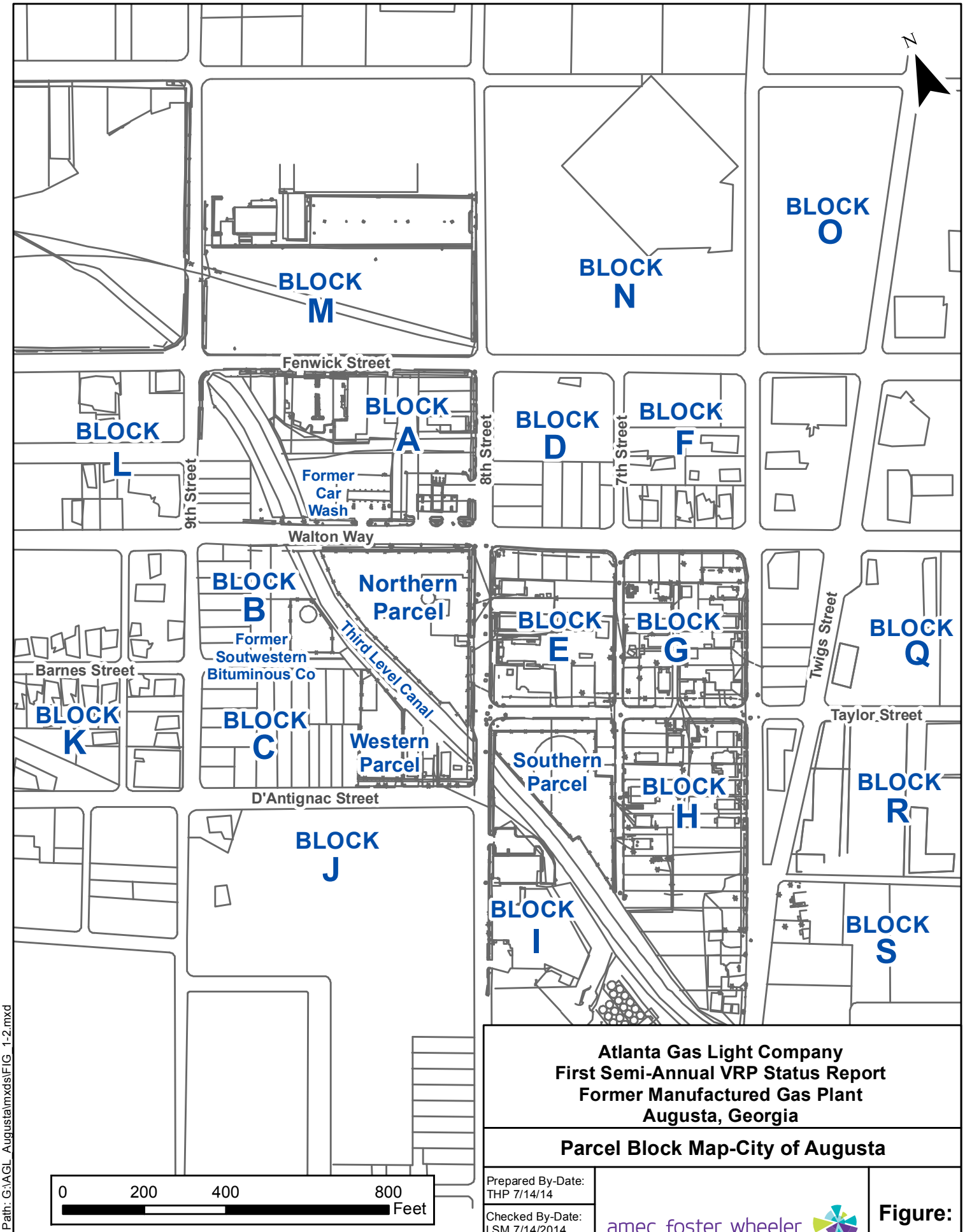
Atlanta Gas Light Company
First Semi-Annual VRP Status Report
Former Manufactured Gas Plant
Augusta, Georgia

Site Location Map

Prepared By-Date: THP 7/14/14	amec foster wheeler	**Figure: 1-1**
Checked By-Date: LSM 7/14/2014		
Project Number: 6122140098		



Source: Environmental Cost Management 2012, Feasibility Study

Document Path: G:\AGL_Augusta\mxds\FIG_1-2.mxd

Atlanta Gas Light Company
First Semi-Annual VRP Status Report
Former Manufactured Gas Plant
Augusta, Georgia

Parcel Block Map-City of Augusta

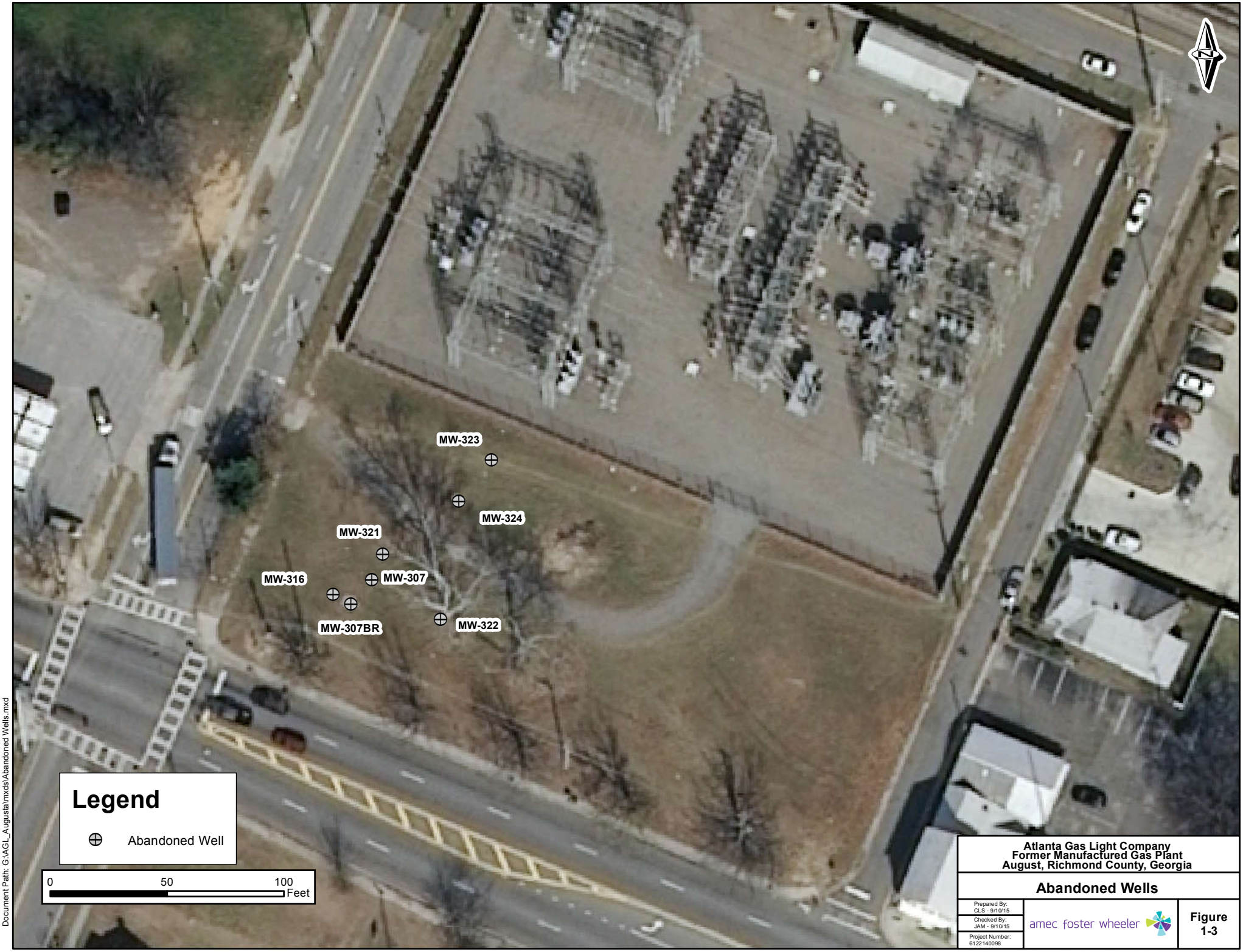
Prepared By-Date: THP 7/14/14

Checked By-Date: LSM 7/14/2014

Project Number: 6122140098

amec foster wheeler

Figure: 1-2



Atlanta Gas Light Company
Former Manufactured Gas Plant
August, Richmond County, Georgia

Abandoned Wells

Prepared By: CLS - 9/10/15
Checked By: JAM - 9/10/15
Project Number: 6122140098

amec foster wheeler

Figure 1-3

Document Path: G:\AGL_Augusta\mxds\Abandoned Wells.mxd

APPENDIX A

Waste Disposal Manifests

Hazardous

186150

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: GAD984306092
2. Page 1 of 1
3. Emergency Response Phone: 800 255 3924
4. Manifest Tracking Number: 007467894 JJK

5. Generator's Name and Mailing Address: Atlanta Gas Light Company, Ten Peachtree Place NE, Atlanta, GA 30309, Attn: Greg Corbett

Generator's Site Address (if different than mailing address): 815 Dontignac Street, Augusta, GA 30901

Generator's Phone:

6. Transporter 1 Company Name: A&D Environmental Services (SC), LLC — U.S. EPA ID Number: SCD987598331

7. Transporter 2 Company Name: A+D Environmental Services (GA), LLC — U.S. EPA ID Number: GAR000007484

8. Designated Facility Name and Site Address: Giant Resource Recovery, 1229 Valley Drive, Attalla, AL 35954 — U.S. EPA ID Number: ALD070513767

Facility's Phone: 256 538 3800

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3082, Hazardous Waste Liquid, n.o.s. (Benzene) 9, PG III, ERG #171 #63032	001	DM	55	G	D018
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

Emergency Response Information Provider
Contact Chemtel: 800-255-3924
Contract Number MB0007951

1. Benzene contaminated water; 1x55: Approval #63032

15. **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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Russell K. Fraze — Signature: On behalf of Atlanta Gas Light Company — Month 10 Day 21 Year 15

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Tony Amours — Signature — Month 10 Day 21 Year 15

Transporter 2 Printed/Typed Name: Marc Ruiz — Signature — Month 10 Day 22 Year 15

18. Discrepancy

18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H061 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Brandi Randolph — Signature — Month 11 Day 10 Year 15

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Non-Hazardous

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: GAD984306092

2. Page 1 of 1

3. Emergency Response Phone: 800-255-3924

4. Waste Tracking Number: 16185

5. Generator's Name and Mailing Address: Atlanta Gas Light Company, 815 Dantignac Street, Augusta, GA 30901

Generator's Site Address (if different than mailing address):

Generator's Phone:

6. Transporter 1 Company Name: A&D Environmental Services (SC), LLC — U.S. EPA ID Number: SCD987598331

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: A&D Environmental Services (GA), LLC, 100 Waste Research Drive, Macon, GA 31206 — U.S. EPA ID Number: GAR000007484

Facility's Phone: 478-788-8899

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non-Regulated Material, Liquid (Water) Approval #	005	DM	275	G
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

Job #15-0618

#102026

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: Russell K Frame — Signature: On behalf of Atlanta Gas Light Company — Month 09 Day 03 Year 15

15. International Shipments: ☐ Import to U.S. ☐ Export from U.S. — Port of entry/exit: Atlanta Gas Light Company

Transporter Signature (for exports only): — Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Randell Rutland — Signature: — Month 9 Day 3 Year 15

Transporter 2 Printed/Typed Name: Greg Howard — Signature: — Month 9 Day 24 Year 15

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: Leighana Spires — Signature: Leighana Spires — Month 9 Day 25 Year 15

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

169-BLC-O 6 10498 (Rev. 9/09) DESIGNATED FACILITY TO GENERATOR

APPENDIX B

Well Abandonment Logs

amec foster wheeler

Well Abandonment Record

WELL NO.:	MW-307
PROJECT NAME:	AGL Augusta
PROJECT NO:	6122140098.10.****
FINISH DATE:	8-31-15

Name of Property Owner:	AGL Services Company
Address of Property:	8th Street and Walton Way. A grassy area on property Georgia Power Company (GPC) utilizes as Fenwick Street Substation, otherwise known as Block D.
Type of Well Installation Method:	Rotasonic
Date of Well Installation:	11/10/1998
Original Purpose of Well Installation:	Groundwater Monitoring
Total Depth of Well (measured from Top of Riser):	48′
Top of Riser Height (above/below ground surface):	-0.45′
Well Diameter (nominal) and Material Type:	Sch. 40 PVC multiport well 4-inches in diameter.
Screen Slot Size and Opening Type:	The three port openings are ¾-inch diameter. Total Depths = 25′, 32′, and 48′
Screen Length and Backfill Material:	Port openings are 1′ long with Foster Dixiana FX-50 filter packs.
Depth to Water/Date (measured from Top of Riser):	7.25′
Screened Formation or Aquifer Type:	Galliard & Bedrock
Description of Well Abandonment Method:	Due to the small diameter of the port openings, the well was overdrilled with a Rotasonic drill rig to 50′, and the borehole grouted to the surface.
Calculated Well Volume ($\pi r^2 L$ x 7.4805):	Appx. 73 gallons
Type and Volume of Materials Used to Plug Well:	70 gallons of Holcim Type I/II Portland cement
Riser and/or Screen Length Removed or Left in Place:	The well material was destroyed during overdrilling.
Drilling Contractor: Cascade Drilling	Driller's Name: Ray Whitt

Additional Notes – Sketch of Monitor Well Location

Amec Foster Wheeler Field Representative (signature): Jeffrey F. Moody

amec foster wheeler

Well Abandonment Record

WELL NO.:	MW-307BR
PROJECT NAME:	AGL Augusta
PROJECT NO:	6122140098.10.****
FINISH DATE:	9-1-15

Name of Property Owner:	AGL Services Company
Address of Property:	8th Street and Walton Way. A grassy area on property Georgia Power Company (GPC) utilizes as Fenwick Street Substation, otherwise known as Block D.
Type of Well Installation Method:	Rotasonic/HQ Core
Date of Well Installation:	11/22/1998
Original Purpose of Well Installation:	Groundwater Monitoring/Recovery
Total Depth of Well (measured from Top of Riser):	73′
Top of Riser Height (above/below ground surface):	-4.7′
Well Diameter (nominal) and Material Type:	Open HQ Core Hole 3.5″ From 48′ to 73′
Screen Slot Size and Opening Type:	NA
Screen Length and Backfill Material:	NA
Depth to Water/Date (measured from Top of Riser):	3.56′
Screened Formation or Aquifer Type:	Bedrock
Description of Well Abandonment Method:	Tremie grouted in place
Calculated Well Volume ($\pi r^2 L$ x 7.4805):	Appx. 47 gallons
Type and Volume of Materials Used to Plug Well:	50 gallons of Holcim Type I/II Portland cement
Riser and/or Screen Length Removed or Left in Place:	Left in place and the well vault removed.
Drilling Contractor: Cascade Drilling	Driller's Name: Ray Whitt

Additional Notes – Sketch of Monitor Well Location

Amec Foster Wheeler Field Representative (signature): Jeffrey A. Moore

Well Abandonment Record

amec foster wheeler

WELL NO.:	MW-316
PROJECT NAME:	AGL Augusta
PROJECT NO:	6122140098.10.****
FINISH DATE:	8-31-15

Name of Property Owner:	AGL Services Company
Address of Property:	8th Street and Walton Way. A grassy area on property Georgia Power Company (GPC) utilizes as Fenwick Street Substation, otherwise known as Block D.
Type of Well Installation Method:	Mud Rotary/Air Rotary/HQ Core
Date of Well Installation:	8/15/2000
Original Purpose of Well Installation:	Groundwater Monitoring
Total Depth of Well (measured from Top of Riser):	119.8′
Top of Riser Height (above/below ground surface):	-0.25′
Well Diameter (nominal) and Material Type:	Open HQ Core Hole 3.5″ From 88′ to 119.8′
Screen Slot Size and Opening Type:	NA
Screen Length and Backfill Material:	NA
Depth to Water/Date (measured from Top of Riser):	7.50′
Screened Formation or Aquifer Type:	Bedrock
Description of Well Abandonment Method:	Tremie grouted in place
Calculated Well Volume ($\pi r^2 L$ x 7.4805):	Appx. 75 gallons
Type and Volume of Materials Used to Plug Well:	150 gallons of Holcim Type I/II Portland cement
Riser and/or Screen Length Removed or Left in Place:	Left in place
Drilling Contractor: Cascade Drilling	Driller's Name: Ray Whitt

Additional Notes – Sketch of Monitor Well Location

After pumping appx. 120 gallons of grout, there was still no return at the surface. One bag of bentonite chips was added to plug the zone taking grout.

Amec Foster Wheeler Field Representative (signature): Jeffery T. Moore

amec foster wheeler

Well Abandonment Record

WELL NO.:	MW-321
PROJECT NAME:	AGL Augusta
PROJECT NO:	6122140098.10.****
FINISH DATE:	8-31-15

Name of Property Owner:	AGL Services Company
Address of Property:	8th Street and Walton Way. A grassy area on property Georgia Power Company (GPC) utilizes as Fenwick Street Substation, otherwise known as Block D.
Type of Well Installation Method:	Mud Rotary/Air Rotary
Date of Well Installation:	1/19/2001
Original Purpose of Well Installation:	Groundwater Monitoring
Total Depth of Well (measured from Top of Riser):	170.2′
Top of Riser Height (above/below ground surface):	-0.55′
Well Diameter (nominal) and Material Type:	Open Rock Hole 3.8″ From 160′ to 170.2′
Screen Slot Size and Opening Type:	NA
Screen Length and Backfill Material:	NA
Depth to Water/Date (measured from Top of Riser):	7.0′
Screened Formation or Aquifer Type:	Bedrock
Description of Well Abandonment Method:	Tremie grouted in place
Calculated Well Volume ($\pi r^2 L$ x 7.4805):	Appx. 111 gallons
Type and Volume of Materials Used to Plug Well:	120 gallons of Holcim Type I/II Portland cement
Riser and/or Screen Length Removed or Left in Place:	Left in place.
Drilling Contractor: Cascade Drilling	Driller's Name: Ray Whitt

Additional Notes – Sketch of Monitor Well Location

Amec Foster Wheeler Field Representative (signature): Jeffrey A. Moore

amec foster wheeler

Well Abandonment Record

WELL NO.: MW-322

PROJECT NAME: AGL Augusta

PROJECT NO: 6122140098.10.****

FINISH DATE: 8-31-15

Name of Property Owner:	AGL Services Company
Address of Property:	8th Street and Walton Way. A grassy area on property Georgia Power Company (GPC) utilizes as Fenwick Street Substation, otherwise known as Block D.
Type of Well Installation Method:	Mud Rotary/Air Rotary
Date of Well Installation:	12/14/2000
Original Purpose of Well Installation:	Groundwater Monitoring
Total Depth of Well (measured from Top of Riser):	86′
Top of Riser Height (above/below ground surface):	-0.2′
Well Diameter (nominal) and Material Type:	Open Rock Hole 3.8″ From 49′ to 86′
Screen Slot Size and Opening Type:	NA
Screen Length and Backfill Material:	NA
Depth to Water/Date (measured from Top of Riser):	7.65′
Screened Formation or Aquifer Type:	Bedrock
Description of Well Abandonment Method:	Tremie grouted in place
Calculated Well Volume ($\pi r^2 L$ x 7.4805):	Appx. 56 gallons
Type and Volume of Materials Used to Plug Well:	60 gallons of Holcim Type I/II Portland cement
Riser and/or Screen Length Removed or Left in Place:	Left in place.
Drilling Contractor: Cascade Drilling	Driller's Name: Ray Whitt

Additional Notes – Sketch of Monitor Well Location

Amec Foster Wheeler Field Representative (signature): Jeffrey T. Moore

amec foster wheeler

Well Abandonment Record

WELL NO.: MW-323

PROJECT NAME: AGL Augusta

PROJECT NO: 6122140098.10.****

FINISH DATE:

Name of Property Owner:	AGL Services Company
Address of Property:	8th Street and Walton Way. A grassy area on property Georgia Power Company (GPC) utilizes as Fenwick Street Substation, otherwise known as Block D.
Type of Well Installation Method:	Hollow Stem Auger/Air Rotary
Date of Well Installation:	12/15/2000
Original Purpose of Well Installation:	Groundwater Monitoring
Total Depth of Well (measured from Top of Riser):	95′
Top of Riser Height (above/below ground surface):	-0.7′
Well Diameter (nominal) and Material Type:	Open Rock Hole 3.8″ From 70.5′ to 95′
Screen Slot Size and Opening Type:	NA
Screen Length and Backfill Material:	NA
Depth to Water/Date (measured from Top of Riser):	7.43′
Screened Formation or Aquifer Type:	Bedrock
Description of Well Abandonment Method:	Tremie grouted in place
Calculated Well Volume ($\pi r^2 L$ x 7.4805):	Appx. 62 gallons
Type and Volume of Materials Used to Plug Well:	65 gallons of Holcim Type I/II Portland cement
Riser and/or Screen Length Removed or Left in Place:	Left in place.
Drilling Contractor: Cascade Drilling	Driller's Name: Ray Whitt

Additional Notes – Sketch of Monitor Well Location

Amec Foster Wheeler Field Representative (signature): Jeffery K. Moore

amec foster wheeler

Well Abandonment Record

WELL NO.: MW-324

PROJECT NAME: AGL Augusta

PROJECT NO: 6122140098.10.****

FINISH DATE: 8-31-15

Name of Property Owner:	AGL Services Company
Address of Property:	8th Street and Walton Way. A grassy area on property Georgia Power Company (GPC) utilizes as Fenwick Street Substation, otherwise known as Block D.
Type of Well Installation Method:	Mud Rotary/Air Rotary
Date of Well Installation:	6/14/2001
Original Purpose of Well Installation:	Groundwater Monitoring
Total Depth of Well (measured from Top of Riser):	215′
Top of Riser Height (above/below ground surface):	-0.2′
Well Diameter (nominal) and Material Type:	Open Rock Hole 3.8″ From 209′ to 215′
Screen Slot Size and Opening Type:	NA
Screen Length and Backfill Material:	NA
Depth to Water/Date (measured from Top of Riser):	8.15′
Screened Formation or Aquifer Type:	Bedrock
Description of Well Abandonment Method:	Tremie grouted in place
Calculated Well Volume ($\pi r^2 L$ x 7.4805):	Appx. 140 gallons
Type and Volume of Materials Used to Plug Well:	150 gallons of Holcim Type I/II Portland cement
Riser and/or Screen Length Removed or Left in Place:	Left in place.
Drilling Contractor: Cascade Drilling	Driller's Name: Ray Whitt

Additional Notes – Sketch of Monitor Well Location

Amec Foster Wheeler Field Representative (signature): Jeffrey A. Moore

APPENDIX D

BEDROCK EXTRACTION SYSTEM REVIEW

Report of Review of the Bedrock Extraction System

Atlanta Gas Light Company
Former Manufactured Gas Plant Site
Augusta, Georgia

Prepared for:	Atlanta Gas Light Company Ten Peachtree Pl NE, 17th Floor, Atlanta, Georgia 30309
Date:	November 30, 2015
Prepared by:	Amec Foster Wheeler Environment & Infrastructure, Inc. 1075 Big Shanty Road NW, Suite 100, Kennesaw, Georgia 30144
Project No.:	6122150235

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Attachment A-2 Time-Trend Graphs of Groundwater Analytical Results of Bedrock Wells

LIST OF ACRONYMS AND ABBREVIATIONS

Acronym	Definition
AGLC	Atlanta Gas Light Company
bgs	Below Ground Surface
BPLM	By-Product-Like Material
COI	Constituents of Interest
DNAPL	Dense Non-Aqueous Phase Liquid
EPD	Georgia Environmental Protection Division
FS	Feasibility Study
ft	Feet
gpm	Gallons per Minute
MGP	Manufactured Gas Plant
µg/L	Micrograms per Liter
POTW	Publicly Owned Treatment Works
SVOC	Semi-Volatile Organic Compound
VOC	Volatile Organic Compound
VRP	Georgia Voluntary Remediation Program

GROUNDWATER SCIENTIST CERTIFICATION

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 Amec Foster Wheeler Environment & Infrastructure, Inc. are accepted as accurate and have been integrated into this report as such.

John M. Quinn, P.G. (Georgia P.G. No. 878)
Senior Geologist
Amec Foster Wheeler Environment & Infrastructure, Inc.

11/23/15
Date

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

Registered P.G.'s Stamp:

1.0 PROJECT SUMMARY AND BACKGROUND

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 formerly 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 "Site" in this 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 and surrounding areas since the mid-1980s. EPD accepted the Augusta MGP Site into the Georgia Voluntary Remediation Program (VRP) in a letter dated December 3, 2014.

A review of the bedrock extraction system at the Site has been conducted to assess whether there would be significant benefit of continued groundwater pumping in the interim leading up to remediation that is tentatively scheduled to begin in March 2016. The goals of this Report are to document the methods used in the review, and to provide the conclusions of the review to EPD.

1.1 BEDROCK EXTRACTION SYSTEM

The bedrock groundwater extraction and treatment system at the Site has consisted of two bedrock extraction wells (MW-307BR and MW-308BR) and a treatment facility for the groundwater treatment system. The locations of the wells are shown on Figure 1-3. The wells located on the Georgia Power property on Block D, including MW-307BR, were abandoned on August 31-September 2, 2015 to accommodate expansion of the Georgia Power Substation.

Bedrock monitoring wells MW-307BR and MW-308BR were converted to groundwater extraction wells in 2006. Well MW-307BR was screened in bedrock from 48 to 73 feet (ft) below ground surface (bgs), and Well MW-308BR is screened in bedrock from 55 to 80 ft bgs. Groundwater extracted by the extraction system is treated via activated carbon and discharged to the publicly owned treatment works (POTW). MW-307BR and MW-308BR continued to be sampled as part of semiannual monitoring after conversion to extraction wells.

The objectives of the recovery system were to contain the bedrock groundwater plume and to reduce the mass of dissolved constituents of interest (COIs) in bedrock groundwater. The system has been continuously operated since start up on November 30, 2006 with the exception of temporary shutdowns due to routine maintenance activities. The average flow rates reported in the Feasibility Study (FS) (ECM, 2012a) were 2.8 gallons per minute (gpm) in MW-307BR and 2.65 gpm in MW-308BR.

2.0 SYSTEM OPERATIONS

During the operational period from September 1, 2014 through April 3, 2015, the extraction system was shut down between September 22, 2014 – October 10, 2014 and December 29, 2014 – January 30, 2015 for carbon replacement. 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. As MW-307BR and the adjacent wells were approved for abandonment due to upcoming scheduled construction activities in Block D, MW-307BR was not restarted. MW-307BR and the adjacent Block D wells were abandoned on August 31-September 2, 2015.

MW-308BR was sampled by use of a peristaltic pump during the January 2015 sampling event as the pump in the recovery well was not operational during the sampling event. Both MW-307BR and MW-308BR were sampled by peristaltic pump during the July 2015 sampling event, as the pumps in both recovery wells were not operational.

3.0 GROUNDWATER ANALYTICAL RESULTS

3.1 MW-308BR AND ADJACENT BEDROCK WELL MW-213

Data collected during the January 2015 monitoring event indicated that stable concentration trends of benzene and naphthalene continued to be observed at MW-308BR, as shown in the time-trend graph on Figure 3-1. The July 2015 monitoring data, collected after the well pump had been off approximately seven months, indicated decreases in benzene and naphthalene, with a decrease in benzene from 6,600 µg/L in January 2015 to 880 µg/L in July 2015, and a decrease in naphthalene from 3,400 µg/L in January 2015 to 1,800 µg/L in July 2015. The other volatile organic compounds (VOCs) and semi-volatile compounds (SVOCs) reported at MW-308BR show a similar trend.

The January 2015 monitoring event data for MW-213 (the bedrock well in the vicinity of MW-308BR), collected after the pump in MW-308BR had been off approximately 15 days, indicated an increase in naphthalene and benzene. It should be noted that while the July 2014 MW-213 data showed an anomalous decrease in all of the reported VOCs and SVOCs, the January 2015 benzene and naphthalene results were an increase over the historical concentrations previously observed at this well. The July 2015 MW-213 monitoring data, collected after the well pump at MW-308BR had been off approximately seven months, indicated decreases in benzene and naphthalene to levels more consistent with historical values, as shown on the time-trend graph on Figure 3-2. The other VOCs and SVOCs reported at MW-213 in July 2015 remained at levels consistent with historical results.

3.2 GALLIARD AND BEDROCK WELLS IN THE VICINITY OF MW-308BR

The bedrock recovery system was shut off for a carbon change-out on December 29, 2014 and remained off for 14 days prior to the gauging event on January 12, 2015. Therefore, the January 2015 groundwater flow and directions are believed to be indicative of ambient conditions (17th Semiannual Corrective Action Effectiveness Report, ERM, 2015), and are used in this discussion. The January 2015 groundwater elevation monitoring data indicated an overall easterly groundwater flow in the Galliard Formation, toward the Savannah River, and groundwater flow in the bedrock aquifer toward the southeast (ERM, 2015).

Time-trend graphs of groundwater analytical results were prepared for Gaillard and bedrock monitoring wells in the vicinity of bedrock extraction well MW-308BR (Attachment 1). The distance to these wells from MW-308BR ranged from 22 to 214 feet for the Galliard wells, and from 280 to 610 feet for the bedrock wells.

3.2.1 GALLIARD WELLS

The analytical data through July 2015 for the Galliard wells (MW-12, MW-22, MW-202DR, MW-203, MW-205 and MW-601) showed no noticeable increase in COI concentrations that could be attributed to the shutdown of the pump in MW-308BR on December 29, 2015. Note that although MW-205 was not sampled in January and July 2015 due to the reported presence of dense non-aqueous phase liquid (DNAPL), DNAPL has been reported in this well historically, with the most recent occurrence in July 2013.

At MW-12, while benzene and naphthalene and other COIs have exhibited an increasing trend since 2013, the concentrations reported in January 2015 showed a decrease. The MW-12 benzene concentration in July 2015 returned to a level consistent with the trend observed since 2013. The other COIs either showed a decrease or were stable when compared to previous levels. The slight increase in benzene concentration does not appear to be attributable to the shutdown on pumping at MW-308BR, but is consistent with the trend observed since 2013.

The July 2015 COI concentrations in the other Galliard wells (MW-22, MW-202DR, MW-203 and MW-601) were all either stable or showed a decrease as compared to historical levels. With the overall easterly groundwater flow in the Galliard Formation, wells MW-22 and MW-203 (located to the east of MW-308BR) would be expected to be the wells most likely to exhibit an increase in COI concentration in response to the shutdown of pumping at MW-308BR in case there was a strong hydraulic connection between the Galliard Formation and the bedrock caused by pumping. Neither of these wells exhibited a COI increase with the July 2015 analytical results.

3.2.2 BEDROCK WELLS

The analytical data through July 2015 for the bedrock wells (MW-309BR, MW-500BR, MW-508BR, MW-509BR, and MW-510BR) showed no noticeable increase in COI concentrations that could be attributed to the shutdown of the pump in MW-308BR on December 29, 2015.

The July 2015 COI concentrations in all the bedrock wells examined were all either stable or showed a decrease as compared to historical levels. With the southeasterly groundwater flow in the bedrock aquifer, well MW-309BR (located to the southeast of MW-308BR) would be expected to be the well most likely to exhibit an increase in COI concentration in response to the shutdown of pumping at MW-308BR. No COI increase occurred at MW-309BR with the July 2015 analytical results.

4.0 PREVIOUS CONCLUSIONS RELATED TO PLUME MOVEMENT IN THE BEDROCK AT THE SITE

4.1 GROUNDWATER MODELING

Groundwater modeling was performed to assess the effectiveness of groundwater extraction, as documented in the Groundwater Flow and Transport Model Report (Model Report) (ECM, 2012). As summarized in the FS, the Model Report concluded that for the base model period the dissolved benzene and naphthalene concentrations predicted by the model indicate relatively stable plumes. Groundwater modeling results indicated that the groundwater plume in the Galliard and the bedrock is stable and is naturally contained with no significant downgradient migration, and groundwater extraction does not add significant value in containing the COIs.

The FS concluded that based on the historical base model period and the current interpretation of by-product-like material (BPLM) source areas, significant future migration of COIs was not expected under similar hydrogeologic conditions (e.g. the plumes are stable).

4.2 GROUNDWATER MODELING RESULTS

The FS also concluded that groundwater monitoring results for the bedrock indicate that the bedrock COI plumes have been stable and in general have remained close to the location of the original sources. This was interpreted to strongly suggest that the COIs are not migrating. If the COIs had been migrating, a more widespread distribution of the COIs would have been observed.

The FS also pointed out that COI concentrations in the vicinity of bedrock recovery well MW-308BR (at MW-213) had not been reduced in spite of operating the bedrock recovery system over a period of more than 6 years (at the time of the writing of the FS).

5.0 SUMMARY AND CONCLUSIONS

In summary, as stated in the FS, the bedrock groundwater plumes have been stable, even prior to the start-up of the bedrock recovery system, and operation of the bedrock recovery system has not resulted in a decrease in the overall extent of the bedrock COI plume. Based on the observations and conclusions given above, the FS recommended discontinuing operation of the bedrock groundwater extraction system.

The conclusions given in the FS appear to be supported by the results of the January 2015 monitoring event (conducted after the MW-308BR well pump had been off for approximately 15 days) and the July 2015 monitoring results (conducted after the well pump had been off approximately 7 months). The July 2015 results demonstrate a return to recent historical VOC and SVOC values in MW-213 (in the vicinity of MW-308BR), and show a decrease in VOC and SVOC values in MW-308BR. Thus, no substantial increases in COI concentrations were noticed in the bedrock well in the vicinity of MW-308BR, and the COI concentrations in MW-308BR showed a decrease below recent historical levels. Additionally, no increase in COI concentrations were noted in Galliard and bedrock wells in the vicinity of MW-308BR that could be attributed to shutdown of the pump in MW-308BR.

Based on these observations, and the previous conclusions regarding stability of the plume stated in the FS, it is concluded that there would not be significant benefit of continued groundwater pumping in the interim leading up to remediation that is tentatively scheduled to begin in March 2016. As stated in the Voluntary Remediation Program 1st Semi-Annual Status Report (Amec Foster Wheeler, 2015), 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 may be sampled during ISS implementation to continue to evaluate groundwater quality.

6.0 REFERENCES

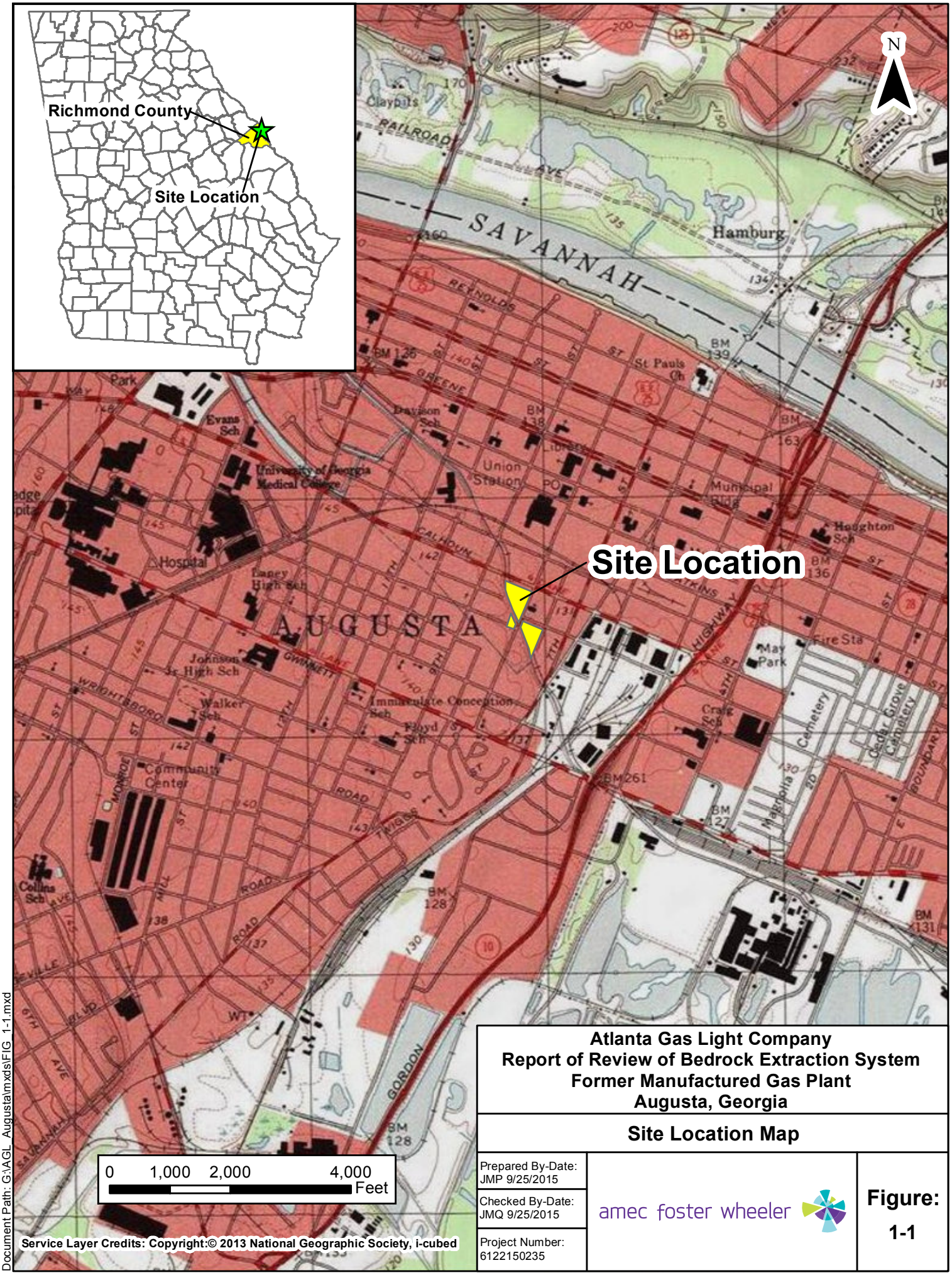
Amec Foster Wheeler, 2015. *Voluntary Remediation Program 1st Semi-Annual Status Report, Former Manufactured Gas Plant Site, Augusta, Georgia*. Prepared by Amec Foster Wheeler Environment and Infrastructure, Inc., May 29, 2015.

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

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

ERM, 2015. *17th Semiannual Corrective Action Effectiveness Report: January 2015 Groundwater Monitoring Event, Former Manufactured Gas Plant Site, Augusta, Georgia.* Prepared by Environmental Resources Management, May 29, 2015.

FIGURES



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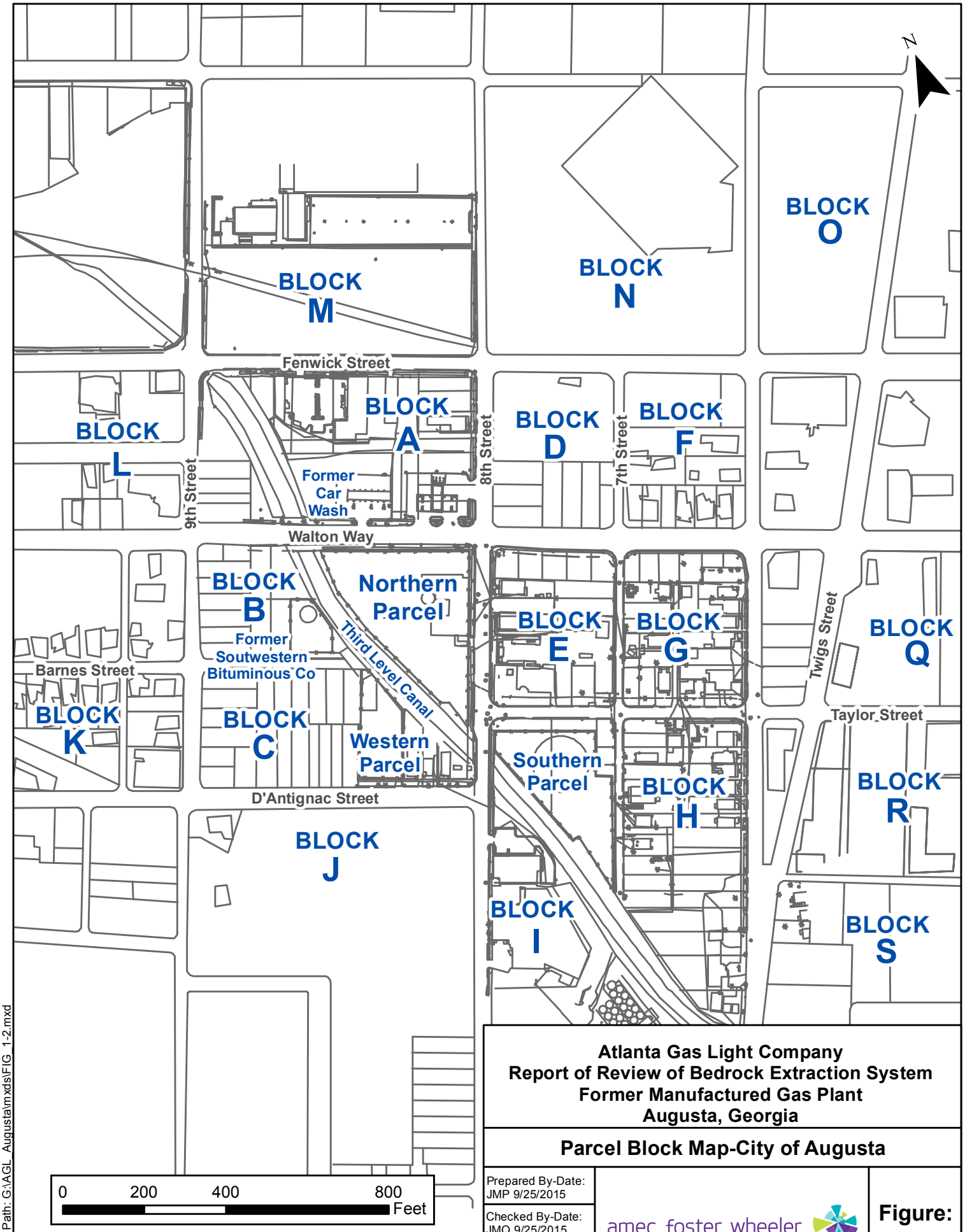
Atlanta Gas Light Company
Report of Review of Bedrock Extraction System
Former Manufactured Gas Plant
Augusta, Georgia

Site Location Map

Prepared By-Date: JMP 9/25/2015	amec foster wheeler	**Figure: 1-1**
Checked By-Date: JMQ 9/25/2015		
Project Number: 6122150235		



Source: Environmental Cost Management 2012, Feasibility Study

Atlanta Gas Light Company
Report of Review of Bedrock Extraction System
Former Manufactured Gas Plant
Augusta, Georgia

Parcel Block Map-City of Augusta

Prepared By-Date: JMP 9/25/2015

Checked By-Date: JMQ 9/25/2015

Project Number: 6122150235

amec foster wheeler

Figure: 1-2

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Alluvium Monitoring Well
Galliard Monitoring Well
Saprolite Monitoring Well
Bedrock Monitoring Well
Bedrock Recovery Well
Destroyed Alluvium Monitoring Well
Destroyed Bedrock Monitoring Well
Depth Discrete Sampling Port
Parcels
ISS (In Situ Solidification) Area
ISCO (In Situ Chemical Oxidation) Area

NOTE:
Depth discrete sampling port may contain up to four tubes within its well casing that are screened at different depth intervals (Alluvium = S, Galliard = D, Saprolite = SAP and Transition = TZ)

SOURCE: ERM 2015, 17th SemiAnnual CAER

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Atlanta Gas Light Company
Report of Review of Bedrock Extraction System
Former Manufactured Gas Plant
Augusta, Georgia

Groundwater Monitoring Well Network

Prepared By-Date: JMP 9/25/2015

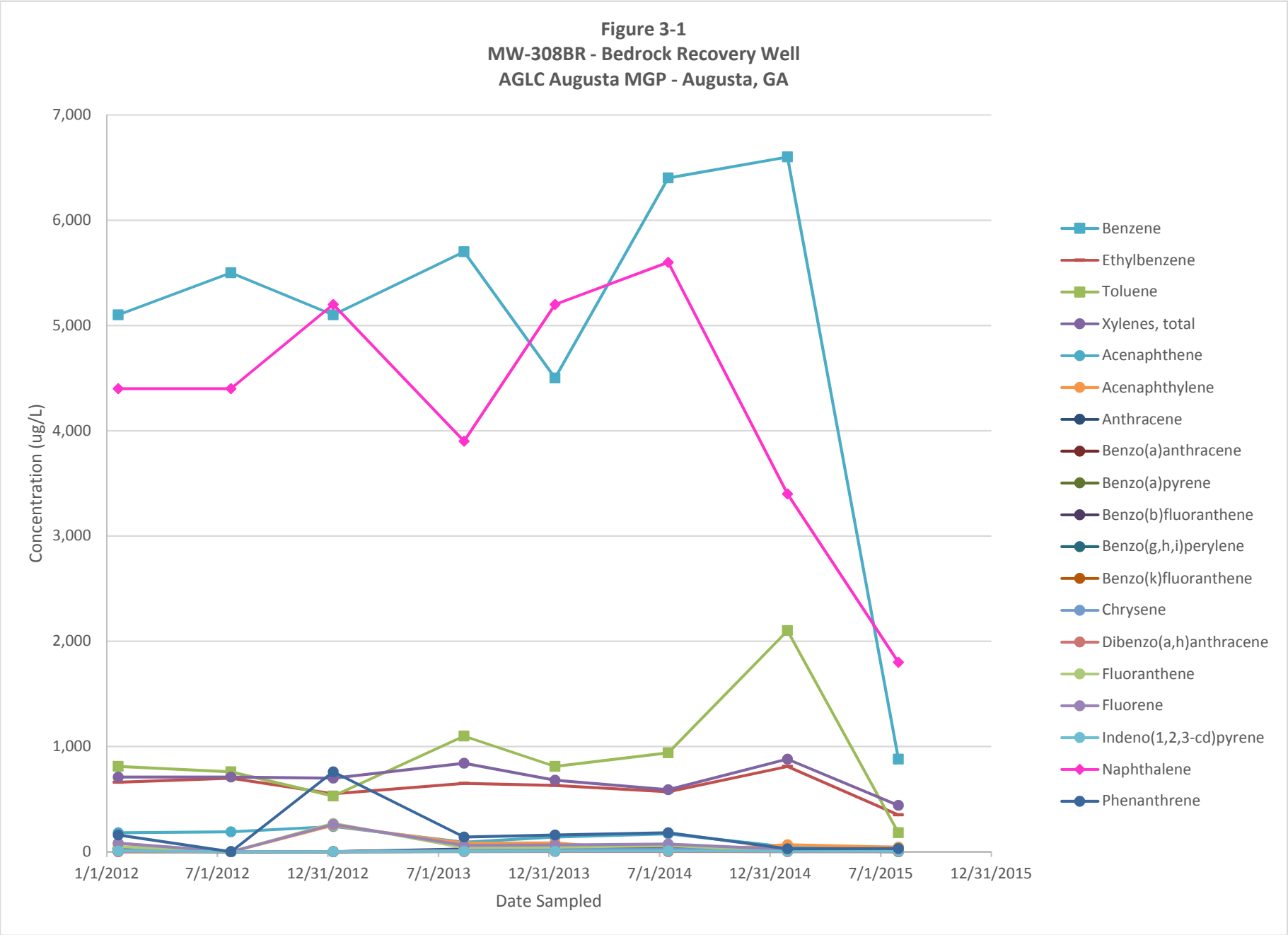
Checked By-Date: JMQ 9/25/2015

Project Number: 6122150235

amec foster wheeler

Figure: 1-3

Document Path: G:\AGL_Augusta\mxds\FIG_1-3.mxd



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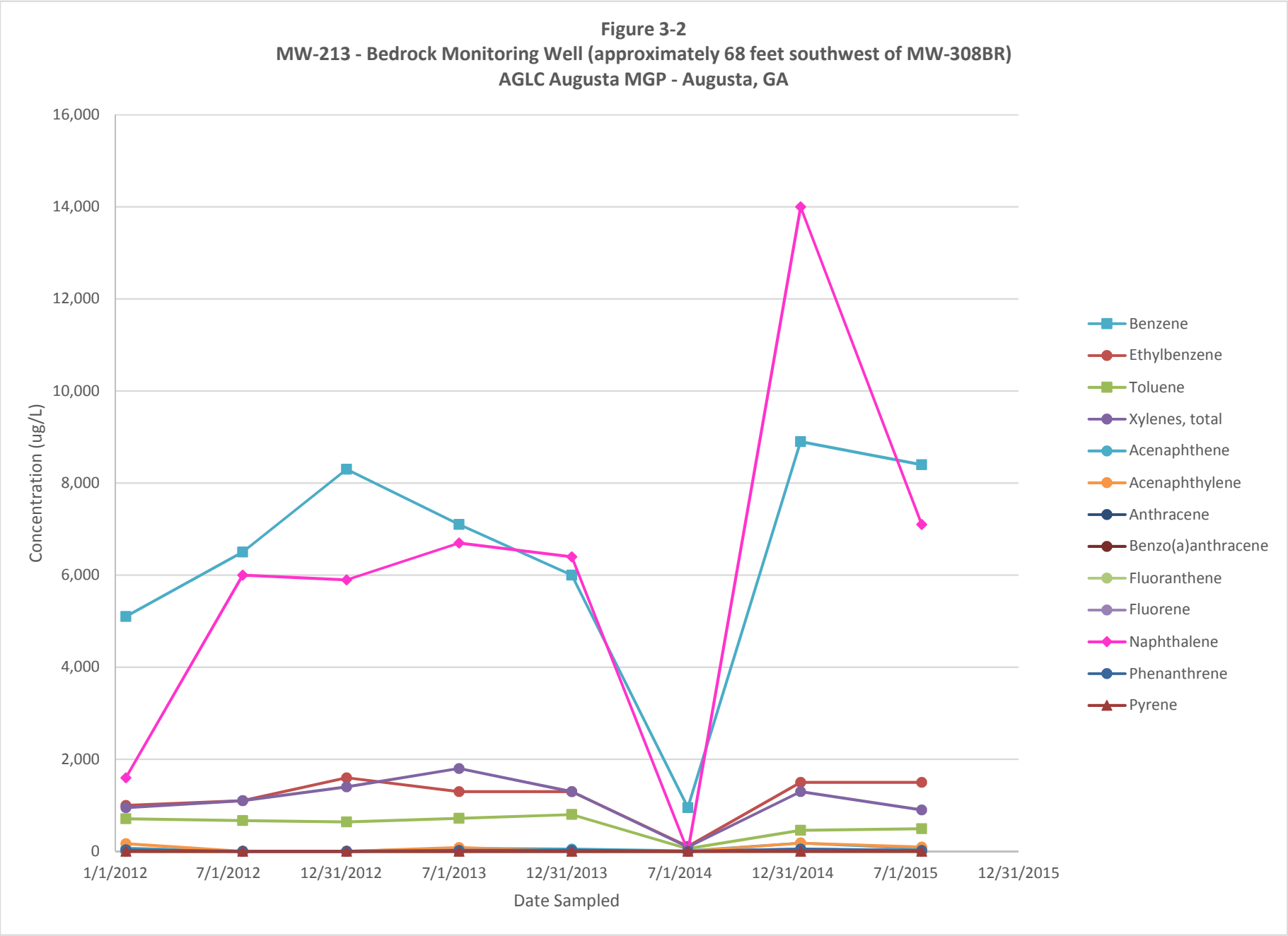

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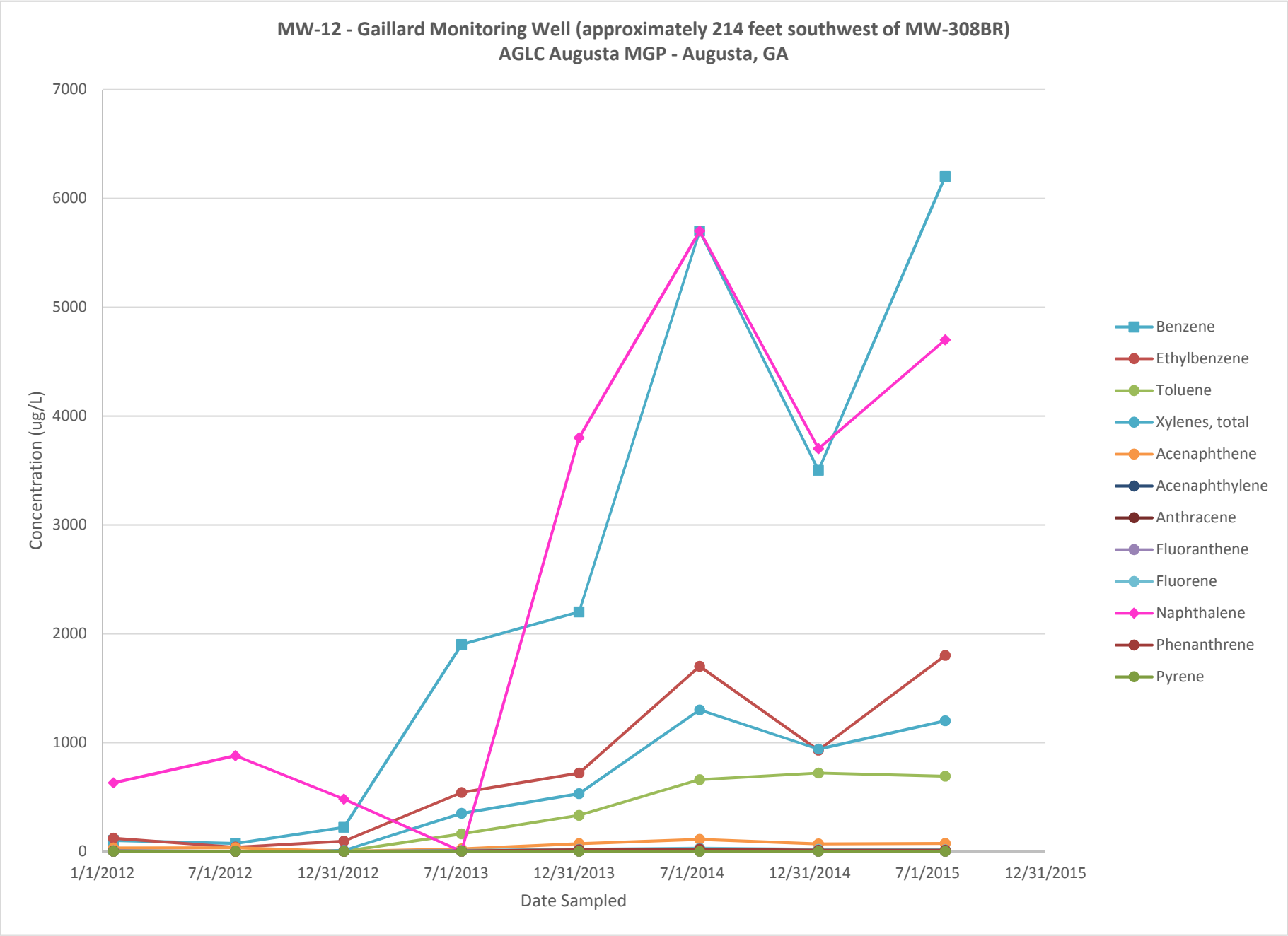
ATTACHMENT A

TIME-TREND GRAPHS OF GROUNDWATER ANALYTICAL RESULTS OF GALLIARD AND BEDROCK WELLS

ATTACHMENT A-1

TIME-TREND GRAPHS OF GROUNDWATER ANALYTICAL RESULTS OF GALLIARD WELLS



Amec Foster Wheeler 6122-15-0235

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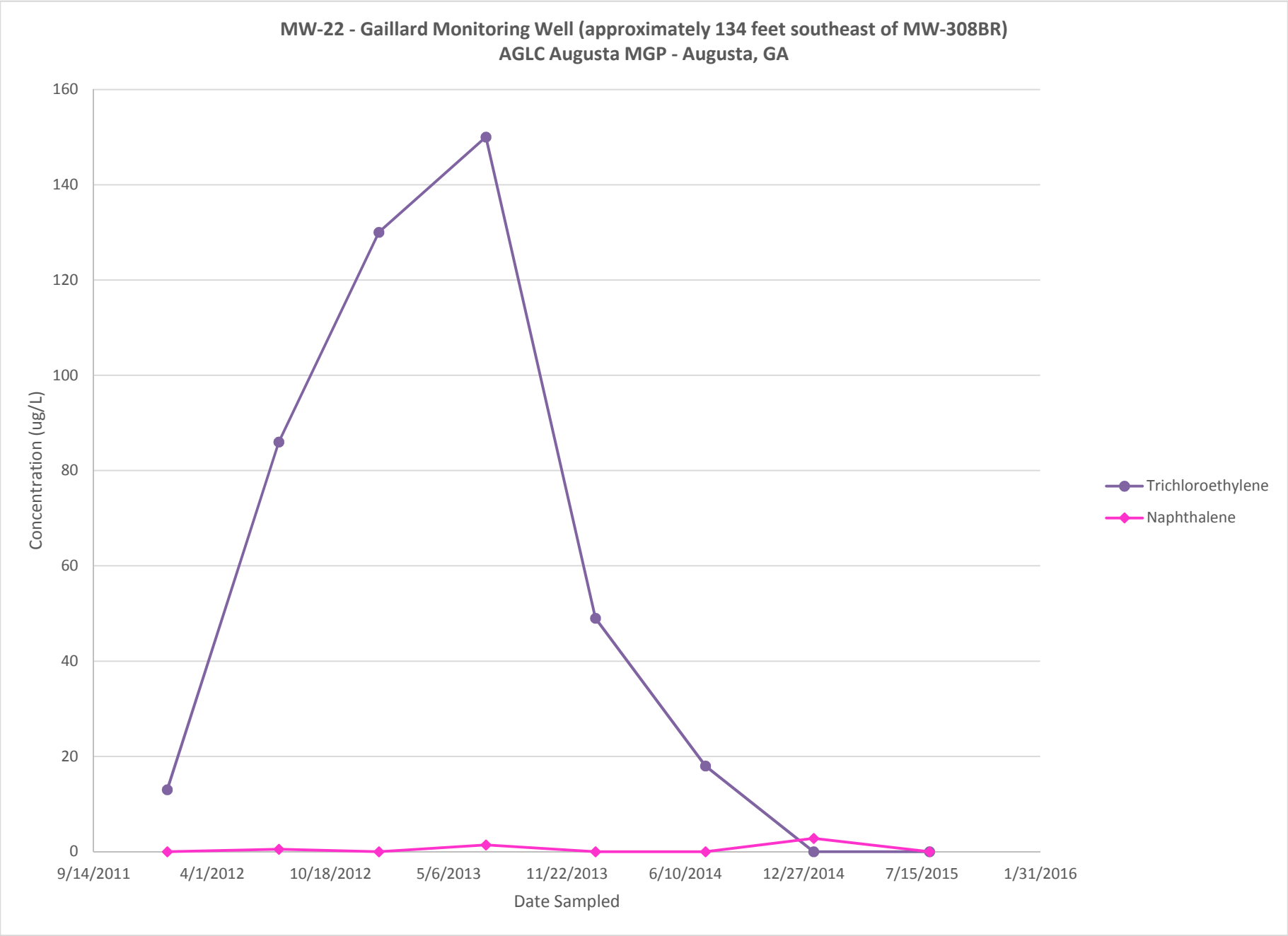

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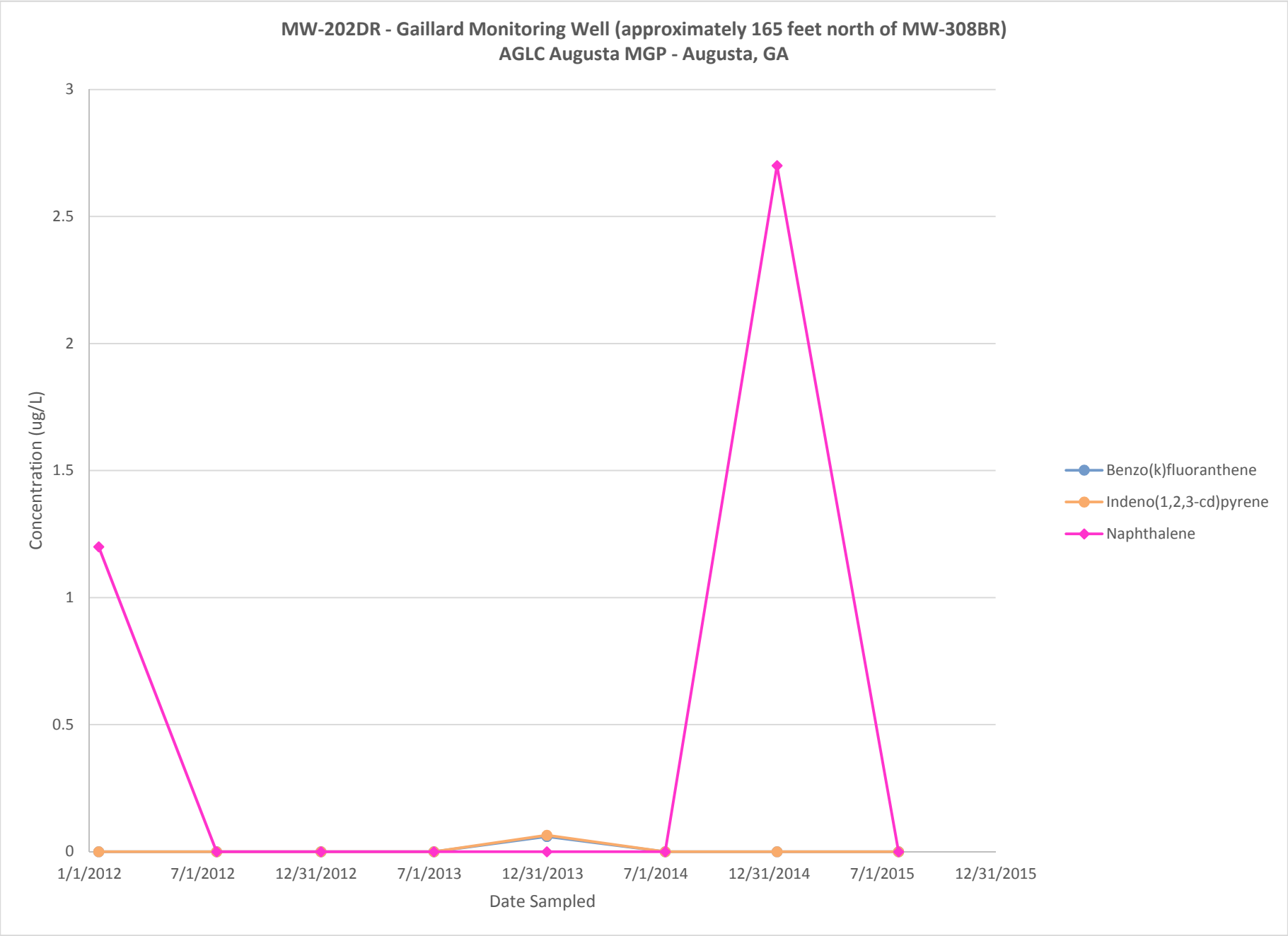

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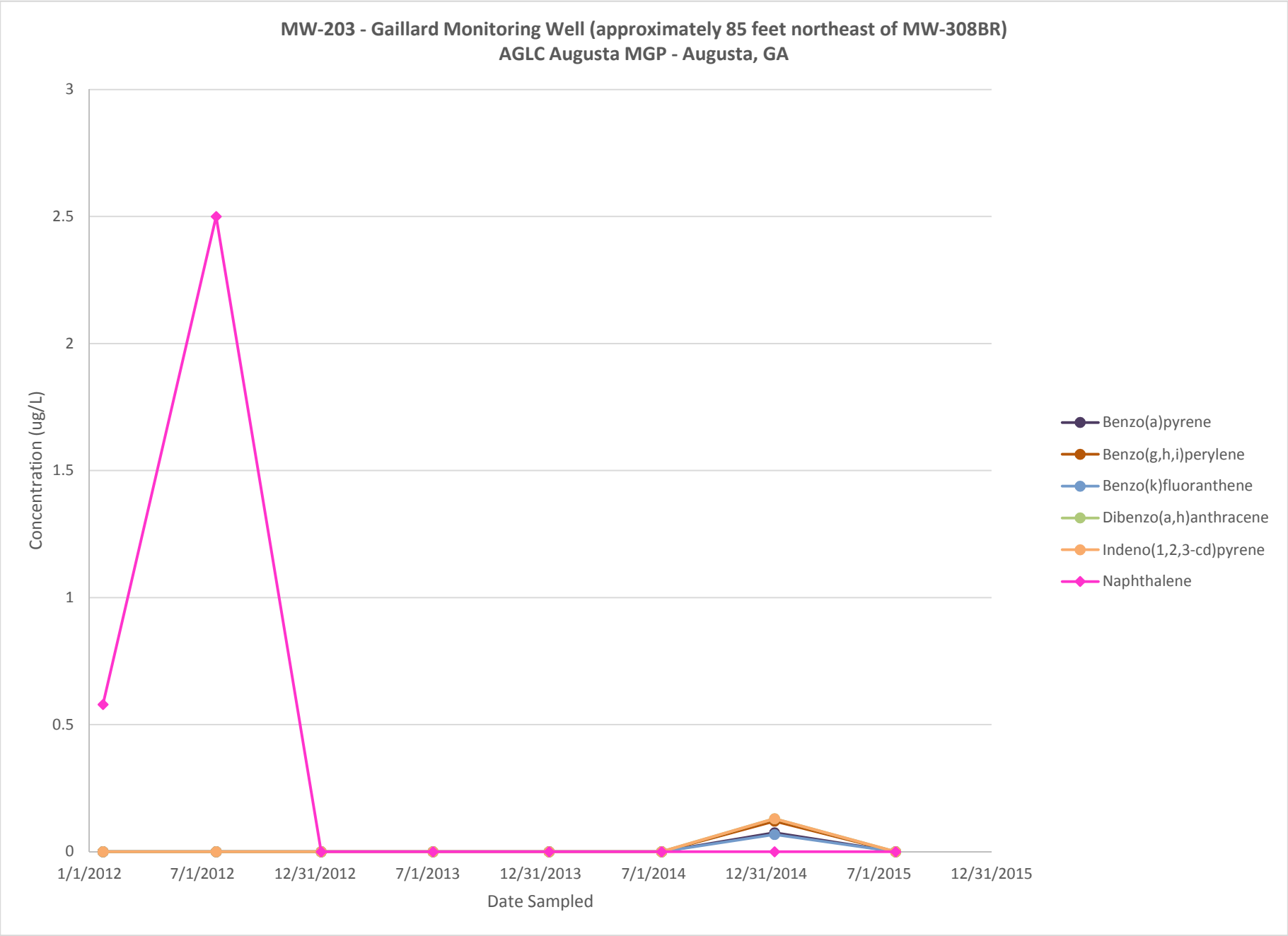

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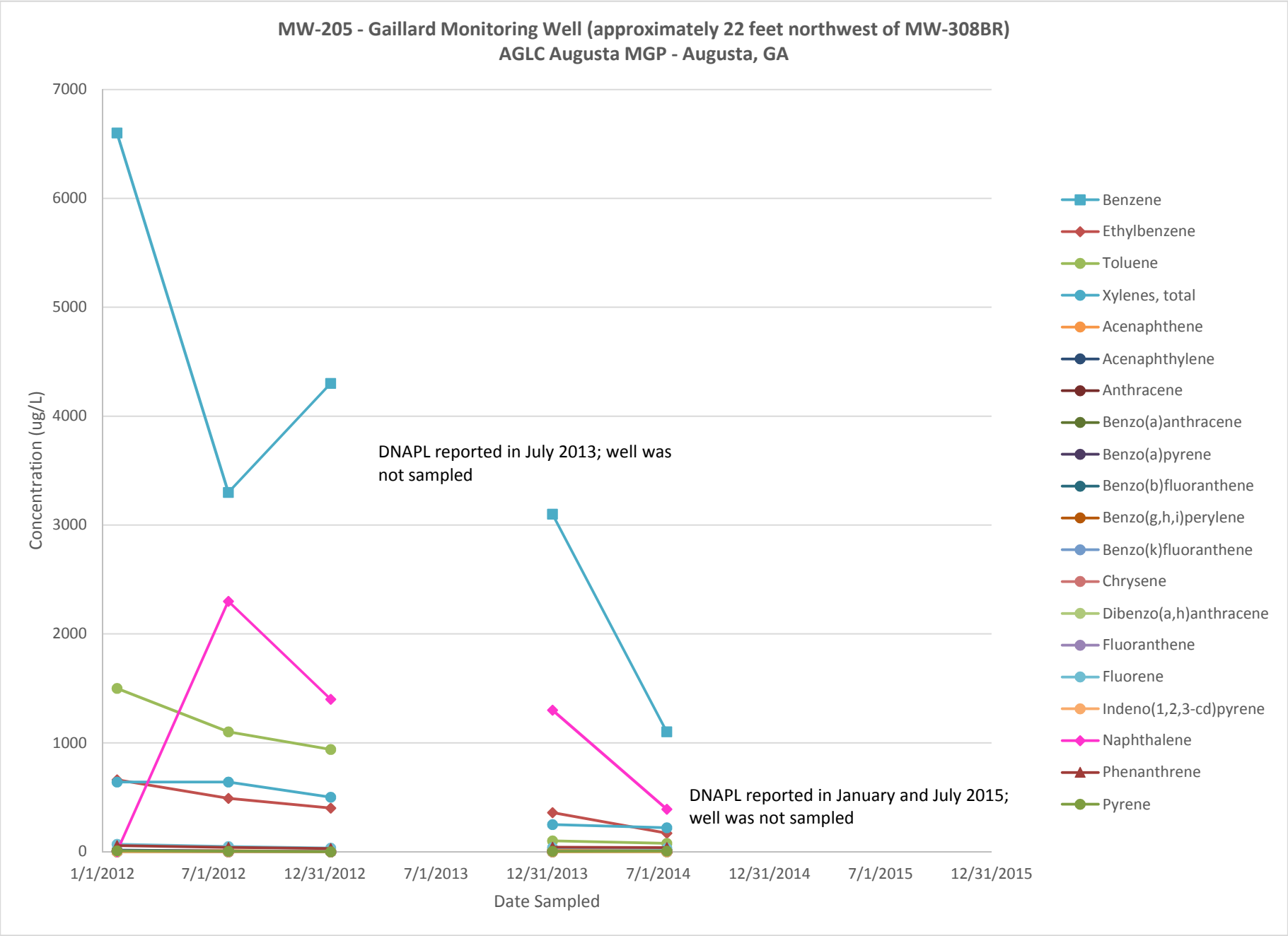

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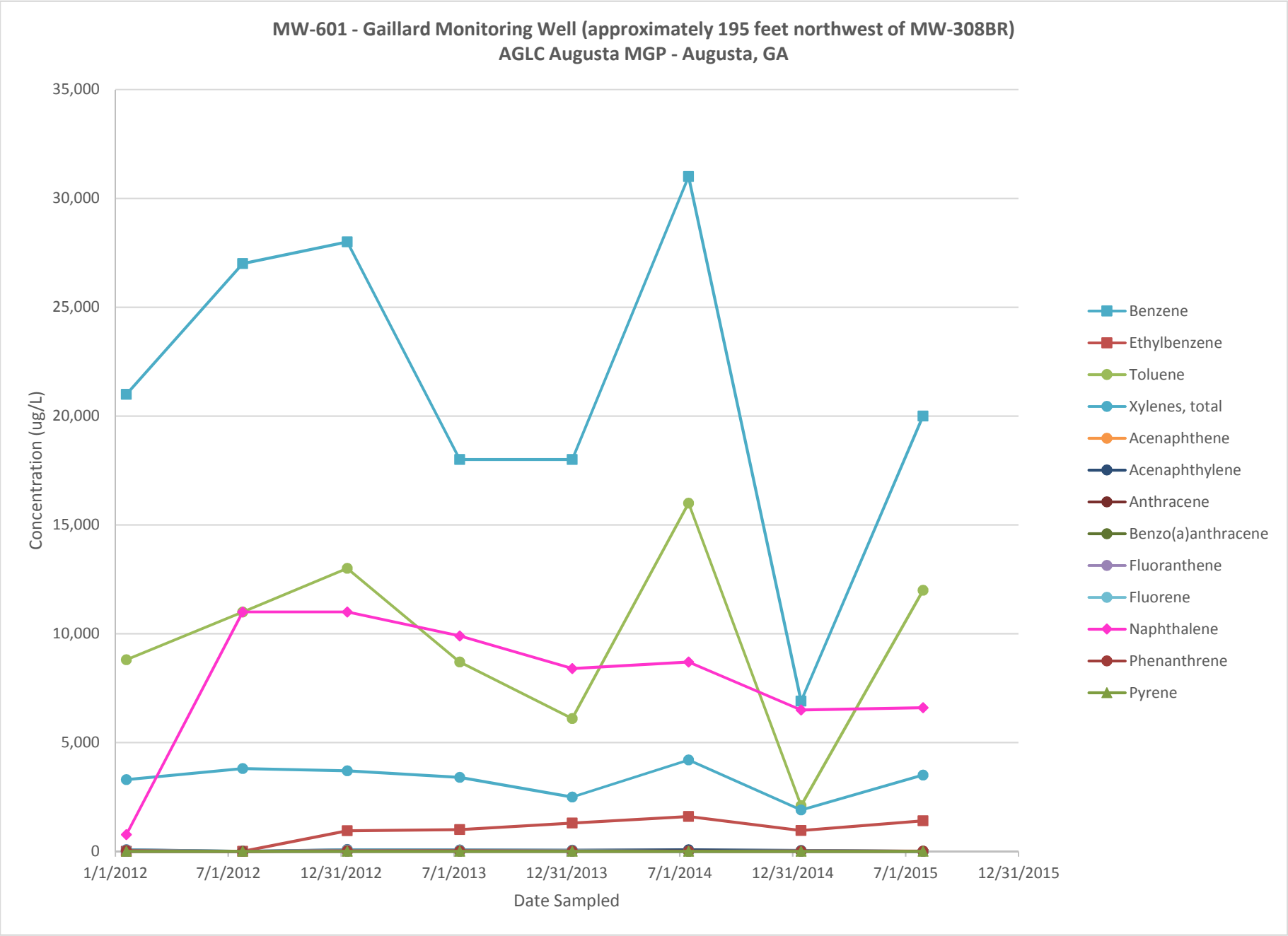

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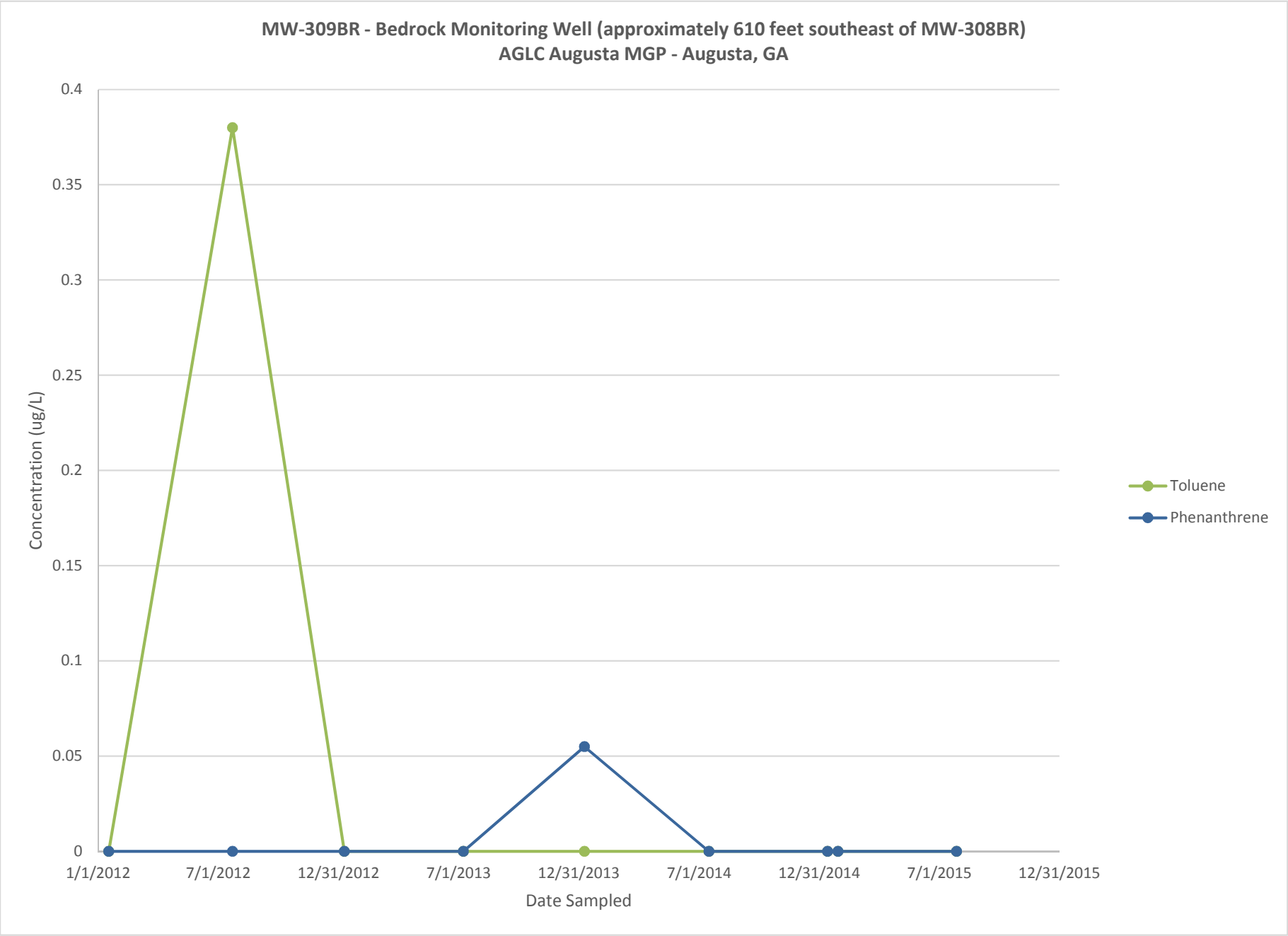
ATTACHMENT A-2

TIME-TREND GRAPHS OF GROUNDWATER ANALYTICAL RESULTS OF BEDROCK WELLS



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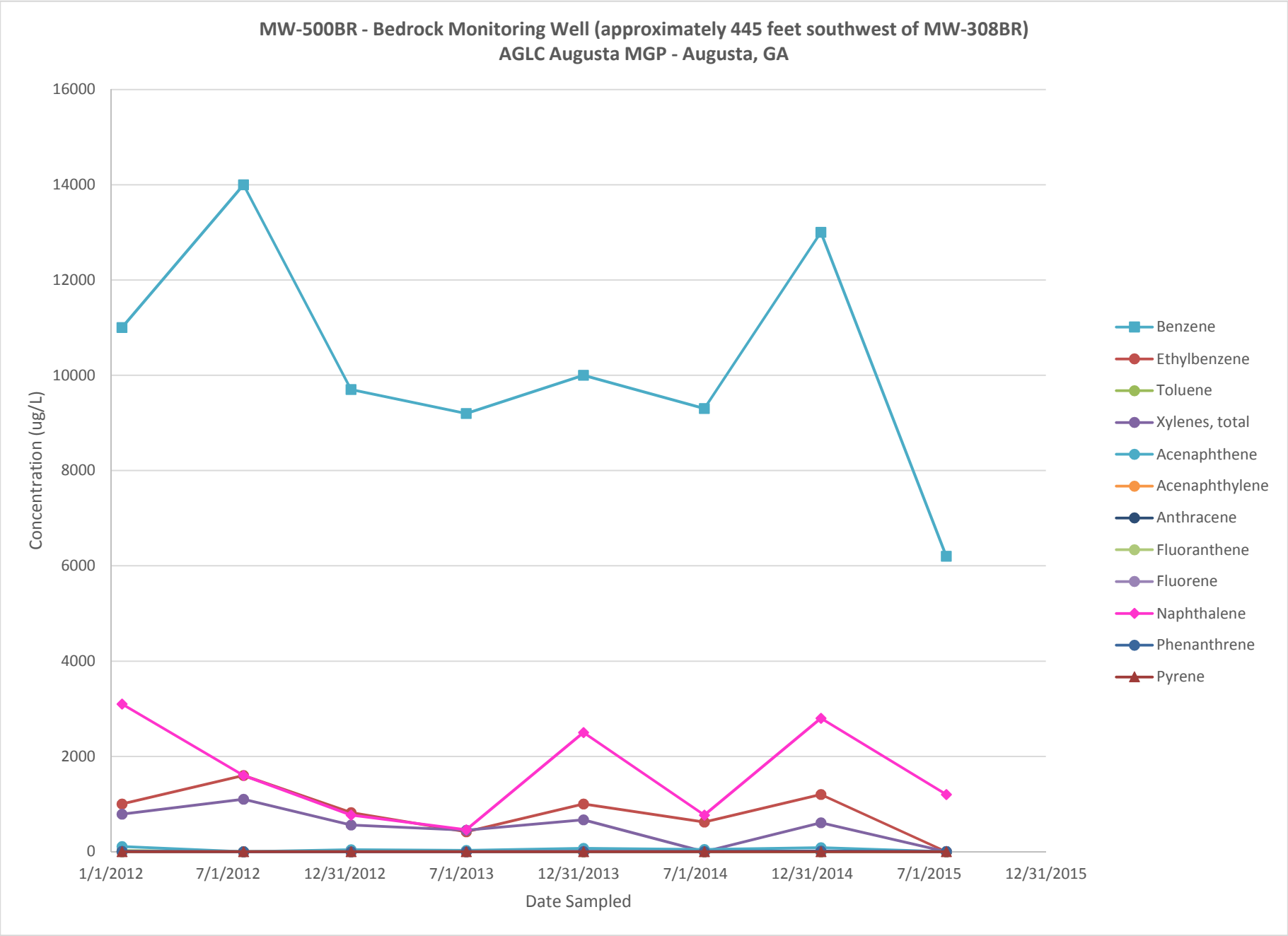

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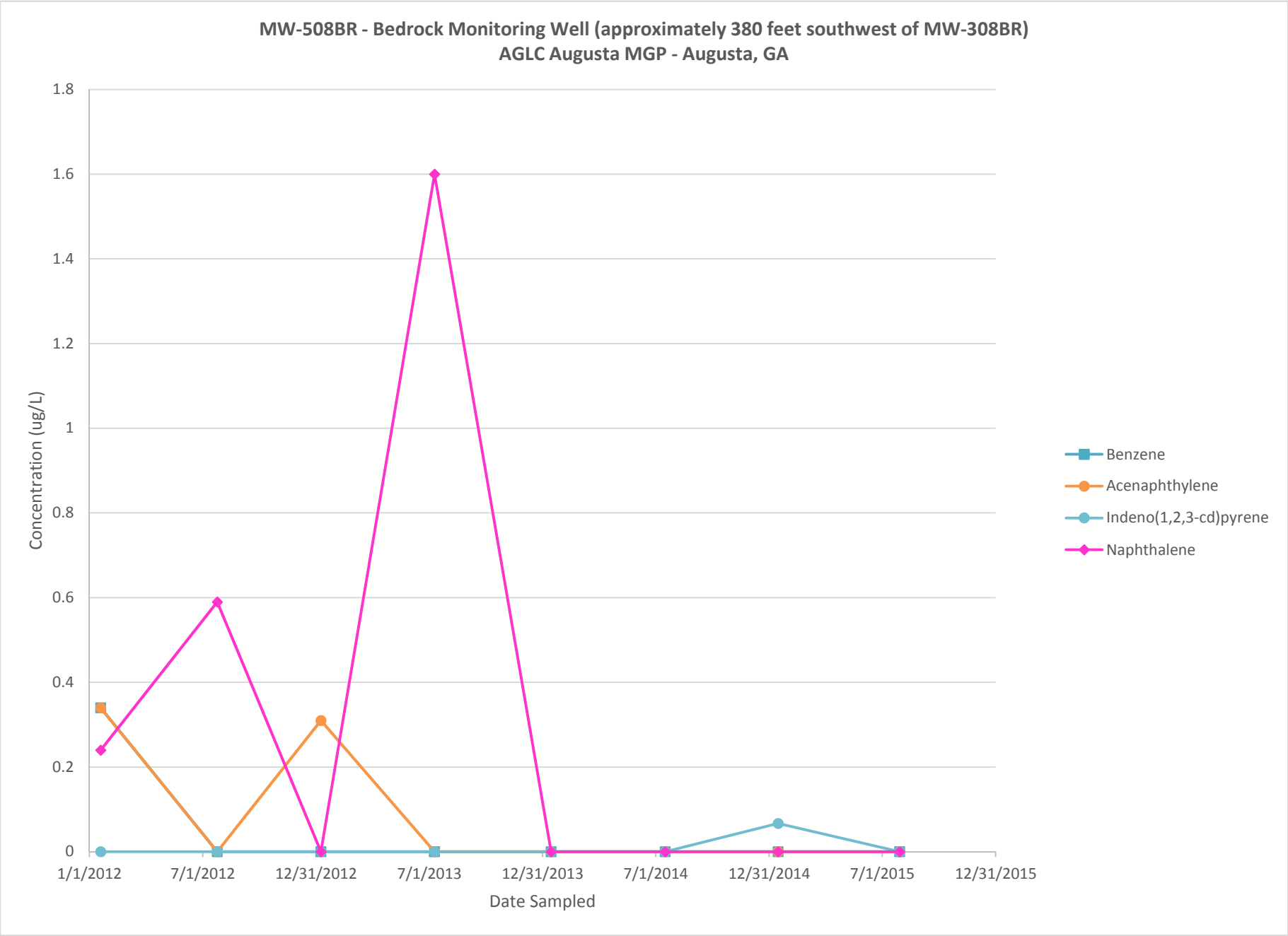

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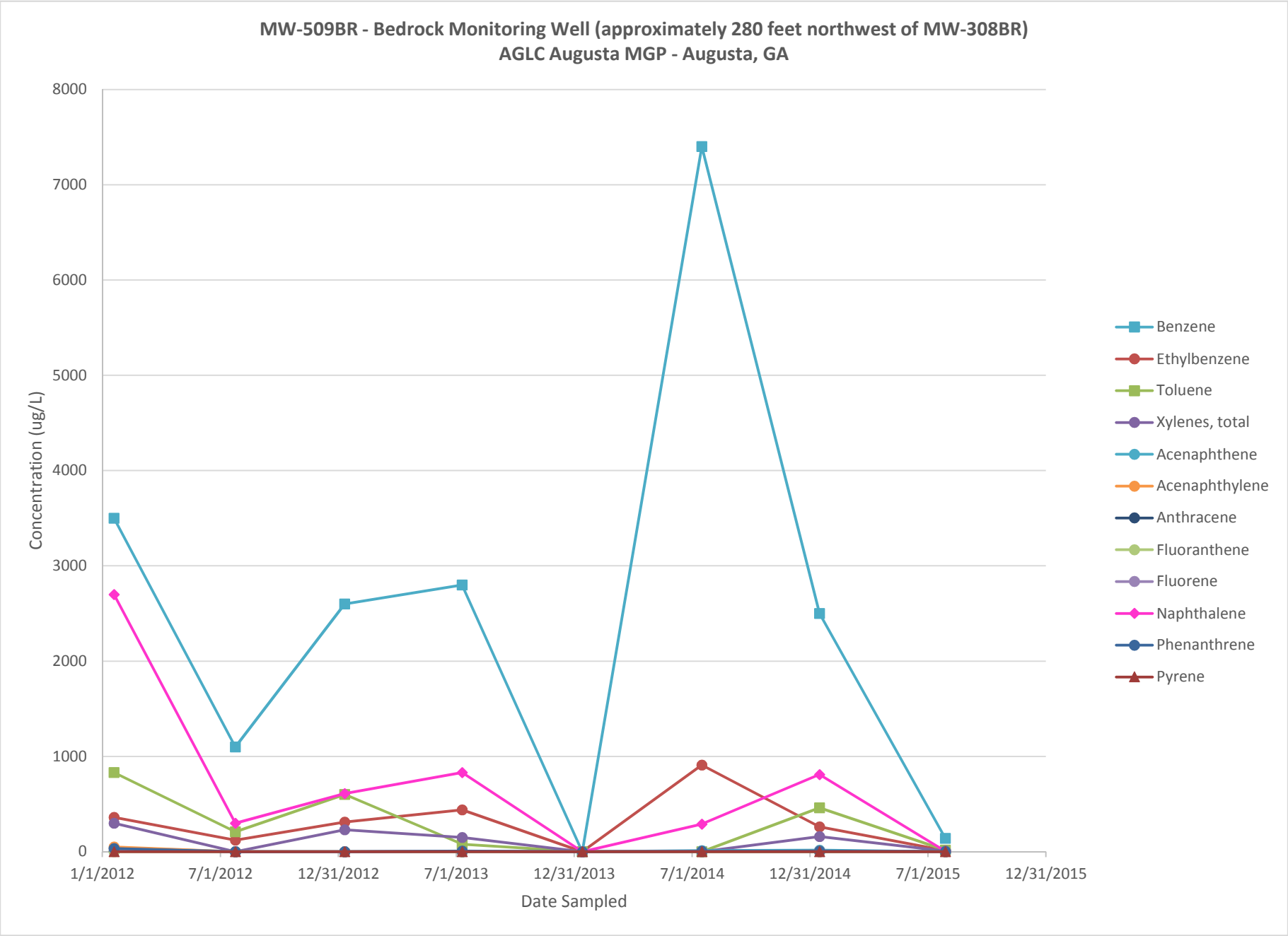

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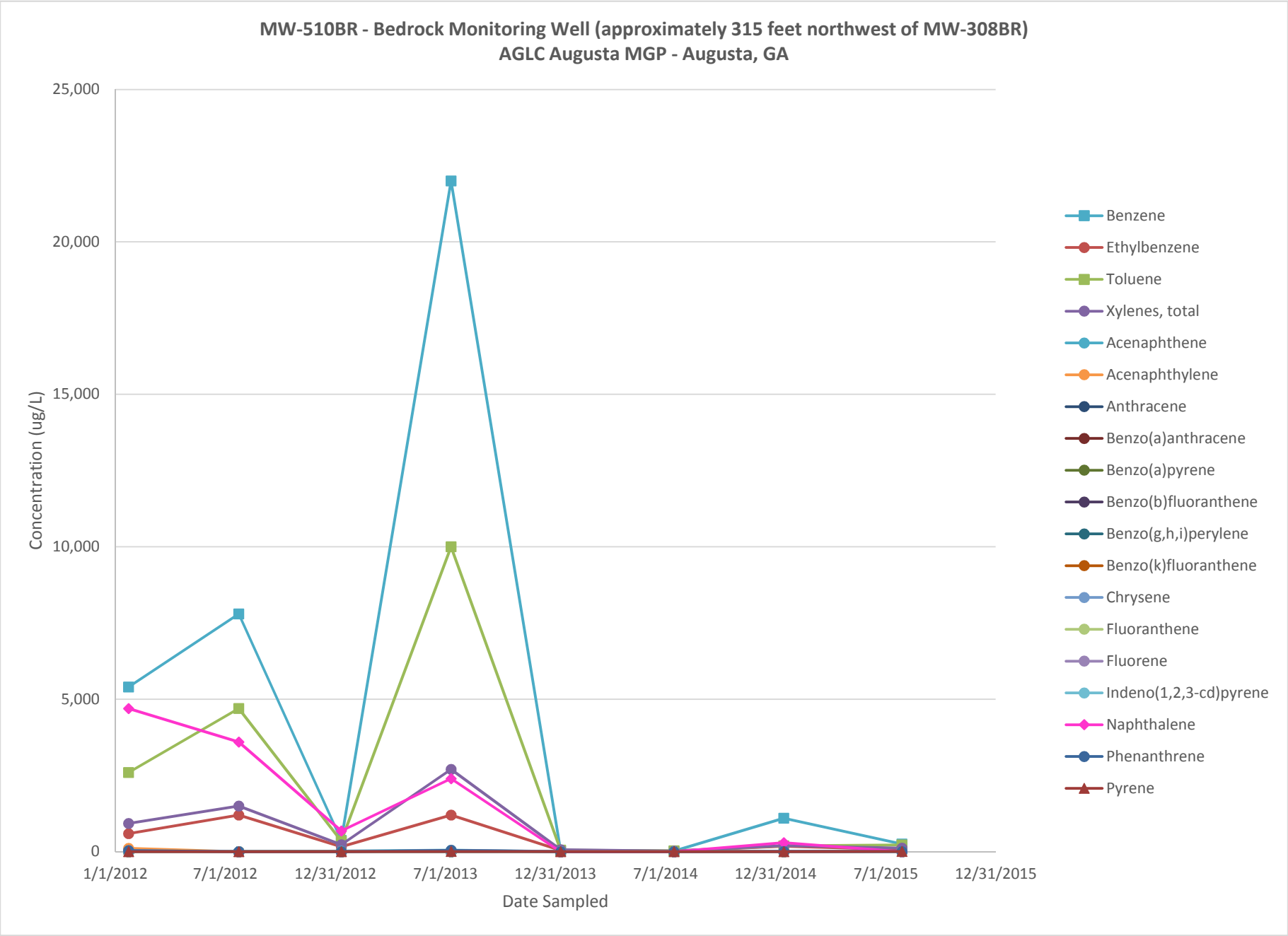

Amec Foster Wheeler 6122-15-0235

Prepared by/date: JMQ 11/20/15
Checked by/date: MBB 11/23/15

REGISTERED PROFESSIONAL SUPPORTING DOCUMENTATION

Leslie S. Miller, P.E.
Summary of Hours and Services
Atlanta Gas Light Company – Augusta, GA Former MGP Site
HSI Site No. 10132
Amec Foster Wheeler Project No. 6122-14-0098

Hours for preparation of 2nd Semi Annual VRP Status Report:

62 hours invoiced between June 1, 2015 through November 30, 2015