February 8, 2016

Mr. David Brownlee
Georgia Environmental Protection Division
Land Protection Branch
Response & Remediation Program
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Atlanta, Georgia 30334-9000

Via: Paper Copy and PDF copy on CD

Subject: **Voluntary Remediation Plan Status Report No. 8**
Former Estech General Chemicals Site - Atlanta, Georgia
HSI Site No. 10196 Parcels 17-0191-LL0244 and 17-0191-LL0400
Amec Foster Wheeler Project 6122-08-0154

Dear Mr. Brownlee:

Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), on behalf of BFEL Indemnitor, Inc. (BFEL) is hereby submitting the attached Status Report No.8 for Voluntary Remediation Program Remediation activities for the Former Estech General Chemicals Site in Atlanta, Fulton County, Georgia (HSI Site No. 10196, Tax Parcels 17-0191-LL0244 and 17-0191-LL0400).

This status report is required by the Voluntary Remediation Program statue and requested by the Georgia Environmental Protection Division (EPD) in their approval letter dated February 8, 2012. This status report covers the period from August 2015 to February 2016. The report includes information on the recent site-wide groundwater and surface water monitoring, further evaluation of the M&J Solvent site VOC plume impact on the Estech site, and a summary of professional hours. BFEL and Amec Foster Wheeler would like to meet with you in the near term to discuss the path forward for the site.

Please review the attached report and contact Greg Wrenn at (770) 421-3472 with any questions you may have.

Sincerely,

Amec Foster Wheeler Environment & Infrastructure, Inc.

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Voluntary Remediation Program Status Report #8

Former Estech General Chemical Site
Atlanta, Fulton County, Georgia
Parcels 17-0191-LL0244 and 17-0191-LL0400
HSI Site No. 10196

Prepared for:	BFEL Indemnitor, Inc. Omaha, Nebraska
Date:	February 8, 2015
Prepared by:	Amec Foster Wheeler Environment & Infrastructure, Inc. 1075 Big Shanty Road NW, Suite 100, Kennesaw, Georgia 30144
Project No.:	6122080154

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1.0 PE CERTIFICATION

"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Gregory J. Wrenn/ Georgia P.E. #25565
Printed Name and GA PE Number

February 8, 2016
Date

Signature and Stamp

2.0 INTRODUCTION AND BACKGROUND

This Voluntary Remediation Program Semi-Annual Status Report No. 8 (Status Report) was prepared, on behalf of BFEL Indemnitor, Inc. (BFEL), in accordance with the Voluntary Remediation Program (VRP) for the Former Estech General Chemicals site, Hazardous Site Inventory (HSI) No. 10196/Tax Parcel Parcels 17-0191-LL0244 and 17-0191-LL0400. The Georgia Environmental Protection Division (EPD) requested in their February 8, 2012 approval letter that status reports be submitted in August and February. This eighth Status Report covers the activities conducted from August 2015 until shortly before the submittal of this status report (February 2016).

The Former Estech General Chemicals site is located at 1551 Marietta Road in Atlanta, Fulton County, Georgia inside of the Inman Railyards. The CSX Transportation Tilford Yard is within the Inman Railyards and surrounds the Estech property. The site soil and groundwater impacts for site constituents (organochlorine-pesticides, arsenic, lead, and polynuclear aromatic hydrocarbons) were delineated under the Georgia Hazardous Site Response Act (HSRA) and certified to risk reduction standards. The most recent HSRA Compliance Status Report (CSR) was prepared and submitted October 19, 2007. EPD issued comments on the CSR, dated November 18, 2008. BFEL responded to the comments on February 27, 2009. EPD commented on the responses on December 18, 2009 and requested a Corrective Action Plan (CAP). An initial VRP Application, dated March 18, 2010 and an Addendum, dated March 16, 2011, were submitted to EPD to enter the site into the VRP. The VRP Application and Addendum were submitted in lieu of a HSRA CAP. The VRP Application Addendum contained a revised Voluntary Investigation and Remediation Plan (VIRP) and addressed the EPD VRP Application comment letter dated July 23, 2010. On February 8, 2012, EPD approved the VIRP and accepted the Former Estech General Chemicals site into the VRP. The activities conducted subsequent to the date the site was accepted into the VRP have been documented in semi-annual VRP Status Reports.

In accordance with the VIRP, a pilot test was conducted from January 2013 through April 2014 to evaluate the effectiveness of an EHC-M permeable reactive barrier (PRB) to address groundwater impacts. Because the EHC-M injections did not demonstrate that the EHC-M PRB was effective, VRP Status Report No. 5 (August 2014) presented a revised Remediation Plan. The Revised Remediation Plan was discussed with EPD in a meeting on September 18, 2014, and EPD subsequently issued comments on VRP Status Reports No. 4 and No. 5 in correspondence dated October 7, 2014 and December 1, 2014. BFEL continues to evaluate the proposed remediation approach based upon the feedback from EPD. A key consideration currently affecting implementation of the revised Remediation Plan is the presence of an up-gradient volatile organic compound (VOC) plume that is impacting a portion of the BFEL site, as discussed in greater detail in this VRP Status Report.

3.0 WORK PERFORMED FROM AUGUST 2015 TO FEBRUARY 2016

The activities currently identified to be performed at the Estech site under the VRP are outlined in the VIRP, dated March 16, 2011, the EPD VIRP approval letter dated February 8, 2012, and the EPD VIRP comment letter dated February 8, 2012. The activities conducted from August 2015 through February 2016 have included semi-annual groundwater and surface water sampling and analysis, and evaluation of a surface water remedy. These activities are described in the following sections.

3.1 Semi-Annual Groundwater Sampling and Analysis

Groundwater samples were collected from 39 permanent monitoring wells located on the Estech and CSX properties from November 10 to 18, 2015 (Figure 1). The following monitoring wells were sampled:

MW-22	MW-25	MW-26	MW-1B	MW-101	MW-102
MW-104A	MW-104D	MW-105	MW-106D	MW-107D	MW-108
MW-109	MW-110	MW-111	MW-112	MW-113	MW-114
MW-115	MW-116	MW-117	MW-119	MW-120	MW-121
TW-1	TW-2	TW-3	TW-4	TW-5	TW-6
TW-7	TW-8	TW-9	TW-10	TW-11	TW-12
OW-1	OW-2	OW-3			

Well MW-21 was dry and was not sampled in November 2015. The PVC casing for well MW-24 was broken off below the ground surface and could not be sampled. A summary of the groundwater sample data are presented on Table 1. The depth to water was measured in the 39 site monitoring wells including those listed above and the groundwater elevations were calculated. The groundwater elevations are summarized on Table 2 and were used to generate the potentiometric surface map on Figure 2. Groundwater analytical results are summarized on Table 3.

The monitoring wells were purged using low flow/low stress methodology and were sampled following Region 4 USEPA Science and Ecosystem Support Division (SESD) procedure SESDPROC-301-R3. Submersible or peristaltic pumps were used to purge the wells. Three well volumes were purged from each well. Water quality parameters pH, conductivity, temperature, turbidity, dissolved oxygen (DO) and oxidation-reduction potential (ORP) were measured and recorded. Groundwater samples were collected after pH, specific conductivity, turbidity, and temperature parameters had stabilized, and the water was visibly free of sediment (Appendix A). In accordance with SESDPROC-301-R3, the groundwater samples were collected using the submersible and peristaltic pumps. The temporary wells TW-1 through TW-12 are one-inch diameter monitoring wells and are purged and sampled using either a submersible bladder or peristaltic pump. The permanent monitoring wells (MWs) are two-inch diameter wells and were purged and sampled with a submersible Grundfos Redi-Flo2 pump. The groundwater samples were collected and analyzed for the following constituents:

- Organochlorine pesticides using USEPA Method 8081A
- Arsenic, Lead, Copper, and Zinc using USEPA Method 6020 (total and dissolved analyses)
- Nitrate and Sulfate using USEPA Method 9056

To further investigate if volatile organic compounds (VOCs) from the upgradient M&J Solvents site are potentially impacting the Estech site, groundwater samples from select monitoring wells were analyzed for VOCs using USEPA method 8260B. The wells sampled and analyzed for VOCs are:

MW-22	MW-25	MW-26	MW-1B	MW-101	MW-102
MW-104A	MW-104D	MW-106D	MW-107D	MW-108	MW-109
MW-110	MW-111	MW-112	MW-113	MW-114	MW-115
MW-116	MW-119	MW-120	MW-121	TW-1	TW-2
TW-3	TW-4	TW-5	TW-6	TW-7	TW-8
TW-9	TW-10	TW-11	TW-12		

3.2 Surface Water Sampling and Analysis

Eight surface water samples were collected on November 18, 2015 from the un-named stream on CSX property. The sample identifications are:

SW-2010-5	SW-2010-10	SW-2010-11	SW-2010-14
SW-2010-15	SW-2010-17	SW2014-20 (seep)	SW2014-21 (seep)

Surface water sample SW-2010-5 was collected in the stream adjacent to well location MW-106D/MW-119. Samples SW-2010-10 and SW-2010-11 were collected from the stream, upstream and downstream, respectively, of the culvert beneath the “pork-barrel” rail line. Samples SW-2010-14, SW-2010-15, and SW-2010-17 were collected in the stream downstream of the culvert and upstream of Marietta Boulevard (Figure 1). Two water samples (SW2014-20 and SW2014-21) were collected in November 2015 from seeps in a drainage feature on the west side of the railroad tracks and upstream of the culvert. The samples were collected from water seeping from the side of the drainage feature. The surface water samples were collected by filling the sample containers directly from the stream. The surface water collection data are summarized on Table 1, analytical results are summarized on Table 4, and the laboratory reports are provided in Appendix A. The surface water samples were analyzed for the following constituents:

- Organochlorine pesticides using USEPA Method 8081A
- Dissolved Arsenic, Lead, Copper, and Zinc using USEPA Method 6020
- Nitrate and Sulfate using USEPA Method 9056

During this sampling event, the elevation of the stream’s surface water was measured at the four staff gauge locations to help better evaluate the groundwater/surface water connectivity.

3.3 Results of the Semi-Annual Groundwater and Surface Water Investigation

The second semi-annual groundwater and surface-water sampling event for 2015 was conducted from November 9 to 18, 2015. The sampling event consisted of measuring the depth to water in monitoring wells, gauging the surface water elevation at four locations along the un-named stream, and sampling and analyzing groundwater samples from monitoring wells and surface water samples from the un-named stream. The interpreted groundwater flow direction and gradients and groundwater and surface water analytical results are discussed below.

3.3.1 Groundwater Flow Direction, Gradients and Velocity

The depth to water was measured in 39 monitoring wells on November 9, 2015 at locations on the Estech and CSX properties. The data were used to generate a potentiometric surface map to evaluate the groundwater flow direction and velocity. The groundwater elevations are summarized on Table 2. The highest elevation was 897.77 feet in well MW-101 and the lowest elevation was 835.41 feet in well MW-107D. The November 2015 groundwater elevations are on average about half a foot lower than the May 2015 elevations and are on average a little over one foot higher than the November 2014 groundwater elevations. Figure 2 is a site potentiometric surface map indicating the groundwater flow direction is from the west side of the Estech property to the east and discharging to the un-named stream. The horizontal gradient across the site is estimated to be 0.036 to 0.045 feet per foot based on the November 2015 potentiometric map. The groundwater seepage velocity was estimated using an average hydraulic conductivity of 0.84 feet /day or $3x10^{-4}$ cm/sec from the residuum soils based on slug tests performed in monitoring wells MW-1, MW-4, MW-12, DW-2A, and MW-22 and a site-specific effective porosity of the residuum of 0.23. An average seepage velocity through residual soils is calculated to be 0.13 to 0.16 feet per day or 48 to 60 feet per year.

The vertical gradients were evaluated in monitoring well pairs MW-104A/MW-104D, MW-110/ MW-111, MW-106D/MW-121, and MW-119/MW-120. The vertical gradients were calculated by dividing the difference in the groundwater elevations by the distance between the mid-points of each well's screen. There was very little difference in the groundwater elevations in well pair MW-104A/MW-104D with a slight downward gradient of 0.0008 feet/foot. A downward gradient (0.2 and 0.15 feet/foot) from the residual soil to the fractured bedrock was present at well pairs MW-110/MW-111 and MW-119/MW-120, respectively. There was also a downward gradient (0.3 feet/foot) at well pair MW-106D/MW-121. The groundwater elevation in well MW-121 (865.04 feet), screening the uppermost fractured bedrock next to the un-named stream was two feet higher than the surface water elevation (862.74 feet) in the stream next to the well pair. The groundwater elevation in well MW-106D (853.42 feet), screening a deeper depth in the fractured bedrock was about 9 feet lower than the surface water elevation. The surface water elevation (840.41 feet) at Staff Gauge #3 was about 10 feet lower than the groundwater elevation in well MW-119 (850.56 feet) and was just under 8 feet lower in elevation than the groundwater elevation (848.36 feet) in bedrock well MW-120. The groundwater elevation in well MW-107D (835.41) is about 0.9 feet lower than the stream elevation at Staff Gauge #4 (836.35 feet). The data indicate groundwater in the deep residual soil, soil/bedrock interface, and shallow fractured

bedrock discharges to the stream. Groundwater in the deeper bedrock does not appear to be in communication with the surface water.

3.3.2 Groundwater Analytical Results for Estech Site Constituents

Groundwater samples were collected from the new and existing monitoring wells and analyzed for organochlorine pesticides, total and dissolved arsenic, copper, lead, zinc, total nitrate and sulfate. The BHC isomers were the predominant pesticides detected with beta-BHC being detected most often in the November samples. Copper and zinc were the predominant metals detected, followed by lead. The dissolved metal concentrations were similar, though generally lower than the total metals concentrations. Nitrate and sulfate were also detected. Monitoring well TW-8 had the highest pesticide concentrations. Well TW-7 had the highest metals. Well TW-7 also had the highest nitrate and sulfate concentrations in the November 2015 event.

The groundwater analytical results are summarized on Table 3, and the laboratory reports are provided in Appendix A. Total copper concentrations ranged from 0.00226 to 131 mg/L while dissolved copper ranged from 0.00207 to 122 mg/L. Total zinc concentrations ranged from 0.01 to 260 mg/L while dissolved zinc ranged from 0.0107 to 254 mg/L. Figure 3 presents the metals data for the monitoring wells from November 2015. The metals in groundwater are delineated based on the Type 1 RRS as shown on Figure 3. The groundwater plume as indicated on Figure 3 is located on the northern and eastern portions of the Estech property and the CSX property abutting the Estech eastern property boundary. The data indicates the lower pH readings generally correlate to higher metals concentrations, particularly copper and zinc. The lower pH groundwater coincides with groundwater metals concentrations that are greater than the Type 1 RRS. The copper and zinc concentrations above the Type 1 RRS are primarily located on the eastern portion of the Estech property and the western portion of the CSX property adjacent to Estech, and north of well MW-117 and south of wells MW-104A/MW-104D. Metals concentrations in groundwater on the western and southern portions of the Estech property and on the eastern portion of the CSX property near the stream are either non-detect or below the Type 1 RRS. Downgradient wells (MW-105, MW-106D, MW-107D, MW-117, MW-119, MW-120, and MW-121) adjacent to the stream are less than Type 1 RRS. The area with metal concentrations above the Type 1 RRS is bounded by areas that are either non-detect or below the Type 1 RRS. Generally, the surface water concentrations were less than the site groundwater concentrations.

Total and dissolved arsenic and lead were also analyzed in the groundwater samples. Arsenic and lead concentrations were either non-detect or slightly above the Type 1 RRS and were generally less than the copper and zinc concentrations (Table 3). The total arsenic concentrations ranged from 0.00521 to 0.116 mg/L, while the dissolved concentrations ranged from 0.00604 to 0.112 mg/L. The total lead concentrations ranged from 0.00101 to 0.901 mg/L, while the dissolved concentrations ranged from 0.00106 to 0.71 mg/L. The extent of arsenic and lead in groundwater is defined based on Type 1 RRS values (Figure 3).

Pesticides in groundwater are generally delineated based on Type 1 RRS values, as is shown on Figure 4. One to four of the BHC isomers were detected in 28 wells across the site. Alpha-

BHC concentrations ranged from 0.00016 to 0.58 mg/L. Beta-BHC concentrations ranged from 0.00029 to 0.087 mg/L. Delta-BHC concentrations ranged from 0.000052 to 1.2 mg/L while gamma-BHC concentrations ranged from 0.00012 to 0.0041 mg/L. The November 2015 BHC concentrations are higher than the May 2015 concentrations. BHC concentrations in well TW-8 increased from November 2014 to November 2015, but were less than the 2012 to January 2014 concentrations. Pesticides were detected for the first time in wells TW-10 and TW-11 in November 2015, the wells had been non-detect for the previous five to six sampling events. Pesticides were not detected in well MW-121 during the November 2015 event, but had pesticide concentrations in the previous six events. There were five detections of DDD and dieldrin, one of DDE and three detects of DDT, and one detection of each alpha- and gamma-Chlordane. Wells TW-1, TW-8, OW-1, OW-2, and MW-108 had DDD, DDE, and DDT concentrations ranging from 0.00011 to 0.0046 mg/L. Dieldrin was detected at 0.00012 to 0.0041 mg/L in wells TW-1, TW-4, TW-8, TW-9, and TW-11 with wells TW-1, TW-4, TW-8, and TW-9 having had past detections of dieldrin. The November 2015 DDE, and DDT concentrations were lower than the May-June 2015 concentrations while the November 2015 DDD and dieldrin concentrations were slightly higher than the last event. BFEL is looking into sampling a monitoring well located on the upgradient Whitaker property for pesticides which could accomplish the objective of delineating pesticides west of well TW-1.

The November 2015 total pesticide concentrations showed an increase from the May-June 2015 concentrations by an amount ranging from 0.00012 to 0.18 mg/L. The total metals concentrations in the November 2015 groundwater samples were lower than the May-June 2015 concentrations.

Nitrate and sulfate do not have Type 1 RRS because they are not regulated constituents under HSRA or VRP. The extent of nitrate and sulfate in groundwater is shown on Figure 5. The higher sulfate concentrations generally coincide with lower pH values and higher metals concentrations in the groundwater. Nitrate concentrations in November 2015 ranged from 0.37 to 110 mg/L and were higher than the May-June 2015 results. Sulfate concentrations in November 2015 ranged from 21 to 3600 mg/L and were higher than the May-June 2015 results with wells TW-6 and TW-7 having the highest concentrations, respectively.

3.3.3 Groundwater Analytical Results for Volatile Organic Compounds

In November 2015, 34 monitoring wells on the Estech and CSX properties were sampled and analyzed for VOCs (Table 5). The sampling was conducted at the request of EPD because of concern that a pump-and-treat remediation could potentially pull the M&J Solvents site VOC groundwater plume toward or onto the Estech property. This is the second site-wide sampling for VOCs on the Estech site. The purpose of this sampling was to further evaluate the extent of VOCs, previously detected in November 2014 and June 2015 on the Estech property, from the M&J Solvent site and their potential impact on the construction of an Estech site pump-and-treat remediation system. Monitoring wells located across the Estech property and wells on the CSX property associated with the Estech pesticide and metals plumes were sampled and analyzed. The November 2015 data indicated the M&J Solvent site VOC groundwater plume was present

across the northern third of the Estech property, but did not appear to be present south of well TW-3. Figure 6 indicates the horizontal extent of the VOCs detected in Estech monitoring wells.

As shown on Figure 6, potentiometric surface contours indicate groundwater on the M&J Solvents site is flowing radially to the east, southeast, south, and southwest while the Estech property groundwater flow is from the west to the east toward the stream. The M&J site potentiometric surface contours show groundwater flow toward the un-named stream and generally toward the northern Estech property boundary. However, there are no groundwater wells or elevation data from the southern portion of the Whitaker Oil site to confirm the direction of groundwater flow from the southern portion of the Whitaker Oil property in relation to the Estech property. Fifteen VOCs were detected and included benzene, toluene, xylenes (BTEX), to chlorinated VOCs (trichloroethene, tetrachloroethene, cis-1,2-dichloroethene, and vinyl chloride) to ketones (acetone, 2-butanone and 4-methyl-2-pentanone) (Table 5). Well MW-104D, located on CSX property and sidegradient to the Estech property, but directly downgradient of M&J Solvents had the highest concentrations of VOCs with the ketones comprising the majority of the constituents. Wells MW-113 and MW-120, also on CSX property and downgradient of M&J, had elevated VOCs, mostly chlorinated VOCs. Wells MW-22, TW-1, TW-2, and TW-3, located on Estech and downgradient of M&J also had elevated concentrations of chlorinated VOCs. The VOC impact to these 8 wells is very likely from the M&J Solvent site.

Well TW-8 located in the former pond area of Estech had detections of benzene, 1,2,4-trichlorobenzene, and chlorobenzene. Wells TW-9 and MW-111 also in the pond area had detections of chlorobenzene. Well TW-3 also had a low detection of chlorobenzene and is side gradient to wells TW-8, TW-9, and MW-111. Wells MW-112, MW-26, and MW-101 did not detect VOCs and are generally upgradient of wells TW-8, TW-9 and MW-111. There are several wells surrounding TW-8, TW-9 and MW-111 that are non-detect for VOCs (Figure 6). Bedrock well MW-110 was also non-detect for VOCs.

3.3.4 Surface Water Analytical Results

Eight surface water samples were collected from the un-named stream in November 2015 and analyzed for site constituents. The four metals were analyzed for dissolved phase concentrations. BHCs, dieldrin, arsenic, copper, zinc, nitrate, and sulfate were detected. The analytical results are summarized on Table 4. The BHCs ranged in concentrations of alpha-BHC 0.059 to 0.33 µg/L, beta-BHC 0.064 to 2.2 µg/L, delta-BHC 0.024J to 0.17 µg/L, and gamma-BHC 0.013J to 0.16 µg/L based on a laboratory quantitation limit of 0.05 µg/L. The November 2015 BHC concentrations were slightly lower, but similar to the May-June 2015 concentrations. Dieldrin was not detected above the laboratory reporting limit of 0.1 µg/L, but was above the method detection limit of 0.0072 µg/L and DDT was not detected above the reporting limit of 0.1 µg/L, but was slightly above the method detection limit of 0.0063 µg/L in November 2015.

The November 2015 dissolved metals concentrations were similar to the May-June 2015 concentrations, but slightly lower. Dissolved arsenic was below the laboratory reporting limit of 0.005 mg/L in the eight samples. Dissolved copper was detected at concentrations ranging from 0.0063 to 0.327 mg/L, and dissolved zinc was detected at concentrations ranging from 0.381 to

6.35 mg/L. Lead was not detected. Nitrate was detected at 1.3 to 7.6 mg/L, sulfate was detected at 97 to 310 mg/L, and both were similar to the May-June 2015 concentrations. The SW-2014-20 and SW2014-21 samples were collected from water seeping from the west bank of the drainage feature on the west side of the railroad tracks upstream of the culvert and had higher concentrations for BHCs, copper and zinc than the six samples collected downstream from the main channel of the stream.

Dissolved copper and zinc concentrations are greater than the Georgia Instream Water Quality Criteria (ISWQC) for aquatic life receptors (Table 4) and are less than the human health criteria. The nitrate concentrations were less than the human health criteria (Table 4), and there are no criteria for aquatic receptors. There are no criteria for sulfate. Constituent concentrations in samples (SW2010-5 and SW-2010-10) collected upstream of the railroad culvert on the east side of the railroad track are lower than the concentrations of samples (SW2010-11 to SW2010-17) collected downstream of the railroad culvert on the west side of the tracks. The highest concentrations were detected at seep sample locations (SW2014-20 and SW2014-21), and main stream channel surface water samples SW2010-14 to SW2010-17. The drainage feature that branches off the main channel upstream of the culvert on the west side of the tracks may be a point of discharge for elevated concentrations of site contaminants, particularly zinc. The un-named stream located on CSX property is not an exposure point for human receptors because the stream is not a source of drinking water, is not accessible to the public, and does not have habitat for a fishery for human consumption. Aquatic receptors are more likely to be exposed to the stream than to humans and the aquatic life water quality criteria are the more appropriate criteria.

The concentrations were compared to the Georgia In-stream Water Quality Criteria (ISWQC) for aquatic life and human health receptors. Concentrations of alpha and beta-BHC, DDT and dieldrin are greater than the criteria for human health. The gamma-BHC concentrations were less than the criteria for human and aquatic exposures. The dissolved arsenic concentrations are below the aquatic and human health criteria while the copper and zinc are above the aquatic criteria. The chart below summarizes the information.

Detected Constituent	**Georgia ISWQC (Aquatic)**	**Georgia ISWQC (Human Health)**	**November 2015 Concentrations**	**Status with Georgia ISWQC (Aquatic)**	**Status with Georgia ISWQC (Human Health)**
alpha-BHC	No criteria	0.0049 µg/L	0.059-0.33 µg/L	No criteria	Exceeds
beta-BHC	No criteria	0.017 µg/L	0.064-2.2 µg/L	No criteria	Exceeds
gamma-BHC	0.95 µg/L	1.8 µg/L	0.013J-0.16 µg/L	Complies	Complies
delta-BHC	No criteria	No criteria	0.024J-0.17 µg/L	No criteria	No criteria

Detected Constituent	Georgia ISWQC (Aquatic)	Georgia ISWQC (Human Health)	November 2015 Concentrations	Status with Georgia ISWQC (Aquatic)	Status with Georgia ISWQC (Human Health)
DDT	0.001 µg/L	0.00022 µg/L	0.0068J µg/L	Exceeds	Exceeds
Dieldrin	0.056 µg/L	0.000054	0.014J-0.041J µg/L	Complies	Exceeds
Dissolved Arsenic	0.15 mg/L*	0.01 mg/L	0.00018J-0.00212J mg/L	Complies	Complies
Dissolved Copper	0.0158 mg/L*	1.3 mg/L	0.0063-0.327 mg/L	Exceeds	Complies
Dissolved Lead	0.0052 mg/L*	No criteria	<0.000309	Complies	No criteria
Dissolved Zinc	0.208 mg/L*	7.4 mg/L	0.389-6.67 mg/L	Exceeds	Complies
Nitrate	No criteria	10 mg/L	1.3J-7.6 mg/L	No criteria	Complies
Sulfate	No criteria	No criteria	97-310 mg/L	No criteria	No criteria

ISWQC = In-stream Water Quality Criteria 391-3-6-.03

‘* = adjusted for stream hardness

The November 2015 data was also evaluated using concentrations normalized based on annual average stream flow. Appendix B provides an explanation of the evaluation method and the calculations for normalizing the concentrations. The pesticides and arsenic have annual average or higher flow criteria under the Georgia ISWQC. The normalized pesticides concentrations, like the un-normalized pesticide concentrations are above the human health criteria.

3.4 Revised Remediation Approach

BFEL and Amec Foster Wheeler representatives met with EPD representatives on September 18, 2014 to discuss the proposed revised Remediation Plan presented in VRP Status Report No. 5. The revised Remediation Plan called for a groundwater recirculating system with a limestone infiltration gallery treatment process. The recirculating system would capture contaminated groundwater, treat the water by raising the pH and allow the treated water to reinfiltrate back into the subsurface to help flush contaminants in soil and groundwater toward the pumping-induced capture zone while raising the pH in the subsurface soil and groundwater to reduce solubility and mobility of dissolved constituents, particularly zinc. A surficial limestone PRB was also proposed to be installed at the seep area and drainage feature near the unnamed stream on CSX property. A Type 5 Risk Reduction Standard was proposed to address impacted soil via engineering and institutional controls to limit human exposure potential until a viable re-use for

the property is identified. EPD expressed concerns that a pump-and-treat system on the Estech property could pull the M&J Solvents site VOCs groundwater plume toward/onto the downgradient Estech property. Currently, groundwater remediation to control migration is not being conducted at the M&J site. In the meeting and subsequent comment letters, EPD suggested reviewing current groundwater data from the M&J site and careful evaluation of the Estech proposed groundwater recovery wells location, depths and screened intervals. As discussed earlier, additional groundwater sampling for VOCs was conducted on the Estech property in May-June and November 2015 and confirmed VOC impacts on the Estech property (Figure 6).

A laboratory bench-scale treatability study was conducted in May and June 2015 to evaluate the feasibility and effectiveness of the limestone and bio-available adsorbent carbon media (BAM) treatment processes. The treatability study was presented in Status Report No. 7 (August 2015). The limestone was batch tested for treatment of metals and pesticides in both groundwater and surface water while the BAM was batch tested for treatment of metals, pesticides and VOCs in groundwater. Groundwater and surface water collected from the site were used to test the limestone and BAM. The limestone raised the pH of the groundwater and surface water and reduced the metals concentrations, with copper concentrations showing the greatest reductions in the surface water. Pesticide concentrations also showed reductions in response to the limestone in the surface water. The BAM reduced metals concentrations, but at a lesser percentage than the limestone. However, the BAM showed a greater percentage reduction in pesticide concentrations than the limestone in the groundwater. The BAM also reduced VOC concentrations in groundwater. The limestone and BAM used in combination appear to have applicability as a treatment process for the constituents present in groundwater at the site.

The results of the bench-scale treatability study appear favorable for raising the pH of the water and treating metals. The surficial limestone PRB installation proposed for installation along the seep area on the west bank of the CSX stream could proceed, as it will not negatively affect migration of the VOC plume.

BFEL also continues to evaluate other potential in-situ remedies. BFEL continues to evaluate the most appropriate plan for implementation of remediation so as not to exacerbate the up-gradient VOC impacts.

4.0 WORK TO BE PERFORMED

On-going activities include semi-annual groundwater and surface water monitoring and reporting. Additional activities include pilot testing and further evaluation of the design for the proposed active remedial measures previously proposed in light of the upgradient VOC groundwater plume. The sections below describe the status of the activities yet to be performed. Figure 7 is the updated Gantt Chart Schedule of VRP Activities.

4.1 Groundwater and Surface Sampling and Analysis

Groundwater and surface water samples will be collected in April-May 2016 as part of the next semi-annual monitoring event for the site. The following existing and new monitoring wells located on CSX property will be sampled and analyzed for site constituents:

MW-22	MW-25	MW-26	MW-1B	MW-101	MW-102
MW-104A	MW-104D	MW-105	MW-106D	MW-107D	MW-108
MW-109	MW-110	MW-111	MW-112	MW-113	MW-114
MW-115	MW-116	MW-117	MW-119	MW-120	MW-121
TW-1 to TW-12		OW-1 to OW-3			

Constituents to be analyzed: Organochlorine Pesticides, Total and Dissolved Metals (Arsenic, Lead, Copper, Zinc), Nitrate, and Sulfate, and VOCs.

Surface Water Sampling and Analysis

Eight to ten surface water locations in the un-named stream located on CSX property will be sampled and analyzed for the site constituents:

SW2010-5 SW2010-10 SW2010-11 SW2010-14 SW2010-15 SW2010-17 SW2014-20 SW2014-21

Constituents analyzed: Organochlorine Pesticides, Dissolved Metals (Arsenic, Lead, Copper, and Zinc), Nitrate, and Sulfate.

4.2 Pilot Testing

Plans to conduct pilot tests to assist with the design of the proposed pump-and-treat recirculation system are currently on hold due to the VOC impacts from the up-gradient M&J Solvent site. BFEL believes that it is premature to move forward with this approach without a better understanding of remediation plans for the M&J Solvent site. However, at this time BFEL plans to proceed with installation of the surficial limestone PRB as a pilot test to provide additional data to evaluate the efficacy of the limestone/pH adjustment treatment concept and its future use to address other portions of the site. The use of a carbon reactive mat to line the limestone channel and assist in pesticide treatment is also planned. It is estimated to take approximately a year following installation to evaluate the performance of the surficial PRB and its effects on surface water quality. Therefore, an extension to the 5-year VRP implementation period is necessary due to the changing remediation plans and up-gradient impacts from M&J Solvent. BFEL would like to schedule a meeting with EPD to further discuss the path forward and schedule.

4.3 Surficial Permeable Reactive Barrier

Upon concurrence from EPD with the revised Remediation Plan, BFEL proposes to contact CSX and begin negotiations to obtain access to their property to construct the pilot PRB. Additionally, Amec Foster Wheeler believes that the drainage swale/stream, is classified as a State Water. The proposed project will include minor excavation of the swale/stream bed soils, installing the reactive blanket, and restoring the area adjacent to the blanket disturbed during construction. Therefore, the proposed construction will require an approved stream buffer variance from the EPD.

Amec Foster Wheeler will prepare the 25-foot buffer encroachment application package for signature by the owner of the project based on the Erosion, Sedimentation and Pollution Control Plan and the Design Drawings for the remediation project and submit the buffer encroachment application package to EPD for review.

In addition to the stream buffer variance permit, a U.S. Army Corps of Engineers (USACE) Section 404 permit will be required. A jurisdictional waters delineation and Pre-Construction Notification (PCN) will be prepared for submittal to USACE.

Amec Foster Wheeler expects that the proposed activities can be authorized under the USACE Nationwide Permit (NWP) program. Potential impacts to jurisdictional waters may be authorized under NWP 38 (cleanup of hazardous and toxic waste). The discharge must not cause the loss of greater than ½ acre of non-tidal waters of the United States, including the loss of no more than 300 linear feet of stream bed. Assuming that project impacts are determined to be less than 0.1 acre of wetlands and 100 linear feet of stream, no compensatory mitigation will be required as a part of the PCN.

4.4 Groundwater Pesticide Delineation

BFEL will work with Whitaker Oil Company to obtain access to sample and analyze their MW-WO-1 monitoring well in an attempt to complete the delineation of pesticides detected in well TW-1.

5.0 PROFESSIONAL SERVICES HOURS THIS PERIOD

Approximately 386.6 professional service hours have been provided by Amec Foster Wheeler Environment & Infrastructure, Inc. from July 25, 2015 through January 22, 2016. A table of the breakdown of Amec Foster Wheeler hours by month along with a description of the services provided is presented on Table 6. The registered professional engineer responsible for implementation of the VRP at this site is Mr. Gregory Wrenn. Mr. Wrenn has personally charged 25.5 labor hours to the project to direct and review the various aspects of implementation of the VRP during this reporting period.

TABLES

TABLE 1: SUMMARY OF SOIL AND WATER COLLECTION DATA

AREA SAMPLED	BORINGS	TOTAL BORING/TOTAL WELL DEPTHS (FT, BGS FT, BTOC)	GROUND SURFACE ELEVATION (FT, NGVD)	SAMPLE DEPTHS PER BORING (FT, BGS)	SAMPLE IDENTIFICATION	MEDIA	ANALYSES PER SAMPLE	SAMPLE DATE	RATIONALE
TW-1	Well TW-1	23.0	890.8/892.99*	12.5-22.5	TW-1-053012	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	5/30/2012	New well to investigate Copper and Zinc in groundwater
							Pesticides		
							Nitrate and Sulfate		
TW-1	Well TW-1	23.0	890.8/892.99*	12.5-22.5	TW-1		Total and Dissolved As, Cu, Pb, and Zn	5/29/2013	site-wide groundwater monitoring
		24.9 btoc					Pesticides		
							Nitrate and Sulfate		
TW-1	Well TW-1	23.0	890.8/892.99*	12.5-22.5	TW-1		Total and Dissolved As, Cu, Pb, and Zn	11/13/2013	site-wide groundwater monitoring
		24.9 btoc					Pesticides		
							Nitrate and Sulfate		
TW-1	Well TW-1	23.0	890.8/892.99*	12.5-22.5	TW-1		Total and Dissolved As, Cu, Pb, and Zn	5/14/2014	site-wide groundwater monitoring
		24.9 btoc					Pesticides		
							Nitrate and Sulfate		
TW-1	Well TW-1	23.0	890.8/892.99*	12.5-22.5	TW-1		Total and Dissolved As, Cu, Pb, and Zn	11/12/2014	site-wide groundwater monitoring
		24.9 btoc					Pesticides		
							Nitrate and Sulfate		
TW-1	Well TW-1	23.0	890.8/892.99*	12.5-22.5	TW-1		Total and Dissolved As, Cu, Pb, and Zn	5/28/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		24.9 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
TW-1	Well TW-1	23.0	890.8/892.99*	12.5-22.5	TW-1		Total and Dissolved As, Cu, Pb, and Zn	11/11/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		24.6 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
TW-2	Well TW-2	27.2	895.5/897.90*	17-27	TW-2-053012		Total and Dissolved As, Cu, Pb, and Zn	5/30/2012	New well to investigate Copper and Zinc in groundwater
							Pesticides		
							Nitrate and Sulfate		
TW-2	Well TW-2	27.2	895.5/897.90*	17-27	TW-2		Total and Dissolved As, Cu, Pb, and Zn	5/29/2013	site-wide groundwater monitoring
		29.2 btoc					Pesticides		
							Nitrate and Sulfate		
TW-2	Well TW-2	27.2	895.5/897.90*	17-27	TW-2		Total and Dissolved As, Cu, Pb, and Zn	11/14/2013	site-wide groundwater monitoring
		29.1 btoc					Pesticides		
							Nitrate and Sulfate		
TW-2	Well TW-2	27.2	895.5/897.90*	17-27	TW-2		Total and Dissolved As, Cu, Pb, and Zn	5/14/2014	site-wide groundwater monitoring
		29.1 btoc					Pesticides		
							Nitrate and Sulfate		
TW-2	Well TW-2	27.2	895.5/897.90*	17-27	TW-2		Total and Dissolved As, Cu, Pb, and Zn	11/12/2014	site-wide groundwater monitoring
		29.1 btoc					Pesticides		
							Nitrate and Sulfate		
TW-2	Well TW-2	27.2	895.5/897.90*	17-27	TW-2		Total and Dissolved As, Cu, Pb, and Zn	5/28/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		29.1 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
TW-2	Well TW-2	27.2	895.5/897.90*	17-27	TW-2		Total and Dissolved As, Cu, Pb, and Zn	11/12/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		29.1 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
TW-3	Well TW-3	36.6	893.9/897.44*	26.4-36.4	TW-3-053112		Total and Dissolved As, Cu, Pb, and Zn	5/31/2012	New well to investigate Copper and Zinc in groundwater
							Pesticides		
							Nitrate and Sulfate		
TW-3	Well TW-3	36.6	893.9/897.44*	26.4-36.4	TW-3		Total and Dissolved As, Cu, Pb, and Zn	5/30/2013	site-wide groundwater monitoring
		39.9 btoc					Pesticides		
							Nitrate and Sulfate		
TW-3	Well TW-3	36.6	893.9/897.44*	26.4-36.4	TW-3		Total and Dissolved As, Cu, Pb, and Zn	11/14/2013	site-wide groundwater monitoring
		39.8 btoc					Pesticides		
							Nitrate and Sulfate		

TABLE 1: SUMMARY OF SOIL AND WATER COLLECTION DATA

TW-3	Well TW-3	36.6	893.9/897.44*	26.4-36.4	TW-3	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	5/15/2014	site-wide groundwater monitoring
		39.8 btoc					Pesticides		
							Nitrate and Sulfate		
TW-3	Well TW-3	36.6	893.9/897.44*	26.4-36.4	TW-3		Total and Dissolved As, Cu, Pb, and Zn	11/13/2014	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		39.8 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
TW-3	Well TW-3	36.6	893.9/897.44*	26.4-36.4	TW-3		Total and Dissolved As, Cu, Pb, and Zn	1615/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		39.8 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		Sampled for treatability study of VOCs
TW-3	Well TW-3	36.6	893.9/897.44*	26.4-36.4	TW-3		Total and Dissolved As, Cu, Pb, and Zn	11/12/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		39.8 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
TW-4	Well TW-4	32.3	897.2/899.36*	21.8-31.8	TW-4-053112		Total and Dissolved As, Cu, Pb, and Zn	5/31/2012	New well to investigate Copper and Zinc in groundwater
							Pesticides		
							Nitrate and Sulfate		
TW-4	Well TW-4	32.3	897.2/899.36*	21.8-31.8	TW-4		Total and Dissolved As, Cu, Pb, and Zn	5/30/2013	site-wide groundwater monitoring
		33.6 btoc					Pesticides		
							Nitrate and Sulfate		
TW-4	Well TW-4	32.3	897.2/899.36*	21.8-31.8	TW-4		Total and Dissolved As, Cu, Pb, and Zn	11/15/2013	site-wide groundwater monitoring
		33.5 btoc					Pesticides		
							Nitrate and Sulfate		
TW-4	Well TW-4	32.3	897.2/899.36*	21.8-31.8	TW-4		Total and Dissolved As, Cu, Pb, and Zn	5/15/2014	site-wide groundwater monitoring
		33.5 btoc					Pesticides		
							Nitrate and Sulfate		
TW-4	Well TW-4	32.3	897.2/899.36*	21.8-31.8	TW-4	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	11/13/2014	site-wide groundwater monitoring
		33.5 btoc					Pesticides		
							Nitrate and Sulfate		
TW-4	Well TW-4	32.3	897.2/899.36*	21.8-31.8	TW-4		Total and Dissolved As, Cu, Pb, and Zn	11/13/2014	site-wide groundwater monitoring
		33.5 btoc					Pesticides		
							Nitrate and Sulfate		
TW-4	Well TW-4	32.3	897.2/899.36*	21.8-31.8	TW-4		Total and Dissolved As, Cu, Pb, and Zn	5/29/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		33.5 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
TW-4	Well TW-4	32.3	897.2/899.36*	21.8-31.8	TW-4		Total and Dissolved As, Cu, Pb, and Zn	11/12/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		33.5 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
TW-5	Well TW-5	30.0	888.8/891.89*	19.8-29.8	TW-5-053012		Total and Dissolved As, Cu, Pb, and Zn	5/30/2012	New well to investigate Copper and Zinc in groundwater
							Pesticides		
							Nitrate and Sulfate		
TW-5	Well TW-5	30.0	888.8/891.89*	19.8-29.8	TW-5		Total and Dissolved As, Cu, Pb, and Zn	5/29/2013	site-wide groundwater monitoring
		29.8 btoc					Pesticides		
							Nitrate and Sulfate		
TW-5	Well TW-5	30.0	888.8/891.89*	19.8-29.8	TW-5		Total and Dissolved As, Cu, Pb, and Zn	11/15/2013	site-wide groundwater monitoring
		32.5 btoc					Pesticides		
							Nitrate and Sulfate		
TW-5	Well TW-5	30.0	888.8/891.89*	19.8-29.8	TW-5		Total and Dissolved As, Cu, Pb, and Zn	5/21/2014	site-wide groundwater monitoring
		31.5 btoc					Pesticides		
							Nitrate and Sulfate		
TW-5	Well TW-5	30.0	888.8/891.89*	19.8-29.8	TW-5	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	11/13/2014	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		31.9 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
TW-5	Well TW-5	30.0	888.8/891.89*	19.8-29.8	TW-5		Total and Dissolved As, Cu, Pb, and Zn	6/1/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		31.9 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
TW-5	Well TW-5	30.0	888.8/891.89*	19.8-29.8	TW-5		Total and Dissolved As, Cu, Pb, and Zn	11/13/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		32.3 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		

TABLE 1: SUMMARY OF SOIL AND WATER COLLECTION DATA

TW-6	Well TW-6	37.9	905.8/908.33*	27.7-37.7	TW-6-053012	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	5/30/2012	New well to investigate Copper and Zinc in groundwater
							Pesticides		
							Nitrate and Sulfate		
TW-6	Well TW-6	37.9	905.8/908.33*	27.7-37.7	TW-6		Total and Dissolved As, Cu, Pb, and Zn	5/29/2013	site-wide groundwater monitoring
		39.9 btoc					Pesticides		
							Nitrate and Sulfate		
TW-6	Well TW-6	37.9	905.8/908.33*	27.7-37.7	TW-6		Total and Dissolved As, Cu, Pb, and Zn	11/18/2013	site-wide groundwater monitoring
		39.9 btoc					Pesticides		
							Nitrate and Sulfate		
TW-6	Well TW-6	37.9	905.8/908.33*	27.7-37.7	TW-6		Total and Dissolved As, Cu, Pb, and Zn	5/21/2014	site-wide groundwater monitoring
		39.9 btoc					Pesticides		
							Nitrate and Sulfate		
TW-6	Well TW-6	37.9	905.8/908.33*	27.7-37.7	TW-6		Total and Dissolved As, Cu, Pb, and Zn	11/14/2014	site-wide groundwater monitoring
		39.9 btoc					Pesticides		
							Nitrate and Sulfate		
TW-6	Well TW-6	37.9	905.8/908.33*	27.7-37.7	TW-6		Total and Dissolved As, Cu, Pb, and Zn	6/1/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		39.9 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
TW-6	Well TW-6	37.9	905.8/908.33*	27.7-37.7	TW-6		Total and Dissolved As, Cu, Pb, and Zn	11/16/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		39.9 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
TW-7	Well TW-7	31.0	897.9/899.22*	20.8-30.8	TW-7-060112	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	6/1/2012	New well to investigate Copper and Zinc in groundwater
							Pesticides		
							Nitrate and Sulfate		
TW-7	Well TW-7	31.0	897.9/899.22*	20.8-30.8	TW-7		Total and Dissolved As, Cu, Pb, and Zn	5/28/2013	site-wide groundwater monitoring
		32.3 btoc					Pesticides		
							Nitrate and Sulfate		
TW-7	Well TW-7	31.0	897.9/899.22*	20.8-30.8	TW-7		Total and Dissolved As, Cu, Pb, and Zn	11/19/2013	site-wide groundwater monitoring
		32.3 btoc					Pesticides		
							Nitrate and Sulfate		
TW-7	Well TW-7	31.0	897.9/899.22*	20.8-30.8	TW-7		Total and Dissolved As, Cu, Pb, and Zn	5/22/2014	site-wide groundwater monitoring
		32.3 btoc					Pesticides		
							Nitrate and Sulfate		
TW-7	Well TW-7	31.0	897.9/899.22*	20.8-30.8	TW-7		Total and Dissolved As, Cu, Pb, and Zn	11/18/2014	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		32.3 btoc					Pesticides		
							Site-Specific VOCs		
							Nitrate and Sulfate		
TW-7	Well TW-7	31.0	897.9/899.22*	20.8-30.8	TW-7		Total and Dissolved As, Cu, Pb, and Zn	6/5/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL Sampled for treatability study of Metals in GW
		32.3 btoc					Pesticides		
							Site-Specific VOCs		
							Nitrate and Sulfate		
TW-7	Well TW-7	31.0	897.9/899.22*	20.8-30.8	TW-7		Total and Dissolved As, Cu, Pb, and Zn	11/17/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		32.2 btoc					Pesticides		
							Site-Specific VOCs		
							Nitrate and Sulfate		
TW-8	Well TW-8	29.2	899.3/900.36*	19-29	TW-8-053112	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	5/31/2012	New well to investigate Copper and Zinc in groundwater
							Pesticides		
							Nitrate and Sulfate		
TW-8	Well TW-8	29.2	899.3/900.36*	19-29	TW-8-12113		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	1/21/2013	site-wide groundwater monitoring and parameters for EHC injection pilot study Base line sampling prior to EHC injection
							Pesticides		
							Chloride, Nitrate, Nitrite, and Sulfate		
							Total and Dissolved Organic Cabon		
							Total Alkalinity		
TW-8	Well TW-8	29.5	899.2/900.36*	19-29	TW-8-04-15-2013		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	4/15/2013	site-wide groundwater monitoring and parameters for EHC injection pilot study 1st quarter sampling after EHC injection
							Pesticides		
							Chloride, Nitrate, Nitrite, and Sulfate		
							Total and Dissolved Organic Cabon		
							Total Alkalinity		
TW-8	Well TW-8	29.5	899.2/900.36*	19-29	TW-8-07-16-2013		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	7/16/2013	site-wide groundwater monitoring and parameters for EHC injection pilot study 2nd quarter sampling after EHC injection
							Pesticides		
							Chloride, Nitrate, Nitrite, and Sulfate		
							Total and Dissolved Organic Cabon		
							Total Alkalinity		

TABLE 1: SUMMARY OF SOIL AND WATER COLLECTION DATA

TW-8	Well TW-8	29.5	899.2/900.36*	19-29	TW-8-10-9-2013	Groundwater	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	10/9/2013	site-wide groundwater monitoring and parameters for EHC injection pilot study 3rd quarter sampling after EHC injection
							Pesticides		
							Chloride, Nitrate, Nitrite, and Sulfate		
							Total and Dissolved Organic Cabon		
							Total Alkalinity		
TW-8	Well TW-8	29.5	899.2/900.36*	19-29	TW-8-10814		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	1/8/2014	site-wide groundwater monitoring and parameters for EHC injection pilot study 4th quarter sampling after EHC injection
							Pesticides		
							Chloride, Nitrate, Nitrite, and Sulfate		
							Total and Dissolved Organic Carbon		
							Total Alkalinity		
TW-8	Well TW-8	29.9	899.2/900.36*	19-29	TW-8		Total and Dissolved As, Cu, Pb, and Zn	5/19/2014	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
TW-8	Well TW-8	29.9	899.2/900.36*	19-29	TW-8		Total and Dissolved As, Cu, Pb, and Zn	11/14/2014	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
TW-8	Well TW-8	29.9	899.2/900.36*	19-29	TW-8		Total and Dissolved As, Cu, Pb, and Zn	6/2/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL Sampled for treatability study of Pesticides
							Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
TW-8	Well TW-8	29.9	899.2/900.36*	19-29	TW-8		Total and Dissolved As, Cu, Pb, and Zn	11/13/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		29.9 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
TW-9	Well TW-9	33.2	899.2/901.56*	23-33	TW-9-053112		Total and Dissolved As, Cu, Pb, and Zn	5/31/2012	New well to investigate Copper and Zinc in groundwater
							Pesticides		
							Nitrate and Sulfate		
TW-9	Well TW-9	33.2	899.2/901.56*	23-33	TW-9		Total and Dissolved As, Cu, Pb, and Zn	5/28/2013	site-wide groundwater monitoring
		35.0 btoc					Pesticides		
							Nitrate and Sulfate		
TW-9	Well TW-9	33.2	899.2/901.56*	23-33	TW-9		Total and Dissolved As, Cu, Pb, and Zn	11/18/2013	site-wide groundwater monitoring
		34.9 btoc					Pesticides		
							Nitrate and Sulfate		
TW-9	Well TW-9	33.2	899.2/901.56*	23-33	TW-9		Total and Dissolved As, Cu, Pb, and Zn	5/22/2014	site-wide groundwater monitoring
		34.5 btoc					Pesticides		
							Nitrate and Sulfate		
TW-9	Well TW-9	33.2	899.2/901.56*	23-33	TW-9		Total and Dissolved As, Cu, Pb, and Zn	11/17/2014	site-wide groundwater monitoring
		34.9 btoc					Pesticides		
							Nitrate and Sulfate		
TW-9	Well TW-9	33.2	899.2/901.56*	23-33	TW-9		Total and Dissolved As, Cu, Pb, and Zn	6/8/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		34.9 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
TW-9	Well TW-9	33.2	899.2/901.56*	23-33	TW-9		Total and Dissolved As, Cu, Pb, and Zn	11/17/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		34.9 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
TW-10	Well TW-10	29.4	895.6/896.56*	19.2-29.2	TW-10-053112		Total and Dissolved As, Cu, Pb, and Zn	5/31/2012	New well to investigate Copper and Zinc in groundwater
							Pesticides		
							Nitrate and Sulfate		
TW-10	Well TW-10	29.4	895.6/896.56*	19.2-29.2	TW-10		Total and Dissolved As, Cu, Pb, and Zn	5/24/2013	site-wide groundwater monitoring
		30.0 btoc					Pesticides		
							Nitrate and Sulfate		
TW-10	Well TW-10	29.4	895.6/896.56*	19.2-29.2	TW-10		Total and Dissolved As, Cu, Pb, and Zn	11/18/2013	site-wide groundwater monitoring
		29.9 btoc					Pesticides		
							Nitrate and Sulfate		
TW-10	Well TW-10	29.4	895.6/896.56*	19.2-29.2	TW-10		Total and Dissolved As, Cu, Pb, and Zn	5/22/2014	site-wide groundwater monitoring
		29.4 btoc					Pesticides		
							Nitrate and Sulfate		
TW-10	Well TW-10	29.4	895.6/896.56*	19.2-29.2	TW-10		Total and Dissolved As, Cu, Pb, and Zn	11/17/2014	site-wide groundwater monitoring
		29.4 btoc					Pesticides		
							Nitrate and Sulfate		
TW-10	Well TW-10	29.4	895.6/896.56*	19.2-29.2	TW-10		Total and Dissolved As, Cu, Pb, and Zn	5/31/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		29.4 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		

TABLE 1: SUMMARY OF SOIL AND WATER COLLECTION DATA

TW-10	Well TW-10	29.4	895.6/896.56*	19.2-29.2	TW-10	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	11/17/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		30.0 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
TW-11	Well TW-11	42.0	914.7/918.08*	31.8-41.8	TW-11-053112	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	5/31/2012	New well to investigate Copper and Zinc in groundwater
							Pesticides		
							Nitrate and Sulfate		
TW-11	Well TW-11	42.0	914.7/918.08*	31.8-41.8	TW-11		Total and Dissolved As, Cu, Pb, and Zn	5/23/2013	site-wide groundwater monitoring
		44.9 btoc					Pesticides		
							Nitrate and Sulfate		
TW-11	Well TW-11	42.0	914.7/918.08*	31.8-41.8	TW-11		Total and Dissolved As, Cu, Pb, and Zn	11/13/2013	site-wide groundwater monitoring
		44.8 btoc					Pesticides		
							Nitrate and Sulfate		
TW-11	Well TW-11	42.0	914.7/918.08*	31.8-41.8	TW-11		Total and Dissolved As, Cu, Pb, and Zn	5/13/2014	site-wide groundwater monitoring
		44.8 btoc					Pesticides		
							Nitrate and Sulfate		
TW-11	Well TW-11	42.0	914.7/918.08*	31.8-41.8	TW-11		Total and Dissolved As, Cu, Pb, and Zn	11/11/2014	site-wide groundwater monitoring
		44.8 btoc					Pesticides		
							Nitrate and Sulfate		
TW-11	Well TW-11	42.0	914.7/918.08*	31.8-41.8	TW-11		Total and Dissolved As, Cu, Pb, and Zn	5/27/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		44.8 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
TW-11	Well TW-11	42.0	914.7/918.08*	31.8-41.8	TW-11		Total and Dissolved As, Cu, Pb, and Zn	11/11/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		45.03 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
TW-12	Well TW-12	44.0	927.6/929.03*	33.8-43.8	TW-12-053112	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	5/31/2012	New well to investigate Copper and Zinc in groundwater
							Pesticides		
							Nitrate and Sulfate		
TW-12	Well TW-12	44.0	927.6/929.03*	33.8-43.8	TW-12		Total and Dissolved As, Cu, Pb, and Zn	5/23/2013	site-wide groundwater monitoring
		44.9 btoc					Pesticides		
							Nitrate and Sulfate		
TW-12	Well TW-12	44.0	927.6/929.03*	33.8-43.8	TW-12		Total and Dissolved As, Cu, Pb, and Zn	11/12/2013	site-wide groundwater monitoring
		44.9 btoc					Pesticides		
							Nitrate and Sulfate		
TW-12	Well TW-12	44.0	927.6/929.03*	33.8-43.8	TW-12		Total and Dissolved As, Cu, Pb, and Zn	5/13/2014	site-wide groundwater monitoring
		44.9 btoc					Pesticides		
							Nitrate and Sulfate		
TW-12	Well TW-12	44.0	927.6/929.03*	33.8-43.8	TW-12		Total and Dissolved As, Cu, Pb, and Zn	11/11/2014	site-wide groundwater monitoring
		44.9 btoc					Pesticides		
							Nitrate and Sulfate		
TW-12	Well TW-12	44.0	927.6/929.03*	33.8-43.8	TW-12		Total and Dissolved As, Cu, Pb, and Zn	5/27/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		44.9 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
TW-12	Well TW-12	44.0	927.6/929.03*	33.8-43.8	TW-12		Total and Dissolved As, Cu, Pb, and Zn	11/11/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		45.05 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-1B	MW-1B	30.0	913.5/915.95*	20-29	MW-1B-1112	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	11/13/2012	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
MW-1B	MW-1B	30.0	913.5/915.95*	20-29	MW-1B		Total and Dissolved As, Cu, Pb, and Zn	5/21/2013	site-wide groundwater monitoring
		32.3 btoc					Pesticides		
							Nitrate and Sulfate		
MW-1B	MW-1B	30.0	913.5/915.95*	20-29	MW-1B		Total and Dissolved As, Cu, Pb, and Zn	11/12/2013	site-wide groundwater monitoring
		32.2 btoc					Pesticides		
							Nitrate and Sulfate		
MW-1B	MW-1B	30.0	913.5/915.95*	20-29	MW-1B		Total and Dissolved As, Cu, Pb, and Zn	5/13/2014	site-wide groundwater monitoring
		32.2 btoc					Pesticides		
							Nitrate and Sulfate		
MW-1B	MW-1B	30.0	913.5/915.95*	20-29	MW-1B		Total and Dissolved As, Cu, Pb, and Zn	11/11/2014	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		32.46 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		

TABLE 1: SUMMARY OF SOIL AND WATER COLLECTION DATA

MW-1B	MW-1B	30.0	913.5/915.95*	20-29	MW-1B	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	5/27/2015	site-wide groundwater monitoring
		32.46 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-1B	MW-1B	30.0	913.5/915.95*	20-29	MW-1B		Total and Dissolved As, Cu, Pb, and Zn	11/10/2015	site-wide groundwater monitoring
		32.2 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-21	MW-21	27.5	905.70*	17.5-27.5	Well was dry and could not be sampled		November 2012, May and November 2013, May and November 2014. May 2015		
MW-22	MW-22	27.0	894.23*	17-27	MW-22-1112	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	11/14/2012	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
MW-22	MW-22	27.0	894.23*	17-27	MW-22		Total and Dissolved As, Cu, Pb, and Zn	5/22/2013	site-wide groundwater monitoring
		28.9 btoc					Pesticides		
							Nitrate and Sulfate		
MW-22	MW-22	27.0	894.23*	17-27	MW-22		Total and Dissolved As, Cu, Pb, and Zn	11/13/2013	site-wide groundwater monitoring
		28.9 btoc					Pesticides		
							Nitrate and Sulfate		
MW-22	MW-22	27.0	894.23*	17-27	MW-22		Total and Dissolved As, Cu, Pb, and Zn	5/19/2014	site-wide groundwater monitoring
		28.9 btoc					Pesticides		
							Nitrate and Sulfate		
MW-22	MW-22	27.0	894.23*	17-27	MW-22		Total and Dissolved As, Cu, Pb, and Zn	11/12/2014	site-wide groundwater monitoring
		28.9 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-22	MW-22	27.0	894.23*	17-27	MW-22		Total and Dissolved As, Cu, Pb, and Zn	5/29/2015	site-wide groundwater monitoring
		28.9 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-22	MW-22	27.0	894.23*	17-27	MW-22		Total and Dissolved As, Cu, Pb, and Zn	11/12/2015	site-wide groundwater monitoring
		28.9 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-24	MW-24	30.0	897.31*	20-30	Well was damaged and could not be sampled				
MW-25	MW-25	28.0	895.05*	18-28	Well was dry and could not be sampled		November and May 2012		
MW-25	MW-25	28.0	895.05*	18-28	MW-25	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	5/24/2013	site-wide groundwater monitoring
		29.6 btoc					Pesticides		
							Nitrate and Sulfate		
MW-25	MW-25				Well was dry and could not be sampled		November 2013 and May 2014		
MW-25	MW-25	28.0	895.05*	18-28	MW-25	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	11/18/2014	site-wide groundwater monitoring
		29.8 btoc					Pesticides		
							Nitrate and Sulfate		
MW-25	MW-25	28.0	895.05*	18-28	MW-25		Total and Dissolved As, Cu, Pb, and Zn	6/2/2015	site-wide groundwater monitoring
		29.8 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-25	MW-25	28.0	895.05*	18-28	MW-25		Total and Dissolved As, Cu, Pb, and Zn	11/13/2015	site-wide groundwater monitoring
		29.5 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-26	MW-26	19.0	905.11*	9-19	MW-26-1112	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	11/14/2012	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
MW-26	MW-26	19.0	905.11*	9-19	MW-26		Total and Dissolved As, Cu, Pb, and Zn	5/22/2013	site-wide groundwater monitoring
		20.7 btoc					Pesticides		
							Nitrate and Sulfate		
MW-26	MW-26	19.0	905.11*	9-19	MW-26		Total and Dissolved As, Cu, Pb, and Zn	11/13/2013	site-wide groundwater monitoring
		20.7 btoc					Pesticides		
							Nitrate and Sulfate		
MW-26	MW-26	19.0	905.11*	9-19	MW-26		Total and Dissolved As, Cu, Pb, and Zn	5/14/2014	site-wide groundwater monitoring
		20.7 btoc					Pesticides		
							Nitrate and Sulfate		
MW-26	MW-26	19.0	905.11*	9-19	MW-26		Total and Dissolved As, Cu, Pb, and Zn	11/12/2014	site-wide groundwater monitoring
		20.9 btoc					Pesticides		
							Nitrate and Sulfate		

TABLE 1: SUMMARY OF SOIL AND WATER COLLECTION DATA

MW-26	MW-26	19.0	905.11*	9-19	MW-26	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	5/28/2015	site-wide groundwater monitoring
		20.9 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-26	MW-26	19.0	905.11*	9-19	MW-26		Total and Dissolved As, Cu, Pb, and Zn	11/11/2015	site-wide groundwater monitoring
		20.9 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-101	MW-101	25.0	912.55*	14.4-24.4	MW-101-1112		Total and Dissolved As, Cu, Pb, and Zn	11/12/2012	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
MW-101	MW-101	25.0	912.55*	14.4-24.4	MW-101		Total and Dissolved As, Cu, Pb, and Zn	5/21/2013	site-wide groundwater monitoring
		27.1 btoc					Pesticides		
							Nitrate and Sulfate		
MW-101	MW-101	25.0	912.55*	14.4-24.4	MW-101		Total and Dissolved As, Cu, Pb, and Zn	11/12/2013	site-wide groundwater monitoring
		27.0 btoc					Pesticides		
							Nitrate and Sulfate		
MW-101	MW-101	25.0	912.55*	14.4-24.4	MW-101		Total and Dissolved As, Cu, Pb, and Zn	5/13/2014	site-wide groundwater monitoring
		26.98 btoc					Pesticides		
							Nitrate and Sulfate		
MW-101	MW-101	25.0	912.55*	14.4-24.4	MW-101	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	11/11/2014	site-wide groundwater monitoring
		27.20 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-101	MW-101	25.0	912.55*	14.4-24.4	MW-101		Total and Dissolved As, Cu, Pb, and Zn	5/27/2015	site-wide groundwater monitoring
		27.20 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-101	MW-101	25.0	912.55*	14.4-24.4	MW-101		Total and Dissolved As, Cu, Pb, and Zn	11/10/2015	site-wide groundwater monitoring
		26.9 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-102	MW-102	31.2	915.19*	21.1-30.1	MW-102-1112		Total and Dissolved As, Cu, Pb, and Zn	11/13/2012	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
MW-102	MW-102	31.2	915.19*	21.1-30.1	MW-102		Total and Dissolved As, Cu, Pb, and Zn	5/21/2013	site-wide groundwater monitoring
		32.7 btoc					Pesticides		
							Nitrate and Sulfate		
MW-102	MW-102	31.2	915.19*	21.1-30.1	MW-102		Total and Dissolved As, Cu, Pb, and Zn	11/12/2013	site-wide groundwater monitoring
		32.6 btoc					Pesticides		
							Nitrate and Sulfate		
MW-102	MW-102	31.2	915.19*	21.1-30.1	MW-102		Total and Dissolved As, Cu, Pb, and Zn	5/13/2014	site-wide groundwater monitoring
		32.6 btoc					Pesticides		
							Nitrate and Sulfate		
MW-102	MW-102	31.2	915.19*	21.1-30.1	MW-102		Total and Dissolved As, Cu, Pb, and Zn	11/11/2014	site-wide groundwater monitoring
		32.6 btoc					Pesticides		
							Nitrate and Sulfate		
MW-102	MW-102	31.2	915.19*	21.1-30.1	MW-102		Total and Dissolved As, Cu, Pb, and Zn	5/27/2015	site-wide groundwater monitoring
		32.6 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-102	MW-102	31.2	915.19*	21.1-30.1	MW-102		Total and Dissolved As, Cu, Pb, and Zn	11/12/2015	site-wide groundwater monitoring
		32.9 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-104A	MW-104A	40.0	898.00*	30.0-39.5	MW-104A-1112		Total and Dissolved As, Cu, Pb, and Zn	11/14/2012	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
MW-104A	MW-104A	40.0	898.00*	30.0-39.5	MW-104A		Total and Dissolved As, Cu, Pb, and Zn	5/28/2013	site-wide groundwater monitoring
		39.3 btoc					Pesticides		
							Nitrate and Sulfate		
MW-104A	MW-104A	40.0	898.00*	30.0-39.5	MW-104A		Total and Dissolved As, Cu, Pb, and Zn	11/14/2013	site-wide groundwater monitoring
		39.3 btoc					Pesticides		
							Nitrate and Sulfate		
MW-104A	MW-104A	40.0	898.00*	30.0-39.5	MW-104A		Total and Dissolved As, Cu, Pb, and Zn	5/14/2014	site-wide groundwater monitoring
		39.3 btoc					Pesticides		
							Nitrate and Sulfate		

TABLE 1: SUMMARY OF SOIL AND WATER COLLECTION DATA

WELL LOCATION	WELL NUMBER	TOTAL WELL DEPTH (FT BGS)	Ground Surface and Top of Casing Elevations (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	SAMPLE IDENTIFICATION	MEDIA	ANALYSES	SAMPLE DATE	RATIONALE
MW-104A	MW-104A	40.0	898.00*	30.0-39.5	MW-104A	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	11/12/2014	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		39.6 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-104A	MW-104A	40.0	898.00*	30.0-39.5	MW-104A		Total and Dissolved As, Cu, Pb, and Zn	6/1/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		39.6 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-104A	MW-104A	40.0	898.00*	30.0-39.5	MW-104A		Total and Dissolved As, Cu, Pb, and Zn	11/11/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		39.4 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-104D	MW-104D	80.0	901.59*	69.5-79.5	MW-104B-1112		Total and Dissolved As, Cu, Pb, and Zn	11/14/2012	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
MW-104D	MW-104D	80.0	901.59*	69.5-79.5	MW-104B		Total and Dissolved As, Cu, Pb, and Zn	5/28/2013	site-wide groundwater monitoring
		82.5 btoc					Pesticides		
							Nitrate and Sulfate		
MW-104D	MW-104D	80.0	901.59*	69.5-79.5	MW-104B		Total and Dissolved As, Cu, Pb, and Zn	11/14/2013	site-wide groundwater monitoring
		82.5 btoc					Pesticides		
							Nitrate and Sulfate		
MW-104D	MW-104D	80.0	901.59*	69.5-79.5	MW-104B		Total and Dissolved As, Cu, Pb, and Zn	5/15/2014	site-wide groundwater monitoring
		82.6 btoc					Pesticides		
							Nitrate and Sulfate		
MW-104D	MW-104D	80.0	901.59*	69.5-79.5	MW-104B		Total and Dissolved As, Cu, Pb, and Zn	11/13/2014	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		82.7 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-104D	MW-104D	80.0	901.59*	69.5-79.5	MW-104B		Total and Dissolved As, Cu, Pb, and Zn	6/3/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL Sampled for treatability study of VOCs in GW
		82.7 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-104D	MW-104D	80.0	901.59*	69.5-79.5	MW-104B		Total and Dissolved As, Cu, Pb, and Zn	11/12/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		82.9 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-105	MW-105	25.0	904.55*	14.8-23.8	MW-105	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	5/21/2013	site-wide groundwater monitoring
		27.2 btoc					Pesticides		
							Nitrate and Sulfate		
MW-105	MW-105	25.0	904.55*	14.8-23.8	MW-105		Total and Dissolved As, Cu, Pb, and Zn	11/14/2013	site-wide groundwater monitoring
		27.1 btoc					Pesticides		
							Nitrate and Sulfate		
MW-105	MW-105	25.0	904.55*	14.8-23.8	MW-105		Total and Dissolved As, Cu, Pb, and Zn	5/13/2014	site-wide groundwater monitoring
		27.1 btoc					Pesticides		
							Nitrate and Sulfate		
MW-105	MW-105	25.0	904.55*	14.8-23.8	MW-105		Total and Dissolved As, Cu, Pb, and Zn	11/14/2014	site-wide groundwater monitoring
		27.4 btoc					Pesticides		
							Nitrate and Sulfate		
MW-105	MW-105	25.0	904.55*	14.8-23.8	MW-105		Total and Dissolved As, Cu, Pb, and Zn	11/14/2014	site-wide groundwater monitoring
		27.4 btoc					Pesticides		
							Nitrate and Sulfate		
MW-105	MW-105	25.0	904.55*	14.8-23.8	MW-105		Total and Dissolved As, Cu, Pb, and Zn	11/12/2015	site-wide groundwater monitoring
		27.0 btoc					Pesticides		
							Nitrate and Sulfate		
MW-106D	MW-106D	70.0	878.6*	60-69	MW-106D-1112	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	11/15/2012	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
MW-106D	MW-106D	70.0	878.6*	60-69	MW-106D		Total and Dissolved As, Cu, Pb, and Zn	5/29/2013	site-wide groundwater monitoring
		72.8 btoc					Pesticides		
							Nitrate and Sulfate		

TABLE 1: SUMMARY OF SOIL AND WATER COLLECTION DATA

MW-106D	MW-106D	70.0	878.6*	60-69	MW-106D	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	11/15/2013	site-wide groundwater monitoring
		72.7 btoc					Pesticides		
							Nitrate and Sulfate		
MW-106D	MW-106D	70.0	878.6*	60-69	MW-106D		Total and Dissolved As, Cu, Pb, and Zn	5/19/2014	site-wide groundwater monitoring
		72.8 btoc					Pesticides		
							Nitrate and Sulfate		
MW-106D	MW-106D	70.0	878.6*	60-69	MW-106D		Total and Dissolved As, Cu, Pb, and Zn	11/13/2014	site-wide groundwater monitoring
		72.8 btoc					Pesticides		
							Nitrate and Sulfate		
MW-106D	MW-106D	70.0	878.6*	60-69	MW-106D		Total and Dissolved As, Cu, Pb, and Zn	6/2/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		72.8 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-106D	MW-106D	70.0	878.6*	60-69	MW-106D		Total and Dissolved As, Cu, Pb, and Zn	11/13/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		72.7 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-107D	MW-107D	50.0	857.14*	40.0-49.5	MW-107D-1112	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	11/19/2012	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
							Pesticides	12/5/2012	confirmation sampling of pesticides
MW-107D	MW-107D	50.0	857.14*	40.0-49.5	MW-107D		Total and Dissolved As, Cu, Pb, and Zn	5/22/2013	site-wide groundwater monitoring
		49.9 btoc					Pesticides		
							Nitrate and Sulfate		
MW-107D	MW-107D	50.0	857.14*	40.0-49.5	MW-107D		Total and Dissolved As, Cu, Pb, and Zn	11/18/2013	site-wide groundwater monitoring
		49.8 btoc					Pesticides		
							Nitrate and Sulfate		
MW-107D	MW-107D	50.0	857.14*	40.0-49.5	MW-107D		Total and Dissolved As, Cu, Pb, and Zn	5/21/2014	site-wide groundwater monitoring
		49.8 btoc					Pesticides		
							Nitrate and Sulfate		
MW-107D	MW-107D	50.0	857.14*	40.0-49.5	MW-107D		Total and Dissolved As, Cu, Pb, and Zn	11/13/2014	site-wide groundwater monitoring
		49.8 btoc					Pesticides		
							Nitrate and Sulfate		
MW-107D	MW-107D	50.0	857.14*	40.0-49.5	MW-107D		Total and Dissolved As, Cu, Pb, and Zn	6/1/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		49.8 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-107D	MW-107D	50.0	857.14*	40.0-49.5	MW-107D		Total and Dissolved As, Cu, Pb, and Zn	11/12/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		49.8 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-108	MW-108	34.0	901.91*	24-33	MW-108-1112	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	11/13/2012	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
MW-108	MW-108	34.0	901.91*	24-33	MW-108		Total and Dissolved As, Cu, Pb, and Zn	5/23/2013	site-wide groundwater monitoring
		35.7 btoc					Pesticides		
							Nitrate and Sulfate		
MW-108	MW-108	34.0	901.91*	24-33	MW-108		Total and Dissolved As, Cu, Pb, and Zn	11/13/2013	site-wide groundwater monitoring
		35.6 btoc					Pesticides		
							Nitrate and Sulfate		
MW-108	MW-108	34.0	901.91*	24-33	MW-108		Total and Dissolved As, Cu, Pb, and Zn	5/15/2014	site-wide groundwater monitoring
		35.7 btoc					Pesticides		
							Nitrate and Sulfate		
MW-108	MW-108	34.0	901.91*	24-33	MW-108		Total and Dissolved As, Cu, Pb, and Zn	11/12/2014	site-wide groundwater monitoring
		35.7 btoc					Pesticides		
							Nitrate and Sulfate		
MW-108	MW-108	34.0	901.91*	24-33	MW-108		Total and Dissolved As, Cu, Pb, and Zn	5/28/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		35.7 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-108	MW-108	34.0	901.91*	24-33	MW-108		Total and Dissolved As, Cu, Pb, and Zn	11/11/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		36.1 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		

TABLE 1: SUMMARY OF SOIL AND WATER COLLECTION DATA

MW-109	MW-109	31.5	895.90*	21.5-30.5	MW-109-1112	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	11/16/2012	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
MW-109	MW-109	31.5	895.90*	21.5-30.5	MW-109		Total and Dissolved As, Cu, Pb, and Zn	5/23/2013	site-wide groundwater monitoring
		33.3 btoc					Pesticides		
							Nitrate and Sulfate		
MW-109	MW-109	31.5	895.90*	21.5-30.5	MW-109		Total and Dissolved As, Cu, Pb, and Zn	11/15/2013	site-wide groundwater monitoring
		33.3 btoc					Pesticides		
							Nitrate and Sulfate		
MW-109	MW-109	31.5	895.90*	21.5-30.5	MW-109		Total and Dissolved As, Cu, Pb, and Zn	5/15/2014	site-wide groundwater monitoring
		33.2 btoc					Pesticides		
							Nitrate and Sulfate		
MW-109	MW-109	31.5	895.90*	21.5-30.5	MW-109		Total and Dissolved As, Cu, Pb, and Zn	11/18/2014	site-wide groundwater monitoring
		33.3 btoc					Pesticides		
							Nitrate and Sulfate		
MW-109	MW-109	31.5	895.90*	21.5-30.5	MW-109		Total and Dissolved As, Cu, Pb, and Zn	6/3/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL Sampled for treatability study of Metals in GW Sampled for treatability study of Pesticides in GW
		33.3 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-109	MW-109	31.5	895.90*	21.5-30.5	MW-109		Total and Dissolved As, Cu, Pb, and Zn	11/16/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		33.3 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-110	MW-110	76.6	900.52*	66.5-75.5	MW-110-1112		Total and Dissolved As, Cu, Pb, and Zn	11/14/2012	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
MW-110	MW-110	76.6	900.52*	66.5-75.5	MW-110-12113		Total and Dissolved Fe and Mn	1/21/2013	Monitor parameters for EHC injection pilot study Base line sampling prior to EHC injection
							Chloride and Nitrite		
							Total and Dissolved Organic Cabon		
							Total Alkalinity		
MW-110	MW-110	76.6	900.52*	66.5-75.5	MW-110-04-16-2013		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	4/16/2013	Monitor parameters for EHC injection pilot study 1st quarter sampling after injection
		78.9 btoc					Pesticides		
							Chloride, Nitrate, Nitrite, and Sulfate		
							Total and Dissolved Organic Cabon		
							Total Alkalinity		
MW-110	MW-110	76.6	900.52*	66.5-75.5	MW-110-07-16-2013		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	7/16/2013	Monitor parameters for EHC injection pilot study 2nd quarter sampling after injection
		78.9 btoc					Pesticides		
							Chloride, Nitrate, Nitrite, and Sulfate		
							Total and Dissolved Organic Cabon		
							Total Alkalinity		
MW-110	MW-110	76.6	900.52*	66.5-75.5	MW-110-10-9-2013		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	10/9/2013	Monitor parameters for EHC injection pilot study 3rd quarter sampling after injection
		78.9 btoc					Pesticides		
							Chloride, Nitrate, Nitrite, and Sulfate		
							Total and Dissolved Organic Cabon		
							Total Alkalinity		
MW-110	MW-110	76.6	900.52*	66.5-75.5	MW-110		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	1/8/2014	Monitor parameters for EHC injection pilot study 4th quarter sampling after injection
		78.9 btoc					Pesticides		
							Chloride, Nitrate, Nitrite, and Sulfate		
							Total and Dissolved Organic Cabon		
							Total Alkalinity		
MW-110	MW-110	76.6	900.52*	66.5-75.5	MW-110		Total and Dissolved As, Cu, Pb, and Zn	5/15/2014	site-wide groundwater monitoring
		78.9 btoc					Pesticides		
							Nitrate and Sulfate		
MW-110	MW-110	76.6	900.52*	66.5-75.5	MW-110		Total and Dissolved As, Cu, Pb, and Zn	11/12/2014	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		78.9 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-110	MW-110	76.6	900.52*	66.5-75.5	MW-110		Total and Dissolved As, Cu, Pb, and Zn	5/29/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		78.9 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-110	MW-110	76.6	900.52*	66.5-75.5	MW-110		Total and Dissolved As, Cu, Pb, and Zn	11/11/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		79.6 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		

TABLE 1: SUMMARY OF SOIL AND WATER COLLECTION DATA

MW-111	MW-111	43.2	900.10*	33.2-42.2	MW-111-1112	Groundwater	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/16/2012	site-wide groundwater monitoring
MW-111	MW-111	43.2	900.10*	33.2-42.2	MW-111-12113		Total and Dissolved Fe and Mn Chloride and Nitrite Total and Dissolved Organic Cabon Total Alkalinity	1/21/2013	Monitor parameters for EHC injection pilot study Base line sampling prior to EHC injection
MW-111	MW-111	43.2 46.3 btoc	900.10*	33.2-42.2	MW-111-04-17-2013		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Cabon Total Alkalinity	4/17/2013	Monitor parameters for EHC injection pilot study 1st quarter sampling after injection
MW-111	MW-111	43.2 46.3 btoc	900.10*	33.2-42.2	MW-111-07-16-2013		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Cabon Total Alkalinity	7/16/2013	Monitor parameters for EHC injection pilot study 2nd quarter sampling after injection
MW-111	MW-111	43.2 46.3 btoc	900.10*	33.2-42.2	MW-111-10-9-2013		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Cabon Total Alkalinity	10/9/2013	Monitor parameters for EHC injection pilot study 3rd quarter sampling after injection
MW-111	MW-111	43.2 46.3 btoc	900.10*	33.2-42.2	MW-111		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Cabon Total Alkalinity	1/8/2014	Monitor parameters for EHC injection pilot study 4th quarter sampling after injection
MW-111	MW-111	43.2 46.2 btoc	900.10*	33.2-42.2	MW-111		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/19/2014	site-wide groundwater monitoring
MW-111	MW-111	43.2 46.2 btoc	900.10*	33.2-42.2	MW-111		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/18/2014	site-wide groundwater monitoring
MW-111	MW-111	43.2 46.2 btoc	900.10*	33.2-42.2	MW-111		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	6/3/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL Sampled for treatability study of Pesticides in GW
MW-111	MW-111	43.2 46.2 btoc	900.10*	33.2-42.2	MW-111		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/16/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-112	MW-112	22.0	904.90*	12-21	MW-112-1112		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/13/2012	site-wide groundwater monitoring
MW-112	MW-112	22.0 25.1 btoc	904.90*	12-21	MW-112		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/22/2013	site-wide groundwater monitoring
MW-112	MW-112	22.0 25.1 btoc	904.90*	12-21	MW-112		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/13/2013	site-wide groundwater monitoring
MW-112	MW-112	22.0 25.2 btoc	904.90*	12-21	MW-112		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/14/2014	site-wide groundwater monitoring
MW-112	MW-112	22.0 25.2 btoc	904.90*	12-21	MW-112		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/11/2014	site-wide groundwater monitoring
MW-112	MW-112	22.0 25.2 btoc	904.90*	12-21	MW-112		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	5/28/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-112	MW-112	22.0 25.2 btoc	904.90*	12-21	MW-112		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/10/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL

TABLE 1: SUMMARY OF SOIL AND WATER COLLECTION DATA

MW-113	MW-113	41.6	900.06*	31.6-40.6	MW-113-1112	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	11/15/2012	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
MW-113	MW-113	41.6	900.06*	31.6-40.6	MW-113		Total and Dissolved As, Cu, Pb, and Zn	5/24/2013	site-wide groundwater monitoring
		43.7 btoc					Pesticides		
							Nitrate and Sulfate		
MW-113	MW-113	41.6	900.06*	31.6-40.6	MW-113		Total and Dissolved As, Cu, Pb, and Zn	11/15/2013	site-wide groundwater monitoring
		43.7 btoc					Pesticides		
							Nitrate and Sulfate		
MW-113	MW-113	41.6	900.06*	31.6-40.6	MW-113		Total and Dissolved As, Cu, Pb, and Zn	5/15/2014	site-wide groundwater monitoring
		43.7 btoc					Pesticides		
							Nitrate and Sulfate		
MW-113	MW-113	41.6	900.06*	31.6-40.6	MW-113		Total and Dissolved As, Cu, Pb, and Zn	11/17/2014	site-wide groundwater monitoring
		43.9 btoc					Pesticides		
							Nitrate and Sulfate		
MW-113	MW-113	41.6	900.06*	31.6-40.6	MW-113		Total and Dissolved As, Cu, Pb, and Zn	6/2/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL Sampled for treatability study of Metals in GW
		43.9 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-113	MW-113	41.6	900.06*	31.6-40.6	MW-113		Total and Dissolved As, Cu, Pb, and Zn	11/16/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		43.8 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-114	MW-114	43.8	892.96*	33.8-42.8	MW-114-1112	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	11/15/2012	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
MW-114	MW-114	43.8	892.96*	33.8-42.8	MW-114		Total and Dissolved As, Cu, Pb, and Zn	5/24/2013	site-wide groundwater monitoring
		46 btoc					Pesticides		
							Nitrate and Sulfate		
MW-114	MW-114	43.8	892.96*	33.8-42.8	MW-114		Total and Dissolved As, Cu, Pb, and Zn	11/14/2013	site-wide groundwater monitoring
		45.8 btoc					Pesticides		
							Nitrate and Sulfate		
MW-114	MW-114	43.8	892.96*	33.8-42.8	MW-114		Total and Dissolved As, Cu, Pb, and Zn	5/15/2014	site-wide groundwater monitoring
		45.95 btoc					Pesticides		
							Nitrate and Sulfate		
MW-114	MW-114	43.8	892.96*	33.8-42.8	MW-114		Total and Dissolved As, Cu, Pb, and Zn	11/18/2014	site-wide groundwater monitoring
		45.95 btoc					Pesticides		
							Nitrate and Sulfate		
MW-114	MW-114	43.8	892.96*	33.8-42.8	MW-114		Total and Dissolved As, Cu, Pb, and Zn	6/2/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		45.95 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-114	MW-114	43.8	892.96*	33.8-42.8	MW-114		Total and Dissolved As, Cu, Pb, and Zn	11/16/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		45.9 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-115	MW-115	20.5	893.40*	10.5-19.5	MW-115-1112	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	11/15/2012	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
MW-115	MW-115	20.5	893.40*	10.5-19.5	MW-115		Total and Dissolved As, Cu, Pb, and Zn	5/24/2013	site-wide groundwater monitoring
		21.9 btoc					Pesticides		
							Nitrate and Sulfate		
MW-115	MW-115	20.5	893.40*	10.5-19.5	MW-115		Total and Dissolved As, Cu, Pb, and Zn	11/13/2013	site-wide groundwater monitoring
		21.9 btoc					Pesticides		
							Nitrate and Sulfate		
MW-115	MW-115	20.5	893.40*	10.5-19.5	MW-115		Total and Dissolved As, Cu, Pb, and Zn	5/16/2014	site-wide groundwater monitoring
		21.9 btoc					Pesticides		
							Nitrate and Sulfate		
MW-115	MW-115	20.5	893.40*	10.5-19.5	MW-115		Total and Dissolved As, Cu, Pb, and Zn	11/14/2014	site-wide groundwater monitoring
		22.2 btoc					Pesticides		
							Nitrate and Sulfate		

TABLE 1: SUMMARY OF SOIL AND WATER COLLECTION DATA

WELL LOCATION	WELL NUMBER	TOTAL WELL DEPTH (FT BGS)	Ground Surface and Top of Casing Elevations (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	SAMPLE IDENTIFICATION	MEDIA	ANALYSES	SAMPLE DATE	RATIONALE
MW-115	MW-115	20.5	893.40*	10.5-19.5	MW-115	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	6/1/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		22.2 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-115	MW-115	20.5	893.40*	10.5-19.5	MW-115		Total and Dissolved As, Cu, Pb, and Zn	11/16/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		22 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-116	MW-116	31.6	905.62*	21.6-30.6	Well had insufficent amount of water in casing and could not be sampled			11/15/2012	
MW-116	MW-116	31.6	905.62*	21.6-30.6	MW-116		Total and Dissolved As, Cu, Pb, and Zn	5/23/2013	site-wide groundwater monitoring
		33.5 btoc					Pesticides		
							Nitrate and Sulfate		
MW-116	MW-116	31.6	905.62*	21.6-30.6	MW-116		Total and Dissolved As, Cu, Pb, and Zn	11/13/2013	site-wide groundwater monitoring
		33.4 btoc					Pesticides		
							Nitrate and Sulfate		
MW-116	MW-116	31.6	905.62*	21.6-30.6	MW-116		Total and Dissolved As, Cu, Pb, and Zn	5/16/2014	site-wide groundwater monitoring
		33.4 btoc					Pesticides		
							Nitrate and Sulfate		
MW-116	MW-116	31.6	905.62*	21.6-30.6	MW-116		Total and Dissolved As, Cu, Pb, and Zn	11/12/2014	site-wide groundwater monitoring
		33.4 btoc					Pesticides		
							Nitrate and Sulfate		
MW-116	MW-116	31.6	905.62*	21.6-30.6	MW-116		Total and Dissolved As, Cu, Pb, and Zn	5/28/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		33.4 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-116	MW-116	31.6	905.62*	21.6-30.6	MW-116		Total and Dissolved As, Cu, Pb, and Zn	11/11/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		33.4 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-117	MW-117	22.0	892.42*	12-22	MW-117-1112		Total and Dissolved As, Cu, Pb, and Zn	11/15/2012	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
MW-117	MW-117	22.0	892.42*	12-22	MW-117		Total and Dissolved As, Cu, Pb, and Zn	5/23/2013	site-wide groundwater monitoring
		24.9 btoc					Pesticides		
							Nitrate and Sulfate		
MW-117	MW-117	22.0	892.42*	12-22	MW-117		Total and Dissolved As, Cu, Pb, and Zn	11/15/2013	site-wide groundwater monitoring
		24.9 btoc					Pesticides		
							Nitrate and Sulfate		
MW-117	MW-117	22.0	892.42*	12-22	MW-117	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	5/19/2014	site-wide groundwater monitoring
		24.9 btoc					Pesticides		
							Nitrate and Sulfate		
MW-117	MW-117	22.0	892.42*	12-22	MW-117		Total and Dissolved As, Cu, Pb, and Zn	11/17/2014	site-wide groundwater monitoring
		25.2 btoc					Pesticides		
							Nitrate and Sulfate		
MW-117	MW-117	22.0	892.42*	12-22	MW-117		Total and Dissolved As, Cu, Pb, and Zn	6/2/2015	site-wide groundwater monitoring
		25.2 btoc					Pesticides		
							Nitrate and Sulfate		
MW-117	MW-117	22.0	892.42*	12-22	MW-117		Total and Dissolved As, Cu, Pb, and Zn	11/16/2015	site-wide groundwater monitoring
		25.0 btoc					Pesticides		
							Nitrate and Sulfate		
MW-119	MW-119	52.0	889.8/892.16*	36.5-51.5	MW-119-1212		Total and Dissolved As, Cu, Pb, and Zn	12/6/2012	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
MW-119	MW-119	52.0	889.8/892.16*	36.5-51.5	MW-119		Total and Dissolved As, Cu, Pb, and Zn	5/28/2013	site-wide groundwater monitoring
		54.4 btoc					Pesticides		
							Nitrate and Sulfate		
MW-119	MW-119	52.0	889.8/892.16*	36.5-51.5	MW-119		Total and Dissolved As, Cu, Pb, and Zn	11/18/2013	site-wide groundwater monitoring
		54.4 btoc					Pesticides		
							Nitrate and Sulfate		
MW-119	MW-119	52.0	889.8/892.16*	36.5-51.5	MW-119		Total and Dissolved As, Cu, Pb, and Zn	5/21/2014	site-wide groundwater monitoring
		54.6 btoc					Pesticides		
							Nitrate and Sulfate		

TABLE 1: SUMMARY OF SOIL AND WATER COLLECTION DATA

MW-119	MW-119	52.0	889.8/892.16*	36.5-51.5	MW-119	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	11/18/2014	site-wide groundwater monitoring
		54.6 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-119	MW-119	52.0	889.8/892.16*	36.5-51.5	MW-119		Total and Dissolved As, Cu, Pb, and Zn	6/5/2015	site-wide groundwater monitoring
		54.6 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-119	MW-119	52.0	889.8/892.16*	36.5-51.5	MW-119		Total and Dissolved As, Cu, Pb, and Zn	11/17/2015	site-wide groundwater monitoring
		54.4 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-120	MW-120	64.5	890.1/892.44*	54-64	MW-120-1212	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	12/7/2012	site-wide groundwater monitoring
					MW-120-1212		Pesticides		
							Nitrate and Sulfate		
MW-120	MW-120	64.5	890.1/892.44*	54-64	MW-120		Total and Dissolved As, Cu, Pb, and Zn	5/28/2013	site-wide groundwater monitoring
		65.8 btoc					Pesticides		
							Nitrate and Sulfate		
MW-120	MW-120	64.5	890.1/892.44*	54-64	MW-120		Total and Dissolved As, Cu, Pb, and Zn	11/18/2013	site-wide groundwater monitoring
		65.8 btoc					Pesticides		
							Nitrate and Sulfate		
MW-120	MW-120	64.5	890.1/892.44*	54-64	MW-120		Total and Dissolved As, Cu, Pb, and Zn	5/21/2014	site-wide groundwater monitoring
		65.6 btoc					Pesticides		
							Nitrate and Sulfate		
MW-120	MW-120	64.5	890.1/892.44*	54-64	MW-120		Total and Dissolved As, Cu, Pb, and Zn	11/18/2014	site-wide groundwater monitoring
		65.6 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-120	MW-120	64.5	890.1/892.44*	54-64	MW-120		Total and Dissolved As, Cu, Pb, and Zn	6/4/2015	site-wide groundwater monitoring
		65.6 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		Sampled for treatability study of VOCs in GW
							Site-Specific VOCs		
MW-120	MW-120	64.5	890.1/892.44*	54-64	MW-120		Total and Dissolved As, Cu, Pb, and Zn	11/17/2015	site-wide groundwater monitoring
		65.5 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-121	MW-121	35.0	876.9/879.45*	22-32	MW-121-1212		Total and Dissolved As, Cu, Pb, and Zn	12/6/2012	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
MW-121	MW-121	35.0	876.9/879.45*	22-32	MW-121		Total and Dissolved As, Cu, Pb, and Zn	5/29/2013	site-wide groundwater monitoring
		35.4 btoc					Pesticides		
							Nitrate and Sulfate		
MW-121	MW-121	35.0	876.9/879.45*	22-32	MW-121		Total and Dissolved As, Cu, Pb, and Zn	11/18/2013	site-wide groundwater monitoring
		35.4 btoc					Pesticides		
							Nitrate and Sulfate		
MW-121	MW-121	35.0	876.9/879.45*	22-32	MW-121		Total and Dissolved As, Cu, Pb, and Zn	5/19/2014	site-wide groundwater monitoring
		35.4 btoc					Pesticides		
							Nitrate and Sulfate		
MW-121	MW-121	35.0	876.9/879.45*	22-32	MW-121		Total and Dissolved As, Cu, Pb, and Zn	11/13/2014	site-wide groundwater monitoring
		35.4 btoc					Pesticides		
							Nitrate and Sulfate		
MW-121	MW-121	35.0	876.9/879.45*	22-32	MW-121		Total and Dissolved As, Cu, Pb, and Zn	6/5/2015	site-wide groundwater monitoring
		35.4 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-121	MW-121	35.0	876.9/879.45*	22-32	MW-121		Total and Dissolved As, Cu, Pb, and Zn	11/13/2015	site-wide groundwater monitoring
		35.4 btoc					Pesticides		and M&J Solvents site plume impact on BFEL
							Nitrate and Sulfate		
							Site-Specific VOCs		
OW-1	OW-1	40.5	898.7/901.13*	20-40	OW-1-12013	Groundwater	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	1/20/2013	Observation well downgradient of injection points
							Pesticides		Monitor parameters for EHC injection pilot study
							Chloride, Nitrate, Nitrite, and Sulfate		Base line sampling prior to EHC injection
							Total and Dissolved Organic Cabon		
							Total Alkalinity		
OW-1	OW-1	40.5	898.7/901.13*	20-40	OW-1-04-15-2013		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	4/15/2013	Observation well downgradient of injection points
		42.2 btoc					Pesticides		Monitor parameters for EHC injection pilot study
							Chloride, Nitrate, Nitrite, and Sulfate		1st quarter sampling after EHC injection
							Total and Dissolved Organic Cabon		
							Total Alkalinity		

TABLE 1: SUMMARY OF SOIL AND WATER COLLECTION DATA

OW-1	OW-1	40.5 42.2 btoc	898.7/901.13*	20-40	OW-1-07-16-2013	Groundwater	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Cabon Total Alkalinity	7/16/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 2nd quarter sampling after EHC injection
OW-1	OW-1	40.5 42.2 btoc	898.7/901.13*	20-40	OW-1-10-9-2013	Groundwater	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Cabon Total Alkalinity	10/9/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 3rd quarter sampling after EHC injection
OW-1	OW-1	40.5 42.2 btoc	898.7/901.13*	20-40	OW-1-1082014	Groundwater	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Cabon Total Alkalinity	1/8/2014	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 4th quarter sampling after EHC injection
OW-1	OW-1	40.5 42.2 btoc	898.7/901.13*	20-40	OW-1		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/19/2014	site-wide monitoring
OW-1	OW-1	40.5 42.2 btoc	898.7/901.13*	20-40	OW-1		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	6/3/2015	site-wide monitoring
OW-1	OW-1	40.5 42.1 btoc	898.7/901.13*	20-40	OW-1		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/16/2015	site-wide monitoring
OW-2	OW-2	40.5	898.5/901.14*	20-40	OW-2-12013		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Cabon Total Alkalinity	1/20/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study Base line sampling prior to EHC injection
OW-2	OW-2	40.5 42.9 btoc	898.5/901.14*	20-40	OW-2-04-16-2013		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Cabon Total Alkalinity	4/16/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 1st quarter sampling after EHC injection
OW-2	OW-2	40.5 42.9	898.5/901.14*	20-40	OW-2-07-16-2013		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Total and Dissolved Organic Cabon Total Alkalinity	7/16/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study
OW-3 **OW-2**	OW-3 OW-2	41.0 40.5 42.9 btoc	899.1/901.47* 898.5/901.14*	20.5-40.5 20-40	OW-3-04-16-2013 OW-2-10-9-2013	Groundwater	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Cabon Total Alkalinity	10/9/2013	Observation well downgradient of injection points Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 3rd quarter sampling after EHC injection
OW-2	OW-2	40.5 42.9 btoc	898.5/901.14*	20-40	OW-2-1082014		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Cabon Total Alkalinity	1/8/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 4th quarter sampling after EHC injection
OW-2	OW-2	40.5 42.9 btoc	898.5/901.14*	20-40	OW-2		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/20/2014	site-wide monitoring
OW-2	OW-2	40.5 42.9 btoc	898.5/901.14*	20-40	OW-2		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	6/3/2015	site-wide monitoring
OW-2	OW-2	40.5 42.6 btoc	898.5/901.14*	20-40	OW-2		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/13/2015	site-wide monitoring

TABLE 1: SUMMARY OF SOIL AND WATER COLLECTION DATA

WELL LOCATION	WELL NUMBER	TOTAL WELL DEPTH (FT BGS)	Ground Surface and Top of Casing Elevations (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	SAMPLE IDENTIFICATION	MEDIA	ANALYSES	SAMPLE DATE	RATIONALE
OW-3	OW-3	41.0	899.1/901.47*	20.5-40.5	OW-3-12013	Groundwater	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Cabon Total Alkalinity	1/20/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study Base line sampling prior to EHC injection
OW-3	OW-3	41.0 42.9 btoc	899.1/901.47*	20.5-40.5	OW-3-04-16-2013		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Cabon Total Alkalinity	4/16/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 1st quarter sampling after EHC injection
OW-3	OW-3	41.0 42.9 btoc	899.1/901.47*	20.5-40.5	OW-3-07-16-2013		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	7/16/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study
OW-3	OW-3	41.0 42.9 btoc	899.1/901.47*	20.5-40.5	OW-3-10-9-2013		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Cabon Total Alkalinity	10/9/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 3rd quarter sampling after EHC injection
OW-3	OW-3	41.0 42.9 btoc	899.1/901.47*	20.5-40.5	OW-3-1082014		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Cabon Total Alkalinity	1/8/2014	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 4th quarter sampling after EHC injection
OW-3	OW-3	41.0 42.9 btoc	899.1/901.47*	20.5-40.5	OW-3		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/21/2014	site-wide monitoring
OW-3	OW-3	41.0 42.9 btoc	899.1/901.47*	20.5-40.5	OW-3		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	6/8/2015	site-wide monitoring
OW-3	OW-3	41.0 43.6 btoc	899.1/901.47*	20.5-40.5	OW-3		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/13/2015	site-wide monitoring

TABLE 1: SUMMARY OF SOIL AND WATER COLLECTION DATA

SURFACE WATER LOCATION	SURFACE WATER SAMPLE IDENTIFICATION	Sample Depth	Sample Identification	MEDIA	ANALYSES	SAMPLE DATE	RATIONALE
SW-2010-5	SW-2010-5	N/A	SW-2010-5-1112	Surface Water	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/16/2012	Surface water quality monitoring
SW-2010-5	SW-2010-5	N/A	SW-2010-5		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/30/2013	Surface water quality monitoring
SW-2010-5	SW-2010-5	N/A	SW-2010-5		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/19/2013	Surface water quality monitoring
SW-2010-5	SW-2010-5	N/A	SW-2010-5		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/20/2014	Surface water quality monitoring
SW-2010-5	SW-2010-5	N/A	SW-2010-5		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/19/2014	Surface water quality monitoring
SW-2010-5	SW-2010-5	N/A	SW-2010-5		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	6/4/2015	Surface water quality monitoring
SW-2010-5	SW-2010-5	N/A	SW-2010-5		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/18/2015	Surface water quality monitoring
SW-2010-10	SW-2010-10	N/A	SW-2010-10-1112	Surface Water	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/16/2012	Surface water quality monitoring
SW-2010-10	SW-2010-10	N/A	SW-2010-10		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/30/2013	Surface water quality monitoring
SW-2010-10	SW-2010-10	N/A	SW-2010-10		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/19/2013	Surface water quality monitoring
SW-2010-10	SW-2010-10	N/A	SW-2010-10		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/20/2014	Surface water quality monitoring
SW-2010-10	SW-2010-10	N/A	SW-2010-10		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/19/2014	Surface water quality monitoring
SW-2010-10	SW-2010-10	N/A	SW-2010-10		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	6/4/2015	Surface water quality monitoring
SW-2010-10	SW-2010-10	N/A	SW-2010-10		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/18/2015	Surface water quality monitoring
SW-2010-11	SW-2010-11	N/A	SW-2010-11-1112	Surface Water	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/16/2012	Surface water quality monitoring
SW-2010-11	SW-2010-11	N/A	SW-2010-11		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/30/2013	Surface water quality monitoring
SW-2010-11	SW-2010-11	N/A	SW-2010-11		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/19/2013	Surface water quality monitoring
SW-2010-11	SW-2010-11	N/A	SW-2010-11		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/20/2014	Surface water quality monitoring
SW-2010-11	SW-2010-11	N/A	SW-2010-11		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/19/2014	Surface water quality monitoring
SW-2010-11	SW-2010-11	N/A	SW-2010-11		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	6/4/2015	Surface water quality monitoring
SW-2010-11	SW-2010-11	N/A	SW-2010-11		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/18/2015	Surface water quality monitoring

TABLE 1: SUMMARY OF SOIL AND WATER COLLECTION DATA

SW-2010-14	SW-2010-14	N/A	SW-2010-14-1112	Surface Water	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/16/2012	Surface water quality monitoring
SW-2010-14	SW-2010-14	N/A	SW-2010-14		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/30/2013	Surface water quality monitoring
SW-2010-14	SW-2010-14	N/A	SW-2010-14		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/19/2013	Surface water quality monitoring
SW-2010-14	SW-2010-14	N/A	SW-2010-14		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/20/2014	Surface water quality monitoring
SW-2010-14	SW-2010-14	N/A	SW-2010-14		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/19/2014	Surface water quality monitoring
SW-2010-14	SW-2010-14	N/A	SW-2010-14		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	6/4/2015	Surface water quality monitoring
SW-2010-14	SW-2010-14	N/A	SW-2010-14		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/18/2015	Surface water quality monitoring
SW-2010-15	SW-2010-15	N/A	SW-2010-15-1112	Surface Water	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/16/2012	Surface water quality monitoring
SW-2010-15	SW-2010-15	N/A	SW-2010-15		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/30/2013	Surface water quality monitoring
SW-2010-15	SW-2010-15	N/A	SW-2010-15		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/19/2013	Surface water quality monitoring
SW-2010-15	SW-2010-15	N/A	SW-2010-15		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/20/2014	Surface water quality monitoring
SW-2010-15	SW-2010-15	N/A	SW-2010-15		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/19/2014	Surface water quality monitoring
SW-2010-15	SW-2010-15	N/A	SW-2010-15		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	6/4/2015	Surface water quality monitoring
SW-2010-15	SW-2010-15	N/A	SW-2010-15		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/18/2015	Surface water quality monitoring
SW-2010-17	SW-2010-17	N/A	SW-2010-17-1112	Surface Water	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/16/2012	Surface water quality monitoring
SW-2010-17	SW-2010-17	N/A	SW-2010-17		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/30/2013	Surface water quality monitoring
SW-2010-17	SW-2010-17	N/A	SW-2010-17		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/19/2013	Surface water quality monitoring
SW-2010-17	SW-2010-17	N/A	SW-2010-17	Surface Water	Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/20/2014	Surface water quality monitoring
SW-2010-17	SW-2010-17	N/A	SW-2010-17	Surface Water	Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/19/2014	Surface water quality monitoring
SW-2010-17	SW-2010-17	N/A	SW-2010-17	Surface Water	Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	6/4/2015	Surface water quality monitoring
SW-2010-17	SW-2010-17	N/A	SW-2010-17		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/18/2015	Surface water quality monitoring
SW2014-20	SW2014-20	N/A	SW2014-20	Surface Water	Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/20/2014	Surface water quality monitoring
SW2014-20	SW2014-20	N/A	SW2014-20		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/19/2014	Surface water quality monitoring

TABLE 1: SUMMARY OF SOIL AND WATER COLLECTION DATA

SW2014-20	SW2014-20	N/A	SW2014-20	Surface Water	Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	6/4/2015	Surface water quality monitoring Sampled for treatability study of Metals and Pesticides in surface water
SW2014-20	SW2014-20	N/A	SW2014-20		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/18/2015	Surface water quality monitoring
SW2014-21	SW2014-21	N/A	SW2014-21	Surface Water	Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/20/2014	Surface water quality monitoring
SW2014-21	SW2014-21	N/A	SW2014-21		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/19/2014	Surface water quality monitoring
SW2014-21	SW2014-21	N/A	SW2014-21		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	6/4/2015	Surface water quality monitoring Sampled for treatability study of Metals and Pesticides in surface water
SW2014-21	SW2014-21	N/A	SW2014-21		Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/18/2015	Surface water quality monitoring
INFLOW-1	INFLOW-1	N/A	INFLOW-1	Surface Water	Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	3/31/2014	Surface water quality monitoring
INFLOW-1	INFLOW-1	N/A	INFLOW-1	Surface Water	Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/19/2014	Surface water quality monitoring
INFLOW-1	INFLOW-1	N/A	INFLOW-1	Surface Water	Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	6/4/2015	Surface water quality monitoring Sampled for treatability study of Metals and Pesticides in surface water
INFLOW-2	INFLOW-2	N/A	INFLOW-2	Surface Water	Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	3/31/2014	Surface water quality monitoring
INFLOW-2	INFLOW-2	N/A	INFLOW-2	Surface Water	Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/19/2014	Surface water quality monitoring
INFLOW-2	INFLOW-2	N/A	INFLOW-2	Surface Water	Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	6/4/2015	Surface water quality monitoring

Notes:

Arsenic, Lead, Copper, Iron, Manganese, and Zinc analyzed using USEPA Method 6020
Pesticides analyzed using USEPA Method 8081A
Nitrate and Sulfate, Chloride and Nitrite analyzed using USEPA Method 9056
As = arsenic, Cu = Copper, Fe = iron, Pb = lead, Mn = Managanese, Zn = zinc
bgs = below ground surface
na or N/A = not applicable
ft = feet
* top of well casing elevation

TABLE 2: SUMMARY OF GROUNDWATER ELEVATIONS

Well Number	Screened Interval (ft NGVD)			Lithology Screened	Top of Casing Elevation (ft., NGVD)	Depth to Ground Water on 1/7/1998 (ft., btoc)	Ground-Water Elevation on 1/7/1998 (ft., NGVD)	Depth to Ground Water on 5/29/1998 (ft., btoc)	Ground-Water Elevation on 5/29/1998 (ft., NGVD)	Depth to Ground Water (ft., btoc) 1/21/2000	Ground-Water Elevation (ft., NGVD) 1/21/2000	Depth to Ground Water (ft., btoc) 11/26/2002	Ground-Water Elevation (ft., NGVD) 11/26/2002
MW-1B	893.5	-	884.5	fine sandy silt to silty fine sand	915.95					28.54	887.41	24.37	891.58
MW-21	885.9	-	875.9	clayey silt to silty clay	905.70	23.92	881.78	22.56	883.14	27.64	878.06	dry	
MW-22	875.3	-	865.3	silty clay and clayey silt	894.23	16.05	878.18	15.68	878.55	19.76	874.47	18.20	876.03
MW-24	874.8	-	864.8	silty clay to clayey silt	897.31	22.73	874.58	21.01	876.30	27.30	870.01	25.24	872.07
MW-25	875.1	-	865.1	silty clay to clayey silt	895.05	24.54	870.51	23.05	872.00	28.59	866.46	27.00	868.05
MW-26	893.5	-	883.5	clayey silt	904.99	7.63	897.36	7.34	897.65	13.08	891.91	8.90	896.09
DW-1B	843.8	-	833.8	bedrock	915.50			31.35	884.15	39.75	875.75	37.75	877.75
MW-101	895.6	-	885.6	silty fine sand	912.55	13.35	899.20	12.73	899.82	18.15	894.40	14.00	898.55
MW-102	892.4	-	883.4	silty fine sand and PWR	915.19	23.2	891.99	22.80	892.39	24.08	891.11	22.00	893.19
MW-104A	868.3		858.8	silty very fine sand	898.00								
MW-104D	829.9	-	819.9	bedrock	901.59	16.31	885.28	15.59	886.00	20.37	881.22	17.08	884.51
MW-105	887.7		878.7	silty fine to medium sand	904.55	12.18	892.37	11.63	892.92	15.11	889.44	12.15	892.40
MW-106D	816.1	-	807.1	bedrock	878.60	11.41	867.19	11.02	867.58	12.73	865.87	11.85	866.75
MW-107D	817.5		808.0	bedrock	857.14								
MW-108	875.8	-	866.8	silty fine sand	901.91			16.73	885.18	21.60	880.31	19.01	882.90
MW-109	872.1	-	863.1	silty fine sand with brick fragments (fill)	895.90			12.16	883.74	16.58	879.32	13.88	882.02
MW-110	831.9	-	822.9	bedrock	900.52	21.61	878.91	21.28	879.24	25.08	875.44	22.90	877.62
MW-111	864.3	-	855.3	silty sand and PWR	900.10			16.26	883.84	20.59	879.51	18.60	881.50
MW-112	890.7	-	881.7	silty very fine sand	904.90			11.64	893.26	17.44	887.46	13.00	891.90
MW-113	866.2	-	857.2	sandy clayey silt	900.06			25.75	874.31	30.03	870.03	28.15	871.91
MW-114	856.8	-	847.8	silty clayey fine sand to silty fine sand	892.96			22.90	870.06	26.83	866.13	25.00	867.96
MW-115	880.5	-	871.5	silty sand with concrete fragments (fill)	893.40			10.90	882.50	14.98	878.42	12.82	880.58
MW-116	881.8	-	872.8	fine sand	905.62			21.97	883.65	31.65	873.97	29.15	876.47
MW-117	878.1	-	868.1	very sandy silt to very silty fine sand	892.42							11.94	880.48
MW-119	853.3	-	838.3	PWR and bedrock	892.16	not installed							
MW-120	836.1	-	826.1	bedrock	892.44								
MW-121	854.9	-	844.9	bedrock	879.45								
TW-1	878.3	-	868.3	sandy silt	893.00								
TW-2	878.5	-	868.5	sandy silt	897.89								
TW-3	867.5	-	857.5	sandy silt	897.44								
TW-4	875.4	-	865.4	sandy silt	899.36								
TW-5	869.0	-	859.0	silty sand	891.90								
TW-6	878.1	-	868.1	silty sand to sandy silt	908.34								
TW-7	877.1	-	867.1	clay to silty fine sand	899.22								
TW-8	880.3	-	870.3	silty sand to sandy silt	900.36								
TW-9	876.3	-	866.3	silt to sandy silt	901.56								
TW-10	876.4	-	866.4	sandy silt	896.56								
TW-11	882.9	-	872.9	sandy silty with rock fragments	918.08								
TW-12	893.8	-	883.8	silty sand with quartz fragments	929.03								

TABLE 2: SUMMARY OF GROUNDWATER ELEVATIONS

Well Number	Screened Interval (ft NGVD)	Lithology Screened	Top of Casing Elevation (ft., NGVD)	Depth to Ground Water on 1/7/1998 (ft., btoc)	Ground-Water Elevation on 1/7/1998 (ft., NGVD)	Depth to Ground Water on 5/29/1998 (ft., btoc)	Ground-Water Elevation on 5/29/1998 (ft., NGVD)	Depth to Ground Water (ft., btoc) 1/21/2000	Ground-Water Elevation (ft., NGVD) 1/21/2000	Depth to Ground Water (ft., btoc) 11/26/2002	Ground-Water Elevation (ft., NGVD) 11/26/2002
OW-1	878.7 - 858.7	silt to partially weathered rock	901.13	not installed							
OW-2	878.5 - 858.5	silt with quartz veins to partially weathered rock	901.14								
OW-3	878.6 - 858.6	silt with quartz veins to partially weathered rock	901.47								
Surface Water Location	**Screened Interval (ft NGVD)**	**Lithology Screened**	**Top of Staff Gauge Elevation (ft., NGVD)**	**Depth to Surface Water on 1/7/1998 (ft.)**	**Surface Water Elevation on 1/7/1998 (ft., NGVD)**	**Depth to Surface Water on 5/29/1998 (ft.)**	**Surface Water Elevation on 5/29/1998 (ft., NGVD)**	**Depth to Surface Water (ft.) 1/21/2000**	**Surface Water Elevation (ft., NGVD) 1/21/2000**	**Depth to Surface Water (ft.) 11/26/2002**	**Surface Water Elevation (ft., NGVD) 11/26/2002**
Upstream Staff Gauge@ MW-106D/MW-121[(1)] [Staff Gauge #1]	NA	un-named stream on CSX	865.80	2.9	862.90	3.10	862.70	Dry at gauge		1.52	864.28
Downstream Staff Gauge at railroad culvert [(1)] [Staff Gauge #2]	NA		858.90	7.9	851.00	8.10	850.80	1.03	857.87	8.65	850.25
Downstream Staff Gauge at at well MW-119/MW-120[(1)] [Staff Gauge #3]	NA		841.55	not installed							
Downstream Staff Gauge at well MW-107D[(1)] [Staff Gauge #4]	NA		837.66								

TABLE 2: SUMMARY OF GROUNDWATER ELEVATIONS

Well Number	Screened Interval (ft NGVD)			Lithology Screened	Top of Casing Elevation (ft., NGVD)	Depth to Ground Water (ft., btoc) 8/20/2007	Ground-Water Elevation (ft., NGVD) 8/20/2007	Depth to Ground Water (ft., btoc) 9/20/2007	Ground-Water Elevation (ft., NGVD) 9/20/2007	Depth to Ground Water (ft., btoc) 7/29/2010	Ground-Water Elevation (ft., NGVD) 7/29/2010	Depth to Ground Water (ft., btoc) 9/14/2010	Ground-Water Elevation (ft., NGVD) 9/14/2010
MW-1B	893.5	-	884.5	fine sandy silt to silty fine sand	915.95	28.47	887.48	22.98	892.97	23.60	892.35	26.40	889.55
MW-21	885.9	-	875.9	clayey silt to silty clay	905.70	dry		dry		24.57	881.13	dry	
MW-22	875.3	-	865.3	silty clay and clayey silt	894.23	20.88	873.35			18.16	876.07	19.46	874.77
MW-24	874.8	-	864.8	silty clay to clayey silt	897.31	dry		dry		not measured		24.01	873.30
MW-25	875.1	-	865.1	silty clay to clayey silt	895.05	28.31	866.74	not measured				25.56	869.49
MW-26	893.5	-	883.5	clayey silt	904.99	13.57	891.42	not measured		10.04	894.95	11.75	893.24
DW-1B	843.8	-	833.8	bedrock	915.50	not measured		not measured		34.42	881.08	36.40	879.10
MW-101	895.6	-	885.6	silty fine sand	912.55	18.11	894.44	not measured		15.12	897.43	16.80	895.75
MW-102	892.4	-	883.4	silty fine sand and PWR	915.19	26.17	889.02	not measured		23.58	891.61	24.82	890.37
MW-104A	868.3		858.8	silty very fine sand	898.00	16.73	881.27	not measured		not measured		14.63	883.37
MW-104D	829.9	-	819.9	bedrock	901.59	21.80	879.79	20.77	880.82	not measured		16.77	884.82
MW-105	887.7		878.7	silty fine to medium sand	904.55	15.96	888.59	not measured		not measured		15.00	889.55
MW-106D	816.1	-	807.1	bedrock	878.60	32.90	845.70	33.08	845.52	not measured		25.78	852.82
MW-107D	817.5		808.0	bedrock	857.14	25.63	831.51	26.07	831.07	not measured		22.99	834.15
MW-108	875.8	-	866.8	silty fine sand	901.91	22.50	879.41	not measured		19.69	882.22	21.23	880.68
MW-109	872.1	-	863.1	silty fine sand with brick fragments (fill)	895.90	17.25	878.65	not measured		not measured		15.57	880.33
MW-110	831.9	-	822.9	bedrock	900.52	31.35	869.17	not measured		27.11	873.41	28.31	872.21
MW-111	864.3	-	855.3	silty sand and PWR	900.10	21.86	878.24	not measured		not measured		20.33	879.77
MW-112	890.7	-	881.7	silty very fine sand	904.90	18.13	886.77	not measured		14.31	890.59	16.35	888.55
MW-113	866.2	-	857.2	sandy clayey silt	900.06	30.85	869.21	not measured		not measured		29.21	870.85
MW-114	856.8	-	847.8	silty clayey fine sand to silty fine sand	892.96	26.91	866.05	not measured		not measured		25.14	867.82
MW-115	880.5	-	871.5	silty sand with concrete fragments (fill)	893.40	16.00	877.40	not measured		not measured		15.16	878.24
MW-116	881.8	-	872.8	fine sand	905.62	30.61	875.01	not measured		23.20	882.42	25.44	880.18
MW-117	878.1	-	868.1	very sandy silt to very silty fine sand	892.42	13.91	878.51	not measured		not measured		13.17	879.25
MW-119	853.3	-	838.3	PWR and bedrock	892.16	not installed							
MW-120	836.1	-	826.1	bedrock	892.44								
MW-121	854.9	-	844.9	bedrock	879.45								
TW-1	878.3	-	868.3	sandy silt	893.00								
TW-2	878.5	-	868.5	sandy silt	897.89								
TW-3	867.5	-	857.5	sandy silt	897.44								
TW-4	875.4	-	865.4	sandy silt	899.36								
TW-5	869.0	-	859.0	silty sand	891.90								
TW-6	878.1	-	868.1	silty sand to sandy silt	908.34								
TW-7	877.1	-	867.1	clay to silty fine sand	899.22								
TW-8	880.3	-	870.3	silty sand to sandy silt	900.36								
TW-9	876.3	-	866.3	silt to sandy silt	901.56								
TW-10	876.4	-	866.4	sandy silt	896.56								
TW-11	882.9	-	872.9	sandy silty with rock fragments	918.08								
TW-12	893.8	-	883.8	silty sand with quartz fragments	929.03								

TABLE 2: SUMMARY OF GROUNDWATER ELEVATIONS

Well Number	Screened Interval (ft NGVD)			Lithology Screened	Top of Casing Elevation (ft., NGVD)	Depth to Ground Water (ft., btoc) 8/20/2007	Ground-Water Elevation (ft., NGVD) 8/20/2007	Depth to Ground Water (ft., btoc) 9/20/2007	Ground-Water Elevation (ft., NGVD) 9/20/2007	Depth to Ground Water (ft., btoc) 7/29/2010	Ground-Water Elevation (ft., NGVD) 7/29/2010	Depth to Ground Water (ft., btoc) 9/14/2010	Ground-Water Elevation (ft., NGVD) 9/14/2010
OW-1	878.7	-	858.7	silt to partially weathered rock	901.13	not installed							
				silt with quartz veins to partially									
OW-2	878.5	-	858.5	weathered rock	901.14								
OW-3	878.6	-	858.6	silt with quartz veins to partially weathered rock	901.47								

Surface Water Location	Screened Interval (ft NGVD)	Lithology Screened	Top of Staff Gauge Elevation (ft., NGVD)	Depth to Surface Water (ft., btoc) 8/20/2007	Surface Water Elevation (ft., NGVD) 8/20/2007	Depth to SurfaceWater (ft., btoc) 9/20/2007	Surface Water Elevation (ft., NGVD) 9/20/2007	Depth to Surface Water (ft., btoc) 7/29/2010	Surface Water Elevation (ft., NGVD) 7/29/2010	Depth to Surface Water (ft., btoc) 9/14/2010	Surface Water Elevation (ft., NGVD) 9/14/2010
Upstream Staff Gauge@ MW-106D/MW-121[(1)] [Staff Gauge #1]	NA	un-named stream on CSX	865.80	2.12	860.91	2.13	860.90	not measured		2.1	860.9
Downstream Staff Gauge at railroad culvert [(1)] [Staff Gauge #2]	NA		858.90	8.10	850.52	7.89	850.73	not measured		7.8	850.8
Downstream Staff Gauge at at well MW-119/MW-120[(1)] [Staff Gauge #3]	NA		841.55	not installed							
Downstream Staff Gauge at well MW-107D[(1)] [Staff Gauge #4]	NA		837.66								

TABLE 2: SUMMARY OF GROUNDWATER ELEVATIONS

Well Number	Screened Interval (ft NGVD)			Lithology Screened	Top of Casing Elevation (ft., NGVD)	Depth to Ground Water (ft., btoc) May 30-31, 2012	Ground-Water Elevation (ft., NGVD) June 2012	Depth to Ground Water (ft., btoc) 12/7/2012	Ground-Water Elevation (ft., NGVD) 12/7/2012	Depth to Ground Water (ft., btoc) 5/20/2013 & 5/30/2013[2]	Ground-Water Elevation (ft., NGVD) 5/20/2013 & 5/30/2013[2]
MW-1B	893.5	-	884.5	fine sandy silt to silty fine sand	915.95	not measured		29.65	886.30	23.93	892.02
MW-21	885.9	-	875.9	clayey silt to silty clay	905.70	not measured		dry		dry	
MW-22	875.3	-	865.3	silty clay and clayey silt	894.23	not measured		22.52	871.71	18.35	875.88
MW-24	874.8	-	864.8	silty clay to clayey silt	897.31	not measured		damaged		damaged	
MW-25	875.1	-	865.1	silty clay to clayey silt	895.05	not measured		dry		27.87	867.18
MW-26	893.5	-	883.5	clayey silt	904.99	not measured		15.48	889.51	9.30	895.69
DW-1B	843.8	-	833.8	bedrock	915.50	not measured		not measured		39.85	875.65
MW-101	895.6	-	885.6	silty fine sand	912.55	not measured		20.21	892.34	14.68	897.87
MW-102	892.4	-	883.4	silty fine sand and PWR	915.19	not measured		26.46	888.73	22.59	892.60
MW-104A	868.3		858.8	silty very fine sand	898.00	not measured		17.35	880.65	12.82	885.18
MW-104D	829.9	-	819.9	bedrock	901.59	not measured		20.91	880.68	16.52	885.07
MW-105	887.7		878.7	silty fine to medium sand	904.55	not measured		17.11	887.44	12.15	892.40
MW-106D	816.1	-	807.1	bedrock	878.60	not measured		28.49	850.11	26.85	851.75
MW-107D	817.5		808.0	bedrock	857.14	not measured		24.23	832.91	20.49	836.65
MW-108	875.8	-	866.8	silty fine sand	901.91	not measured		25.24	876.67	18.91	883.00
MW-109	872.1	-	863.1	silty fine sand with brick fragments (fill)	895.90	not measured		20.41	875.49	13.63	882.27
MW-110	831.9	-	822.9	bedrock	900.52	not measured		31.63	868.89	26.74	873.78
MW-111	864.3	-	855.3	silty sand and PWR	900.10	not measured		24.53	875.57	18.74	881.36
MW-112	890.7	-	881.7	silty very fine sand	904.90	not measured		20.12	884.78	12.43	892.47
MW-113	866.2	-	857.2	sandy clayey silt	900.06	not measured		32.19	867.87	28.53	871.53
MW-114	856.8	-	847.8	silty clayey fine sand to silty fine sand	892.96	not measured		29.20	863.76	26.21	866.75
MW-115	880.5	-	871.5	silty sand with concrete fragments (fill)	893.40	not measured		18.46	874.94	13.22	880.18
MW-116	881.8	-	872.8	fine sand	905.62	not measured		32.83	872.79	29.25	876.37
MW-117	878.1	-	868.1	very sandy silt to very silty fine sand	892.42	not measured		15.54	876.88	12.40	880.02
MW-119	853.3	-	838.3	PWR and bedrock	892.16	not installed		42.28	849.88	42.19	849.97
MW-120	836.1	-	826.1	bedrock	892.44	not installed		45.47	846.97	45.19	847.25
MW-121	854.9	-	844.9	bedrock	879.45	not installed		17.66	861.79	16.35	863.10
TW-1	878.3	-	868.3	sandy silt	893.00	16.00	877.00	17.44	875.56	13.86	879.14
TW-2	878.5	-	868.5	sandy silt	897.89	22.44	875.45	24.90	872.99	20.48	877.41
TW-3	867.5	-	857.5	sandy silt	897.44	26.85	870.59	29.85	867.59	25.21	872.23
TW-4	875.4	-	865.4	sandy silt	899.36	27.70	871.66	30.65	868.71	27.14	872.22
TW-5	869.0	-	859.0	silty sand	891.90	22.57	869.33	25.28	866.62	21.61	870.29
TW-6	878.1	-	868.1	silty sand to sandy silt	908.34	25.71	882.63	29.19	879.15	23.11	885.23
TW-7	877.1	-	867.1	clay to silty fine sand	899.22	21.48	877.74	24.59	874.63	18.97	880.25
TW-8	880.3	-	870.3	silty sand to sandy silt	900.36	19.98	880.38	23.66	876.70	17.21	883.15
TW-9	876.3	-	866.3	silt to sandy silt	901.56	21.49	880.07	24.68	876.88	18.2	883.36
TW-10	876.4	-	866.4	sandy silt	896.56	18.35	878.21	21.42	875.14	15.36	881.20
TW-11	882.9	-	872.9	sandy silty with rock fragments	918.08	30.75	887.33	33.71	884.37	29.85	888.23
TW-12	893.8	-	883.8	silty sand with quartz fragments	929.03	34.80	894.23	37.52	891.51	33.51	895.52

TABLE 2: SUMMARY OF GROUNDWATER ELEVATIONS

Well Number	Screened Interval (ft NGVD)			Lithology Screened	Top of Casing Elevation (ft., NGVD)	Depth to Ground Water (ft., btoc) May 30-31, 2012	Ground-Water Elevation (ft., NGVD) June 2012	Depth to Ground Water (ft., btoc) 12/7/2012	Ground-Water Elevation (ft., NGVD) 12/7/2012	Depth to Ground Water (ft., btoc) 5/20/2013 & 5/30/2013[2]	Ground-Water Elevation (ft., NGVD) 5/20/2013 & 5/30/2013[2]
OW-1	878.7	-	858.7	silt to partially weathered rock	901.13	not installed				19.97	881.16
				silt with quartz veins to partially							
OW-2	878.5	-	858.5	weathered rock	901.14					20.47	880.67
OW-3	878.6	-	858.6	silt with quartz veins to partially weathered rock	901.47					20.83	880.64

Surface Water Location	Screened Interval (ft NGVD)	Lithology Screened	Top of Staff Gauge Elevation (ft., NGVD)	Depth to Surface Water (ft., btoc) May 30-31, 2012	Surface Water Elevation (ft., NGVD) June 2012	Depth to Surface Water (ft., btoc) 12/7/2012	Surface Water Elevation (ft., NGVD) 12/7/2012	Depth to Surface Water (ft., btoc) 5/30/2013	Surface Water Elevation (ft., NGVD) 5/30/2013
Upstream Staff Gauge@ MW-106D/MW-121[1] [Staff Gauge #1]	NA	un-named stream on CSX	865.80	not measured		3.02	860.01	3.11	862.69
Downstream Staff Gauge at railroad culvert [1] [Staff Gauge #2]	NA		858.90	not measured		7.96	850.66	8.05	850.85
Downstream Staff Gauge at at well MW-119/MW-120[1] [Staff Gauge #3]	NA		841.55	not installed				2.5	839.05
Downstream Staff Gauge at well MW-107D[1] [Staff Gauge #4]	NA		837.66					1.64	836.02

Ground Surface Elevation (ft, NGVD)*	Well Number	Ground Surface Elevation (ft, NGVD)*	Depth to Ground Water (ft, bgs)**	Ground-Water Elevation (ft., NGVD)
889	MW-1 (BFI)	889	29	860
894	MW-2 (BFI)	894	24	870
899	MW-3 (BFI)	899	27	872

TABLE 2: SUMMARY OF GROUNDWATER ELEVATIONS

Well Number	Screened Interval (ft NGVD)			Lithology Screened	Top of Casing Elevation (ft., NGVD)	Depth to Ground Water (ft., btoc) 11/11-12/2013	Ground-Water Elevation (ft., NGVD) 11/11-12/2013	Depth to Ground Water (ft., btoc) 5/12/2014	Ground-Water Elevation (ft., NGVD) 5/12/2014	Depth to Ground Water (ft., btoc) 11/10/2014	Ground-Water Elevation (ft., NGVD) 11/10/2014	Depth to Ground Water (ft., btoc) 5/26-5/27/2015	Ground-Water Elevation (ft., NGVD) 5/26-5/27/2015	Depth to Ground Water (ft., btoc) 11/9/2015	Ground-Water Elevation (ft., NGVD) 11/9/2015
MW-1B	893.5	-	884.5	fine sandy silt to silty fine sand	915.95	24.97	890.98	22.40	893.55	26.37	889.58	22.96	892.99	23.88	892.07
MW-21	885.9	-	875.9	clayey silt to silty clay	905.70	dry		23.78	881.92	dry		26.01	879.69	dry	
MW-22	875.3	-	865.3	silty clay and clayey silt	894.23	19.71	874.52	17.40	876.83	20.40	873.83	19.10	875.13	18.33	875.90
MW-24	874.8	-	864.8	silty clay to clayey silt	897.31	damaged		damaged		damaged		damaged		destroyed	
MW-25	875.1	-	865.1	silty clay to clayey silt	895.05	29.20	865.85	could not locate-not measured		28.35	866.70	26.54	868.51	27.99	867.06
MW-26	893.5	-	883.5	clayey silt	904.99	10.76	894.23	8.13	896.86	12.42	892.57	9.94	895.05	9.69	895.30
DW-1B	843.8	-	833.8	bedrock	915.50	not measured-could not locate		could not locate-not measured		40.04	875.46	38.16	877.34	39.35	876.15
MW-101	895.6	-	885.6	silty fine sand	912.55	15.95	896.60	13.75	898.80	17.42	895.13	15.23	897.32	14.78	897.77
MW-102	892.4	-	883.4	silty fine sand and PWR	915.19	23.95	891.24	22.03	893.16	25.08	890.11	23.23	891.96	23.63	891.56
MW-104A	868.3		858.8	silty very fine sand	898.00	13.53	884.47	12.08	885.92	14.85	883.15	13.24	884.76	13.31	884.69
MW-104D	829.9	-	819.9	bedrock	901.59	17.21	884.38	15.79	885.80	18.76	882.83	16.94	884.65	16.93	884.66
MW-105	887.7		878.7	silty fine to medium sand	904.55	14.65	889.90	11.63	892.92	15.38	889.17	12.81	891.74	13.53	891.02
MW-106D	816.1	-	807.1	bedrock	878.60	26.97	851.63	26.07	852.53	27.42	851.18	25.27	853.33	25.18	853.42
MW-107D	817.5		808.0	bedrock	857.14	21.54	835.60	19.74	837.40	22.48	834.66	21.62	835.52	21.73	835.41
MW-108	875.8	-	866.8	silty fine sand	901.91	20.85	881.06	18.03	883.88	22.09	879.82	19.30	882.61	20.49	881.42
MW-109	872.1	-	863.1	silty fine sand with brick fragments (fill)	895.90	15.76	880.14	12.88	883.02	17.11	878.79	14.25	881.65	14.70	881.20
MW-110	831.9	-	822.9	bedrock	900.52	27.59	872.93	25.32	875.20	28.76	871.76	26.84	873.68	27.58	872.94
MW-111	864.3	-	855.3	silty sand and PWR	900.10	20.29	879.81	17.52	882.58	21.46	878.64	18.86	881.24	20.58	879.52
MW-112	890.7	-	881.7	silty very fine sand	904.90	15.23	889.67	10.98	893.92	17.16	887.74	14.01	890.89	14.48	890.42
MW-113	866.2	-	857.2	sandy clayey silt	900.06	29.64	870.42	27.24	872.82	30.30	869.76	27.68	872.38	27.83	872.23
MW-114	856.8	-	847.8	silty clayey fine sand to silty fine sand	892.96	26.74	866.22	24.45	868.51	27.06	865.90	25.18	867.78	25.75	867.21
MW-115	880.5	-	871.5	silty sand with concrete fragments (fill)	893.40	14.85	878.55	12.11	881.29	15.91	877.49	13.30	880.10	14.14	879.26
MW-116	881.8	-	872.8	fine sand	905.62	29.41	876.21	25.33	880.29	29.95	875.67	29.05	876.57	30.84	874.78
MW-117	878.1	-	868.1	very sandy silt to very silty fine sand	892.42	13.16	879.26	10.91	881.51	13.81	878.61	12.08	880.34	13.09	879.33
MW-119	853.3	-	838.3	PWR and bedrock	892.16	41.51	850.65	41.21	850.95	42.68	849.48	42.31	849.85	41.60	850.56
MW-120	836.1	-	826.1	bedrock	892.44	44.75	847.69	44.45	847.99	45.12	847.32	44.62	847.82	44.08	848.36
MW-121	854.9	-	844.9	bedrock	879.45	16.69	862.76	16.31	863.14	17.19	862.26	16.38	863.07	14.41	865.04
TW-1	878.3	-	868.3	sandy silt	893.00	15.05	877.95	13.05	879.95	15.69	877.31	14.93	878.07	14.13	878.87
TW-2	878.5	-	868.5	sandy silt	897.89	21.71	876.18	18.93	878.96	22.48	875.41	21.10	876.79	21.30	876.59
TW-3	867.5	-	857.5	sandy silt	897.44	25.89	871.55	22.52	874.92	26.51	870.93	24.61	872.83	25.45	871.99
TW-4	875.4	-	865.4	sandy silt	899.36	26.95	872.41	23.61	875.75	27.05	872.31	26.25	873.11	27.42	871.94
TW-5	869.0	-	859.0	silty sand	891.90	21.71	870.19	18.06	873.84	21.91	869.99	22.03	869.87	21.89	870.01
TW-6	878.1	-	868.1	silty sand to sandy silt	908.34	24.17	884.17	20.50	887.84	25.53	882.81	22.79	885.55	24.91	883.43
TW-7	877.1	-	867.1	clay to silty fine sand	899.22	20.01	879.21	16.63	882.59	21.15	878.07	18.66	880.56	20.51	878.71
TW-8	880.3	-	870.3	silty sand to sandy silt	900.36	18.85	881.51	15.68	884.68	20.03	880.33	17.42	882.94	19.37	880.99
TW-9	876.3	-	866.3	silt to sandy silt	901.56	20.15	881.41	16.94	884.62	21.39	880.17	18.66	882.90	20.33	881.23
TW-10	876.4	-	866.4	sandy silt	896.56	17.45	879.11	14.19	882.37	18.62	877.94	16.79	879.77	17.40	879.16
TW-11	882.9	-	872.9	sandy silty with rock fragments	918.08	29.58	888.50	26.93	891.15	30.41	887.67	29.77	888.31	30.84	887.24
TW-12	893.8	-	883.8	silty sand with quartz fragments	929.03	32.99	896.04	30.75	898.28	34.25	894.78	33.65	895.38	34.13	894.90

TABLE 2: SUMMARY OF GROUNDWATER ELEVATIONS

Well Number	Screened Interval (ft NGVD)			Lithology Screened	Top of Casing Elevation (ft., NGVD)	Depth to Ground Water (ft., btoc) 11/11-12/2013	Ground-Water Elevation (ft., NGVD) 11/11-12/2013	Depth to Ground Water (ft., btoc) 5/12/2014	Ground-Water Elevation (ft., NGVD) 5/12/2014	Depth to Ground Water (ft., btoc) 11/10/2014	Ground-Water Elevation (ft., NGVD) 11/10/2014	Depth to Ground Water (ft., btoc) 5/26-5/27/2015	Ground-Water Elevation (ft., NGVD) 5/26-5/27/2015	Depth to Ground Water (ft., btoc) 11/9/2015	Ground-Water Elevation (ft., NGVD) 11/9/2015
OW-1	878.7	-	858.7	silt to partially weathered rock	901.13	19.80	881.33	16.98	884.15	21.20	879.93	18.66	882.47	20.45	880.68
				silt with quartz veins to partially											
OW-2	878.5	-	858.5	weathered rock	901.14	20.37	880.77	17.52	883.62	21.70	879.44	19.10	882.04	20.80	880.34
OW-3	878.6	-	858.6	silt with quartz veins to partially weathered rock	901.47	20.7	880.77	17.74	883.73	22.00	879.47	19.39	882.08	21.32	880.15
Surface Water Location	**Screened Interval (ft NGVD)**			**Lithology Screened**	**Top of Staff Gauge Elevation (ft., NGVD)**	**Depth to Surface Water (ft., btoc) 11/19/2013**	**Surface Water Elevation (ft., NGVD) 11/19/2013**	**Depth to Surface Water (ft., btoc) 5/20/2014**	**Surface Water Elevation (ft., NGVD) 5/20/2014**	**Depth to Surface Water (ft., btoc) 11/19/2014**	**Surface Water Elevation (ft., NGVD) 11/19/2014**	**Depth to Surface Water (ft., btoc) 5/29/2015**	**Surface Water Elevation (ft., NGVD) 5/29/2015**	**Depth to Surface Water (ft., btoc) 11/9/2015**	**Surface Water Elevation (ft., NGVD) 11/9/2015**
Upstream Staff Gauge@ MW-106D/MW-121[(1)] [Staff Gauge #1]	NA			un-named stream on CSX	865.80	3.86	861.94	3.06	862.74	3.14	862.66	3.05	862.75	3.06	862.74
Downstream Staff Gauge at railroad culvert [(1)] [Staff Gauge #2]	NA				858.90	7.90	851.00	8.03	850.87	8.02	850.88	8.07	850.83	7.59	851.31
Downstream Staff Gauge at at well MW-119/MW-120[(1)] [Staff Gauge #3]	NA				841.55	2.21	839.34	2.35	839.20	2.65	838.90	1.78	839.77	1.41	840.14
Downstream Staff Gauge at well MW-107D[(1)] [Staff Gauge #4]	NA				837.66	1.15	836.51	1.25	836.41	1.52	836.14	1.44	836.22	1.31	836.35

Notes:

ft. = feet
NGVD = National Geodetic Vertical Datum
Monitoring wells MW-1, MW-1A, MW-2 through MW-15, MW-18, MW-19, MW-20, MW-23, MW-27, DW-1A, DW-2A, DW-2B, MW-103A, MW-103D, MW-104, and MW-118 have been abandoned.

Monitoring wells MW-7, MW-103, MW-106 and MW-107 were not installed.
Monitoring wells MW-5, MW-10, MW-16 and MW-17 could not be located and assumed to have been destroyed.
* Ground surface elevations are from Fulton County, Georgia GIS website www.wms.co.fulton.ga.us/ms/master
** Depth to ground water is from Jordan, Jones & Goulding, Inc., 1993b, Phase II Investigation of the CSX Site Located on Marietta Boulevard, Atlanta, Georgia, June 1993.

(1) new staff gauges installed and surveyed on 5/24/2013
(2) Monitoring wells MW-106D, MW-107D, MW-119, MW-120, and MW-121 were remeasured on 5/30/2013 when new staff gauges were surveyed and measured.
2013 Groundwater levels in OW-1, OW-2, and OW-3 were measured on 4/15/2013 and 10/19/2013 as part of the quarterly EHC-M pilot test study (shown under 5/20/2013 and 11/11-12/2013, respectively)

Prepared by: MHA 12/16/2015
Checked by: RNQ 1/7/2016

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	**TW-1**	**TW-1**	**TW-1**	**TW-1**	**TW-1**	**TW-1**	**TW-1**	**TW-2**	**TW-2**
Sample Date	*Concentrations*	**11/11/2015**	**5/28/2015**	**11/12/2014**	**5/14/2014**	**11/13/2013**	**05/29/2013**	**05/30/2012**	**11/12/2015**	**5/28/2015**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**0.00499**	**0.00288**	**0.00495**	**0.00312**	**0.00247**	**0.0132**	<0.002	<0.002	<0.002
Total Lead	0.015	**0.00302**	**0.00193**	**0.00102**	**0.00119**	<0.001	**0.0118**	<0.001	<0.001	<0.001
Total Zinc	2	**0.119**	**0.224**	**0.319**	**0.300**	**0.361**	**0.373**	**0.178**	<0.01	<0.01
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	<0.002	<0.002	**0.0027**	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	2	**0.105**	**0.202**	**0.283**	**0.270**	**0.318**	**0.333**	**0.180**	<0.01	<0.01
Total of Total Metals Concentrations		0.12701	0.22881	0.32497	0.30431	0.36347	0.398	0.1781	BDL	BDL
Total of Dissolved Metals Concentrations		0.105	0.202	0.2857	0.27	0.318	0.333	0.1802	BDL	BDL
Inorganics mg/L										
Nitrate	10 (NR)	<0.25	<0.25	<0.25	<0.25	<0.25	**0.29**	<0.25	**4.8**	**4.3**
Sulfate	250 (NR)	**31**	**60**	**46**	**63**	**54**	**61**	**60**	**80**	**84**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	**0.0014**	**0.002**	**0.00087**	**0.00054**	**0.00040**	**0.00059**	**0.00042**	<0.0001	<0.0001
4,4´-DDE	0.0001	**0.0014**	**0.0019**	**0.0031**	**0.0019**	**0.0013**	**0.0047**	**0.00050**	<0.0001	<0.0001
4,4´-DDT	0.0001	**0.0017**	**0.0017**	**0.0052**	**0.0043**	**0.0025**	**0.0037**	**0.00049**	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.0015**	**0.00053**	**0.0002**	**0.0015**	**0.00041**	**0.00043**	**0.0037**	<0.00005	<0.00005
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.033**	**0.0061**	**0.0041**	**0.018**	**0.0081**	**0.0200**	**0.0087**	<0.00005	<0.00005
delta-BHC	0.00005(DL)	**0.0014**	**0.00056**	**0.00023**	**0.0016**	**0.00056**	**0.0013**	**0.00047**	<0.00005	<0.00005
Dieldrin	0.0001(DL)	**0.00016**	<0.0001	<0.0001	<0.0001	**0.0017**	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.00074**	**0.00033**	**0.00016**	**0.00076**	**0.00025**	**0.00026**	**0.00030**	<0.00005	<0.00005
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	**0.0056**	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.04130	0.01312	0.01386	0.03420	0.01522	0.03098	0.01452	BDL	BDL
pH (std units)		6.41	6.01	5.81	5.73	5.92	5.6	6.19	5.16	5.08
Specific Conductance (mS/cm)		0.451	0.283	0.449	0.416	0.445	0.383	0.36	0.415	0.27
Turbidity (NTUs)		>100	9.79	10.7	2	9.81	48.1	0.75	0.3	0
DO (mg/L)		1.03	0.3	0.95	1.84	1.09	10.15		1.3	0.18
ORP (mV)		-5	59	-33	114	77	170		182	193

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	TW-2	TW-2	TW-2	TW-2	TW-2	TW-3	TW-3	TW-3	TW-3
Sample Date	*Concentrations*	**11/12/2014**	**5/14/2014**	**11/14/2013**	**05/29/2013**	**05/30/2012**	**11/12/2015**	**6/5/2015**	**11/13/2014**	**5/15/2014**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	<0.002	<0.002	<0.002	**0.0137**	<0.002	**0.624**	**0.884**	**0.820**	**0.695**
Total Lead	0.015	<0.001	<0.001	<0.001	**0.00445**	<0.001	**0.00281**	**0.00544**	**0.00301**	**0.00407**
Total Zinc	2	<0.010	<0.010	**0.0102**	**0.0273**	**0.0109**	**1.65**	**2.16**	**2.120**	**1.95**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	<0.002	<0.002	<0.002	<0.002	<0.002	**0.646**	**0.724**	**0.842**	**0.672**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00238**	**0.00309**	**0.00308**	**0.00336**
Dissolved Zinc	2	<0.010	<0.01	<0.01	<0.01	<0.01	**1.67**	**2.08**	**2.19**	**1.9**
Total of Total Metals Concentrations		BDL	BDL	0.0102	0.04545	0.01091	2.27681	3.04944	2.94301	2.64907
Total of Dissolved Metals Concentrations		BDL	BDL	BDL	BDL	BDL	2.31838	2.80709	3.03508	2.57536
Inorganics mg/L										
Nitrate	10 (NR)	**3.5**	**4.1**	**5.6**	**4.6**	**4.3**	<12	**38**	**6.2**	**7.4**
Sulfate	250 (NR)	**66**	**81**	**93**	**88**	**68**	**600**	**530**	**600**	**600**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	**0.0001**	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	**0.000070**	**0.0016**	**0.001200**	**0.000870**	**0.00095**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	**0.00014**	**0.0015**	**0.00110**	**0.0011**	**0.0012**
delta-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	**0.000057**	**0.00051**	**0.000410**	**0.000360**	**0.00040**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	**0.00044**	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	**0.00071**	**0.00051**	0.00035	**0.00042**
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		BDL	BDL	0.00054	BDL	0.00026	0.00432	0.00322	0.00268	0.00297
pH (std units)		5.51	5.71	5.56	5.43	6.03	3.6	2.49	3.69	4.03
Specific Conductance (mS/cm)		0.412	0.356	0.405	0.386	0.38	1.34	0.958	1.44	1.27
Turbidity (NTUs)		1.5	8.5	9.89	9.8	2.27	6	4.2	7.7	1.8
DO (mg/L)		0.93	1.43	1.89	5.86		0.84	0.54	1.88	2.17
ORP (mV)		-40	135	139	246		367	383	428	227

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	TW-3	TW-3	TW-3	TW-4	TW-4	TW-4	TW-4	TW-4	TW-4
Sample Date	*Concentrations*	**11/14/2013**	**05/30/2013**	**05/31/2012**	**11/12/2015**	**5/29/2015**	**11/13/2014**	**5/15/2014**	**11/15/2013**	**05/30/2013**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**0.933**	**1.12**	**1.09**	**0.134**	**0.149**	**0.166**	**0.166**	**0.234**	**0.127**
Total Lead	0.015	**0.00499**	**0.00466**	**0.00266**	**0.00274**	**0.00349**	<0.001	<0.001	<0.001	**0.0116**
Total Zinc	2	**2.55**	**2.92**	**2.14**	**0.626**	**0.793**	**0.884**	**0.968**	**1.27**	**0.847**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**0.845**	**1.05**	**1.01**	**0.126**	**0.145**	**0.151**	**0.161**	**0.216**	**0.113**
Dissolved Lead	0.015	**0.00334**	**0.00346**	**0.00175**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	2	**2.04**	**2.74**	**2.00**	**0.622**	**0.752**	**0.836**	**0.944**	**1.14**	**0.879**
Total of Total Metals Concentrations		3.48799	4.04466	3.231657	0.76274	0.94549	1.05	1.134	1.504	0.9856
Total of Dissolved Metals Concentrations		2.88834	3.79346	3.005752	0.748	0.897	0.987	1.105	1.356	0.992
Inorganics mg/L										
Nitrate	10 (NR)	**11**	**12**	**9.5**	**0.85**	**0.82**	**1.8**	**3.0**	**2.8**	**1.4**
Sulfate	250 (NR)	**640**	**600**	**550**	**130**	**140**	**160**	**190**	**220**	**190**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.00055**	**0.00049**	**0.00063**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	**0.000093**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.00072**	**0.00077**	**0.0010**	**0.0086**	**0.0094**	**0.00062**	**0.0077**	**0.0091**	**0.0094**
delta-BHC	0.00005(DL)	**0.00019**	**0.00017**	**0.00027**	**0.000085**	**0.00021**	**0.000083**	**0.00021**	**0.00026**	**0.00044**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	**0.00015**	**0.00013**	**0.00011**	**0.00017**	**0.00015**	**0.00026**
gamma-BHC	0.0002	**0.00022**	**0.00021**	**0.00026**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.00168	0.00164	0.00219	0.00884	0.00974	0.00081	0.00808	0.00951	0.01019
pH (std units)		3.75	3.9	4.33	4.18	4	4.07	4.24	4.34	4.84
Specific Conductance (mS/cm)		1.49	1.51	1.43	0.37	0.268	0.45	0.481	0.564	0.48
Turbidity (NTUs)		9.56	35.5	8.82	0.5	0	0.0	0.7	8.9	56.6
DO (mg/L)		0.63	1.38		1.41	1.17	2.79	4.01	2.24	6.03
ORP (mV)		441	486		327	365	300	219	399	360

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	TW-4	TW-5	TW-5	TW-5	TW-5	TW-5	TW-5	TW-5	TW-6
Sample Date	*Concentrations*	**05/31/2012**	**11/13/2015**	**6/1/2015**	**11/13/2014**	**05/21/2014**	**11/15/2013**	**05/29/2013**	**05/30/2012**	**11/16/2015**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0125**	**0.0087**	<0.005	**0.00587**
Total Copper	1.3	**0.139**	**1.05**	**1.5**	**1.400**	**1.48**	**1.71**	**1.58**	**0.865**	**0.643**
Total Lead	0.015	<0.001	**0.0017**	**0.00149**	0.0025	**0.00198**	**0.0716**	**0.0257**	**0.0029**	<0.001
Total Zinc	2	**0.902**	**8.49**	**33.6**	**17.4**	**14.5**	**18.9**	**11.6**	**13.7**	**35.7**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**0.128**	**1.04**	**1.32**	**1.29**	**1.66**	**1.080**	**1.57**	**0.751**	**0.556**
Dissolved Lead	0.015	<0.001	**0.00118**	**0.00106**	0.00169	**0.00228**	**0.00687**	**0.00276**	<0.001	<0.001
Dissolved Zinc	2	**0.847**	**8.55**	**12.8**	**19.6**	**15.8**	**15.1**	**11.0**	**8.6**	**29.3**
Total of Total Metals Concentrations		1.0416	9.5417	35.10149	18.8025	15.98198	20.6941	13.2144	14.5678	36.34887
Total of Dissolved Metals Concentrations		0.9745	9.5912	14.1211	20.8917	17.46228	16.18687	12.57276	9.351	29.856
Inorganics mg/L										
Nitrate	10 (NR)	<1.2	**23**	**28**	**29**	**37**	**26**	**31**	**30**	**19**
Sulfate	250 (NR)	**160**	**620**	**620**	**810**	**480**	**600**	**500**	**430**	**1900**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	**0.0001**	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	**0.00021**	<0.0001	**0.00026**	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.00012**	**0.00019**	**0.00020**	**0.00012**	**0.00011**	**0.000053**	**0.00011**	**0.00021**	**0.0021**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.014**	**0.00082**	**0.001**	**0.001**	**0.00066**	**0.00049**	**0.00051**	**0.00042**	**0.0015**
delta-BHC	0.00005(DL)	**0.00092**	**0.00024**	**0.00017**	**0.000063**	**0.000083**	<0.00005	<0.00005	**0.00026**	**0.00041**
Dieldrin	0.0001(DL)	**0.00021**	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.00013**	**0.00024**	**0.00027**	**0.00013**	**0.00011**	**0.00007**	**0.000098**	**0.00023**	**0.00091**
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.01545	0.00149	0.00137	0.00172	0.00096	0.00087	0.00072	0.00112	0.00492
pH (std units)		4.62	4.23	4.78	3.92	4.13	4.12	4.36	5.35	5.13
Specific Conductance (mS/cm)		0.45	1.43	1.2	1.61	1.36	1.51	1.54	1.31	1.89
Turbidity (NTUs)		1.73	7.9	9.7	10.3	17.5	43	10.1	7.76	0.2
DO (mg/L)			0.88	0.2	2.02	3.84	0.69	1.73		1.06
ORP (mV)			2.37	360	389	191	363	348		228

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	TW-6	TW-6	TW-6	TW-6	TW-6	TW-6	TW-7	TW-7	TW-7
Sample Date	*Concentrations*	**6/1/2015**	**11/14/2014**	**5/21/2014**	**11/18/2013**	**05/29/2013**	**05/30/2012**	**11/17/2015**	**6/5/2015**	**11/18/2014**
Metals mg/L										
Total Arsenic	0.01	**0.00731**	<0.005	<0.005	<0.005	**0.00821**	<0.005	**0.0317**	<0.005	**0.0152**
Total Copper	1.3	**1.08**	**0.0656**	**0.380**	**0.111**	**0.917**	**0.195**	**131**	**134**	**124**
Total Lead	0.015	<0.001	<0.001	<0.001	**0.00158**	**0.00115**	<0.001	**0.0212**	**0.0364**	**0.0286**
Total Zinc	2	**125.0**	**0.375**	**14.9**	**0.55**	**40.6**	**0.790**	**260**	**286**	**204**
Dissolved Arsenic	0.01	**0.00612**	<0.005	<0.005	<0.005	**0.00799**	<0.005	**0.0399**	<0.005	**0.0147**
Dissolved Copper	1.3	**0.941**	**0.079**	**0.401**	**0.0907**	**0.987**	**0.163**	**122**	**174**	**99.2**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0231**	**0.0342**	**0.0275**
Dissolved Zinc	2	**37.3**	**0.456**	**15.6**	**0.460**	**40.90**	**0.788**	**254**	**347**	**228**
Total of Total Metals Concentrations		126.08731	0.4406	15.28	0.66258	41.52636	0.9853	391.0529	420.0364	328.0438
Total of Dissolved Metals Concentrations		38.24712	0.535	16.001	0.5507	41.89499	0.9504	376.063	521.0342	327.2422
Inorganics mg/L										
Nitrate	10 (NR)	**28**	**8.5**	**27**	**17**	**25**	**74**	**110**	**2**	**77**
Sulfate	250 (NR)	**670**	**230**	**460**	**260**	**960**	**440**	**3600**	**270**	**5000**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.0018**	<0.00005	**0.00059**	<0.00005	**0.0029**	**0.00013**	**0.00054**	**0.00039**	**0.00045**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.0019**	**0.0013**	**0.00012**	**0.00098**	**0.0021**	**0.0011**	**0.0018**	**0.0015**	**0.0014**
delta-BHC	0.00005(DL)	**0.00057**	<0.00005	**0.00019**	<0.00005	**0.00054**	<0.00005	**0.00014**	**0.000086**	**0.00011**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.00087**	<0.00005	**0.00024**	<0.00005	**0.0012**	**0.000066**	**0.00035**	**0.00028**	**0.00032**
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.00514	0.00130	0.00114	0.00098	0.00674	0.00126	0.00283	0.00226	0.00228
pH (std units)		5.12	4.09	4.6	4.22	4.83	4.51	3.8	3.64	3.88
Specific Conductance (mS/cm)		1.68	0.986	1.32	1.08	2.27	2.04	5.41	5.3	5.73
Turbidity (NTUs)		0.3	10.7	8.3	9.56	0	3.58	2.9	15.7	8.38
DO (mg/L)		0.2	2.53	3.63	3.06	1.87		1.5	0	5.45
ORP (mV)		299	370	173	3.77	301		249	230	275

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	TW-7	TW-7	TW-7	TW-7	TW-8	TW-8	TW-8	TW-8	TW-8
Sample Date	*Concentrations*	**5/22/2014**	**11/19/2013**	**05/28/2013**	**06/01/2012**	**11/13/2015**	**6/2/2015**	**11/14/2014**	**5/19/2014**	**1/8/2014**
Metals mg/L										
Total Arsenic	0.01	**0.0126**	**0.0136**	**0.0139**	<0.05	**0.0878**	**0.0979**	**0.121**	**0.104**	**0.128**
Total Copper	1.3	**153**	**256**	**170**	**95.0**	**0.0135**	**0.0199**	**0.0106**	**0.00847**	**0.013**
Total Lead	0.015	<0.001	**0.0941**	**0.0117**	**0.0391**	**0.00127**	**0.00237**	<0.001	<0.001	**0.00134**
Total Zinc	2	**322**	**515**	**310**	**226**	**1.68**	**2.02**	**3.590**	**2.54**	**2.60**
Dissolved Arsenic	0.01	**0.011**	<0.005	**0.0127**	<0.100	**0.0541**	**0.0369**	**0.0146**	**0.0738**	**0.121**
Dissolved Copper	1.3	**125**	**191**	**175**	**88.4**	**0.00271**	**0.00244**	**0.0035**	<0.002	<0.002
Dissolved Lead	0.015	**0.0353**	**0.0750**	**0.00829**	**0.0404**	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	2	**258**	**370**	**323**	**237**	**1.31**	**1.37**	**2.980**	**2.07**	**1.47**
Total of Total Metals Concentrations		475.0126	771.1077	480.0256	320.68909	1.783	2.140	3.722	2.652	2.742
Total of Dissolved Metals Concentrations		383.0463	561.075	498.02099	325.7004	1.3668	1.4093	2.9981	2.1438	1.5910
Inorganics mg/L										
Nitrate	10 (NR)	**110**	**73**	**60**	**140**	<2.5	<2.5	<12	<0.25	<2.5
Sulfate	250 (NR)	**3900**	**5700**	**5000**	**2900**	**890**	**650**	**630**	**600**	**980**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.0046**	**0.0039**	**0.019**	<0.0001	**0.007**
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.01	<0.0001	**0.0013**
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.0036**	**0.015**	**0.350**	<0.0001	**0.15**
alpha-BHC	0.00005(DL)	**0.00031**	**0.00040**	**0.00021**	**0.00029**	**0.58**	**0.45**	**0.340**	**0.007**	**0.760**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	**0.00021**	<0.00005	<0.005	<0.00005	**0.00031**
beta-BHC	0.00005(DL)	**0.0013**	**0.00040**	**0.00039**	**0.0013**	**0.087**	**0.054**	**0.140**	**0.0022**	**0.22**
delta-BHC	0.00005(DL)	**0.000058**	<0.000050	**0.000074**	**0.00017**	**1.2**	**1.2**	**0.160**	**0.008**	**2.40**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	**0.0041**	**0.0036**	<0.01	<0.0001	**0.0074**
gamma-BHC	0.0002	**0.00025**	**0.00018**	**0.00015**	**0.00029**	**1.0**	**0.97**	**0.230**	**0.0034**	**2.0**
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	**0.00096**	**0.001**	<0.005	<0.00005	**0.0018**
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5	<0.005	<0.005
Total Pesticides		0.00192	0.00098	0.00082	0.00201	2.88047	2.69750	1.23900	0.02060	5.54781
pH (std units)		3.72	3.39	3.73	4.02	6.35	4.32	5.81	6.18	6.35
Specific Conductance (mS/cm)		5.2	8.14	5.62	6.15	2.76	1.97	1.97	1.76	2.503
Turbidity (NTUs)		0	9.80	16.8	3.48	0.7	0	67.0	0	4.05
DO (mg/L)		2.53	2.20	1.87		0.84	0.17	2.35	2.4	1.35
ORP (mV)		315	286	309		-65	66	-41	20	-109.6

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	TW-8	TW-8	TW-8	TW-8	TW-8	TW-9	TW-9	TW-9	TW-9
Sample Date	*Concentrations*	**10/9/2013**	**7/16/2013**	**4/15/2013**	**1/21/2013**	**05/31/2012**	**11/17/2015**	**6/8/2015**	**11/17/2014**	**5/22/2014**
Metals mg/L										
Total Arsenic	0.01	**0.101**	**0.135**	**0.164**	**0.155**	**0.101**	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**0.0110**	**0.0085**	**0.0903**	**0.0159**	**0.0668**	**0.0998**	**0.105**	**0.110**	**0.0599**
Total Lead	0.015	**0.00211**	<0.001	<0.001	**0.0088**	<0.001	<0.001	<0.001	<0.001	<0.001
Total Zinc	2	**1.52**	**1.72**	**4.05**	**3.27**	**4.43**	**3.6**	**7.89**	**4.51**	**3.09**
Dissolved Arsenic	0.01	**0.0831**	**0.0857**	**0.0457**	**0.156**	**0.0174**	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	<0.002	<0.002	**0.0234**	<0.002	**0.0278**	**0.0841**	**0.0964**	**0.0921**	**0.04850**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	2	**1.12**	**1.08**	**3.04**	**2.84**	**4.16**	**3.79**	**4.84**	**4.54**	**3.01**
Total of Total Metals Concentrations		1.634	1.863	4.3043	**3.450**	4.59973	3.700	7.995	4.620	3.150
Total of Dissolved Metals Concentrations		1.2031	1.1657	3.1091	**2.996**	4.20515	3.8741	4.9364	4.6321	3.0585
Inorganics mg/L										
Nitrate	10 (NR)	<12	<12	<2.5	<2.5	<2.5	**3.1**	<0.25	<0.25	<2.5
Sulfate	250 (NR)	**890**	**990**	**1100**	**390**	**750**	**450**	**610**	**340**	**250**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	**0.0057**	**0.0051**	**0.0019**	<1.0	<0.01	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	**0.00049**	<0.001	<0.0001	<0.1	<0.01	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	**0.0500**	**0.0085**	**0.0013**	**3.2**	<0.01	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.310**	**0.740**	**0.410**	**10.0**	**0.64**	**0.017**	**0.0085**	**0.0088**	**0.014**
alpha-Chlordane	0.002	**0.00015**	<0.0005	<0.0025	<0.050	<0.005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.092**	**0.11**	**0.05**	**1.50**	**0.11**	**0.012**	**0.0059**	**0.0044**	**0.0014**
delta-BHC	0.00005(DL)	**2.40**	**2.20**	**1.30**	**9.3**	**1.6**	**0.0088**	**0.0065**	**0.0077**	**0.0066**
Dieldrin	0.0001(DL)	**0.0074**	**0.0062**	**0.0027**	<0.1	<0.01	**0.00016**	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**1.2**	**1.8**	**1.2**	**6.2**	**1.3**	**0.0015**	**0.0017**	**0.0011**	**0.00035**
gamma-Chlordane	0.002	**0.0011**	**0.0011**	<0.0025	<0.05	<0.005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.0005	<0.0005	<0.0025	**0.260**	**0.041**	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.50	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<5.0	<0.5	<0.005	<0.005	<0.005	<0.005
Total Pesticides		4.06684	4.871	2.966	30.46	3.6385	0.039460	0.022600	0.022000	0.0224
pH (std units)		6.19	6.34	6.36	5.90	6.18	5.34	1.93	5.26	5.53
Specific Conductance (mS/cm)		2.893	2.689	2.749	1.117	1.91	0.91	0.835	0.918	0.637
Turbidity (NTUs)		14.5	1.2	4.8	328	2.01	1.7	0.5	2.21	1.66
DO (mg/L)		1.57	0.58	0.79	1.63		0.96	1.53	2.12	0.7
ORP (mV)		-87.5	-87.4	-41.2	-9.7		180	469	231	199

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	TW-9	TW-9	TW-9	TW-10	TW-10	TW-10	TW-10	TW-10	TW-10
Sample Date	*Concentrations*	**11/18/2013**	**05/28/2013**	**05/31/2012**	**11/17/2015**	**6/8/2015**	**11/17/2014**	**5/22/2014**	**11/18/2013**	**05/24/2013**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.005	<0.005	**0.00521**	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**0.0701**	**0.0407**	**0.0168**	**12.6**	**14.2**	**16.90**	**17.10**	**9.66**	**11.4**
Total Lead	0.015	**0.00161**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0143**	**0.00161**	**0.00182**
Total Zinc	2	**2.42**	**2.20**	**1.26**	**11.2**	**16.80**	**18.20**	**21.9**	**16.2**	**13.6**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	**0.00604**	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**0.00950**	**0.0343**	**0.0158**	**14.5**	**19.2**	**19.2**	**15.4**	**11.5**	**10.5**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00113**
Dissolved Zinc	2	**2.26**	**1.92**	**1.18**	**12.9**	**22.20**	**21.2**	**18.9**	**14.4**	**12.5**
Total of Total Metals Concentrations		2.492	2.2407	1.27475	23.80521	31	35.1	39.0143	25.86161	25.00182
Total of Dissolved Metals Concentrations		2.2695	1.9543	1.19178	27.4	41.4	40.40	34.30000	25.90000	23.00113
Inorganics mg/L										
Nitrate	10 (NR)	<1.2	<1.2	**0.49**	<5	**2.50**	**1.8**	<2.5	<2.5	**3.6**
Sulfate	250 (NR)	**170**	**170**	**170**	**770**	**730**	**600**	**900**	**530**	**620**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.0015**	**0.0009**	**0.0074**	**0.00056**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.00056**	**0.00091**	**0.0054**	**0.00042**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
delta-BHC	0.00005(DL)	**0.00073**	**0.00048**	**0.0043**	**0.00029**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Dieldrin	0.0001(DL)	**0.00041**	<0.00010	**0.00010**	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.000094**	**0.000069**	**0.0011**	**0.000058**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.0033	0.00236	0.01826	0.00133	BDL	BDL	BDL	BDL	BDL
pH (std units)		5.33	5.4	5.78	3.6	1.93	3.46	3.67	3.69	3.87
Specific Conductance (mS/cm)		0.565	0.878	0.61	1.154	0.835	1.27	1.12	1.06	1.28
Turbidity (NTUs)		0.0	7.83	0.47	3.78	0.5	9.89	3.42	0.00	9.57
DO (mg/L)		0.77	3.8		0.96	1.53	2.74	2.17	2.50	6.23
ORP (mV)		157	230		395.6	469	430	445	412	454

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	TW-10	TW-11	TW-11	TW-11	TW-11	TW-11	TW-11	TW-11	TW-12
Sample Date	*Concentrations*	**05/31/2012**	**11/11/2015**	**5/27/2015**	**11/11/2014**	**5/13/2014**	**11/13/2013**	**05/23/2013**	**05/31/2012**	**11/10/2015**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**6.98**	**0.11**	**0.142**	**0.130**	**0.147**	**0.146**	**0.145**	**0.132**	**0.00305**
Total Lead	0.015	**0.00271**	<0.001	**0.00147**	**0.00104**	**0.00148**	**0.00195**	**0.00233**	**0.00252**	<0.001
Total Zinc	2	**9.24**	**0.386**	**0.504**	**0.514**	**0.591**	**0.513**	**0.566**	**0.738**	**0.197**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**6.43**	**0.117**	**0.126**	**0.135**	**0.134**	**0.144**	**0.126**	**0.121**	<0.002
Dissolved Lead	0.015	**0.00228**	<0.001	<0.001	<0.001	**0.00144**	**0.00154**	**0.00209**	**0.00212**	<0.001
Dissolved Zinc	2	**8.66**	**0.396**	**0.461**	**0.501**	**0.514**	**0.47**	**0.495**	**0.688**	**0.197**
Total of Total Metals Concentrations		16.221709	0.496	0.64747	0.64504	0.73948	0.66095	0.71333	0.872222	0.20005
Total of Dissolved Metals Concentrations		15.09528	0.513	0.587	0.636	0.64944	0.61554	0.62309	0.811023	0.197
Inorganics mg/L										
Nitrate	10 (NR)	**2.9**	**5.7**	**5.1**	**2.8**	**4.4**	**3.7**	**3.5**	**3.7**	**2.6**
Sulfate	250 (NR)	**490**	**160**	**160**	**150**	**170**	**180**	**160**	**170**	**65**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.000091**	**0.004**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	<0.00005	**0.0049**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
delta-BHC	0.00005(DL)	**0.00023**	**0.0034**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Dieldrin	0.0001(DL)	<0.0001	**0.00012**	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.00012**	**0.0011**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.00045	0.01352	BDL	BDL	BDL	BDL	BDL	BDL	BDL
pH (std units)		4.1	4.36	4.4	4.10	4.24	4.27	4.37	4.78	5.18
Specific Conductance (mS/cm)		0.92	0.481	0.345	0.519	0.476	0.464	0.7	0.51	0.313
Turbidity (NTUs)		6.43	0.6	9.71	9.53	1.9	6.16	9.81	0.81	2.4
DO (mg/L)			2.67	1.57	3.83	3.35	3.6	3.48		3.61
ORP (mV)			250	404	-30	232	357	350		246

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	TW-12	TW-12	TW-12	TW-12	TW-12	TW-12	MW-1B	MW-1B	MW-1B
Sample Date	*Concentrations*	**5/27/2015**	**11/11/2014**	**5/13/2014**	**11/12/2013**	**05/23/2013**	**05/31/2012**	**11/10/2015**	**5/27/2015**	**11/11/2014**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**0.00831**	**0.0041**	**0.00258**	<0.002	<0.002	**0.00291**	**0.00226**	**0.00838**	**0.00585**
Total Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010
Total Zinc	2	**0.214**	**0.204**	**0.134**	**0.182**	**0.263**	**0.0715**	**0.01**	**0.0310**	**0.019**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**0.00927**	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	**0.00413**	**0.00305**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	2	**0.207**	**0.191**	**0.178**	**0.195**	**0.231**	**0.0529**	<0.01	**0.0238**	**0.0174**
Total of Total Metals Concentrations		0.22231	0.2081	0.13658	0.182	0.263	0.074373	0.01226	0.03938	0.02485
Total of Dissolved Metals Concentrations		0.21627	0.191	0.178	0.195	0.231	0.05291	BDL	0.02793	0.02045
Inorganics mg/L										
Nitrate	10 (NR)	**2.2**	<1.2	**1.7**	**3.0**	**3.2**	**2.7**	**5.4**	**4.9**	**6.2**
Sulfate	250 (NR)	**72**	**60**	**69**	**75**	**68**	**67**	**37**	**33**	**37**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
delta-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
pH (std units)		4.86	4.5	4.83	5.19	5.47	6.15	7.05	6.44	5.14
Specific Conductance (mS/cm)		0.203	0.292	0.215	0.238	0.493	0.36	0.403	0.338	0.474
Turbidity (NTUs)		2.7	4.1	3.6	9.89	8.7	15.2	1	0.5	0.0
DO (mg/L)		2.47	6.48	6.43	4.41	5.2		23.9	3.57	2.10
ORP (mV)		361	266	334	165	220		176	67	205

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	**MW-1B**	**MW-1B**	**MW-1B**	**MW-1B**	**MW-1B**	**MW-22**	**MW-22**	**MW-22**	**MW-22**
Sample Date	*Concentrations*	**5/13/2014**	**11/12/2013**	**05/21/2013**	**11/13/2012**	**7/29/2010 & 9/13/2010**	**11/12/2015**	**5/29/2015**	**11/12/2014**	**5/19/2014**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.0025	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**0.0209**	**0.0167**	**0.0124**	**0.0232**	<0.005	**1.58**	**1.56**	**2.30**	**2.23**
Total Lead	0.015	**0.00491**	**0.00408**	**0.00348**	**0.00113**	<0.0015	**0.0032**	**0.00235**	**0.00306**	**0.00518**
Total Zinc	2	**0.0876**	**0.0403**	**0.0547**	**0.0679**	<0.02	**2.81**	**4.15**	**4.290**	**3.73**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	<0.002	**0.00266**	<0.002	**0.0258**	na	**1.81**	**1.46**	**2.16**	**2.02**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	na	**0.00273**	**0.0019**	**0.00342**	**0.00294**
Dissolved Zinc	2	**0.0349**	<0.01	<0.01	**0.0767**	na	**2.96**	**3.92**	**3.74**	**4.33**
Total of Total Metals Concentrations		0.11341	0.06108	0.07058	0.09223	BDL	4.3932	5.71235	6.59306	5.96518
Total of Dissolved Metals Concentrations		0.0349	0.00266	BDL	0.1025		4.77273	5.3819	5.90342	6.35294
Inorganics mg/L										
Nitrate	10 (NR)	**3.5**	**7.0**	**3.0**	**3.6**	**4.5**	**2.8**	**2.1**	**1.7**	**1.6**
Sulfate	250 (NR)	**38**	**34**	**35**	**32**	**35**	**360**	**390**	**310**	**400**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.000048	**0.00017**	**0.00014**	**0.00019**	**0.00027**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00048	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.000048	**0.00041**	**0.00055**	**0.00054**	**0.00079**
delta-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.000048	**0.000052**	**0.000057**	**0.000091**	**0.00013**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	<0.00005	<0.00005	<0.00005	<0.00005	<0.000048	**0.00016**	**0.00013**	**0.00016**	**0.00023**
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	na	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.000048	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.000095	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.0048	<0.005	<0.005	<0.005	<0.005
Total Pesticides		BDL	BDL	BDL	BDL	BDL	0.00079	0.00088	0.00098	0.00142
pH (std units)		5.81	6.13	6.16	6.25	5.92/5.17	4.21	4.34	3.81	4.52
Specific Conductance (mS/cm)		0.401	0.418	0.57	0.983	0.36/0.35	0.603	0.606	0.760	0.806
Turbidity (NTUs)		2.3	0.99	8.03	6.35	6.4/2.76	2.2	0	2.2	10.7
DO (mg/L)		5.73	4.35	4.78	3.5		29.2	0	2.1	1.85
ORP (mV)		197	202	137	163		320	312	437	2.86

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	MW-22	MW-22	MW-22	MW-22	MW-25	MW-25	MW-25	MW-25	MW-25
Sample Date	*Concentrations*	**11/13/2013**	**5/22/2013**	**11/14/2012**	**7/28/2010 & 9/13/2010**	**11/13/2015**	**6/2/2015**	**11/18/2014**	**5/1/2014**	**11/18/2013**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.005	<0.005	**0.0038**	<0.005	<0.005	<0.005	Well could	Well was
Total Copper	1.3	**2.93**	**0.354**	**2.01**	**4.0**	**0.28**	**0.269**	**0.204**	not be located	dry and
Total Lead	0.015	**0.00446**	<0.001	**0.00553**	**0.004**	**0.0233**	**0.0153**	**0.025**	and was not	was not
Total Zinc	2	**4.90**	**1.48**	**4.23**	**8.3**	**2.83**	**3.31**	**2.88**	sampled	sampled
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005		
Dissolved Copper	1.3	**1.90**	**0.308**	**1.68**	na	**0.276**	**0.291**	**0.195**		
Dissolved Lead	0.015	**0.00446**	<0.001	**0.0049**	na	**0.0225**	**0.0138**	**0.0181**		
Dissolved Zinc	2	**3.05**	**1.44**	**2.97**	na	**2.67**	**3.5**	**2.86**		
Total of Total Metals Concentrations		7.83446	1.834	6.24553	12.3078	3.1333	3.5943	3.109		
Total of Dissolved Metals Concentrations		4.95446	1.748	4.6549		2.9685	3.8048	3.0731		
Inorganics mg/L										
Nitrate	10 (NR)	<2.5	**3.7**	<2.5	**1.5**	**2.1**	**1.2**	**0.33**		
Sulfate	250 (NR)	**380**	**470**	**380**	**750**	**270**	**260**	**190**		
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.000097	<0.0001	<0.0001	<0.0001		
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.000097	<0.0001	<0.0001	<0.0001		
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.000097	<0.0001	<0.0001	<0.0001		
alpha-BHC	0.00005(DL)	**0.00019**	**0.00018**	**0.00022**	**0.00079**	**0.00016**	**0.00014**	**0.00014**		
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00049	<0.00005	<0.00005	<0.00005		
beta-BHC	0.00005(DL)	**0.00043**	**0.001**	**0.00052**	**0.00096**	**0.0049**	**0.0035**	**0.0074**		
delta-BHC	0.00005(DL)	<0.00005	**0.00016**	**0.00013**	**0.00026**	**0.00019**	**0.00011**	**0.00010**		
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.000097	<0.0001	<0.0001	<0.0001		
gamma-BHC	0.0002	**0.00016**	**0.00015**	**0.00021**	**0.00047**	**0.000066**	<0.00005	<0.00005		
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	na	<0.00005	<0.00005	<0.00005		
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.000049	<0.00005	<0.00005	<0.00005		
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.000097	<0.0005	<0.0005	<0.0005		
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.0049	<0.005	<0.005	<0.005		
Total Pesticides		0.00078	0.00149	0.00108	0.00248	0.00532	0.00375	0.00764		
pH (std units)		4.12	5.77	3.98	3.97/4.01	4.42	4.18	4.49	DRY	DRY
Specific Conductance (mS/cm)		0.662	1.03	0.682	0.76/1.03	0.659	0.439	0.578		
Turbidity (NTUs)		1.23	0.27	0.9	6.8/1.98	1.5	8.7	0.0		
DO (mg/L)		0.71	1.25	1.09		2.12	0.98	4.51		
ORP (mV)		241	167	319		307	375	150		

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	MW-25	MW-25	MW-25	MW-26	MW-26	MW-26	MW-26	MW-26	MW-26
Sample Date	*Concentrations*	**5/24/2013**	**7/4/1905**	**9/14/2010**	**11/11/2015**	**5/28/2015**	**11/12/2014**	**5/14/2014**	**11/13/2013**	**5/22/2013**
Metals mg/L										
Total Arsenic	0.01	**0.0327**	Well was	**0.0027**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**0.363**	dry and	**0.32**	**0.011**	**0.0102**	**0.0126**	**0.0193**	**0.144**	**0.0146**
Total Lead	0.015	**0.314**	was not	**0.02**	**0.00109**	<0.001	**0.00139**	**0.00247**	**0.00122**	**0.00136**
Total Zinc	2	**3.26**	sampled	**2.9**	**0.14**	**0.142**	**0.168**	**0.166**	**0.164**	**0.209**
Dissolved Arsenic	0.01	<0.005		na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**0.317**		na	**0.00754**	**0.0097**	**0.0109**	**0.0137**	**0.00811**	**0.00873**
Dissolved Lead	0.015	**0.0283**		na	<0.001	<0.001	<0.001	<0.001	**0.00100**	<0.001
Dissolved Zinc	2	**3.43**		na	**0.126**	**0.136**	**0.179**	**0.149**	**0.16**	**0.175**
Total of Total Metals Concentrations		3.9697		3.2427	0.1521	0.1522	0.18199	0.18777	0.30922	0.22496
Total of Dissolved Metals Concentrations		3.7753			0.13354	0.1457	0.1899	0.1627	0.16911	0.18373
Inorganics mg/L										
Nitrate	10 (NR)	**1.9**		**4.7**	**1.4**	**1.3**	**1.0**	**0.73**	<1.2	**3.0**
Sulfate	250 (NR)	**240**		**200**	**270**	**230**	**190**	**230**	**190**	**170**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001		<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001		<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001		<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.00026**		**0.00019**	<0.00005	**0.000061**	**0.000071**	**0.00009**	**0.000056**	**0.000081**
alpha-Chlordane	0.002	<0.00005		<0.00048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.0021**		**0.00095**	**0.00036**	**0.00043**	**0.00051**	**0.00052**	**0.00039**	**0.00036**
delta-BHC	0.00005(DL)	**0.000075**		**0.00013**	**0.000064**	**0.000074**	<.000050	**0.00009**	**0.000074**	**0.000067**
Dieldrin	0.0001(DL)	<0.0001		<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.00008**		**0.00012**	0.021	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	<0.00005		na	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005		<0.000048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005		<0.000095	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005		<0.0048	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.002515		0.00139	0.021424	0.000565	0.0006	0.0007	0.000520	0.000508
pH (std units)		4.46	DRY	4.07	5.11	4.94	3.95	4.84	5.03	5.02
Specific Conductance (mS/cm)		0.776		0.49	0.583	0.499	0.573	0.517	0.460	0.657
Turbidity (NTUs)		354		9.7	6.3	0	3.9	9.51	2.46	60.3
DO (mg/L)		7.99			1.88	0	0.25	1.77	0.49	1.35
ORP (mV)		282			300	303	306	295	230	231

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	**MW-26**	**MW-26**	**MW-101**	**MW-101**	**MW-101**	**MW-101**	**MW-101**	**MW-101**	**MW-101**
Sample Date	*Concentrations*	**11/14/2012**	**7/28/2010 & 9/13/2010**	**11/10/2015**	**5/27/2015**	**11/11/2014**	**5/13/2014**	**11/12/2013**	**5/21/2013**	**11/12/2012**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.0025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**0.0204**	**0.01**	**0.00827**	**0.0175**	**0.00850**	**0.0156**	**0.0112**	**0.00866**	**0.0331**
Total Lead	0.015	**0.00799**	<0.0015	**0.00351**	**0.00292**	**0.00161**	**0.00679**	**0.00308**	**0.00251**	**0.00252**
Total Zinc	2	**0.228**	**0.16**	**1.1**	**0.925**	**0.263**	**0.977**	**0.909**	**0.937**	**0.158**
Dissolved Arsenic	0.01	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**0.00814**	na	<0.002	**0.00839**	**0.00791**	**0.00427**	**0.00404**	**0.00585**	**0.0328**
Dissolved Lead	0.015	<0.001	na	**0.00125**	**0.00139**	<0.001	<0.001	**0.00210**	<0.001	**0.00201**
Dissolved Zinc	2	**0.219**	na	**1.05**	**0.8**	**0.275**	**0.788**	**0.977**	**0.928**	**0.151**
Total of Total Metals Concentrations		0.25639	0.17	1.11178	0.94542	0.27311	0.99939	0.92328	0.94817	0.19362
Total of Dissolved Metals Concentrations		0.22714		1.05125	0.80978	0.28291	0.79227	0.98314	0.93385	0.18581
Inorganics mg/L										
Nitrate	10 (NR)	**6.4**	**4.8**	**11**	**6.5**	**5.5**	**9.7**	**10**	**9.9**	**1.5**
Sulfate	250 (NR)	**85**	**210**	**72**	**72**	**66**	**74**	**76**	**70**	**46**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	<0.00005	**0.00011**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
alpha-Chlordane	0.002	<0.00005	<0.00048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.000096**	**0.00054**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
delta-BHC	0.00005(DL)	<0.00005	**0.00014**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Dieldrin	0.0001(DL)	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	<0.00005	**0.00007**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	<0.00005	na	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.000048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.000095	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.0048	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.000096	0.00086	BDL	BDL	BDL	BDL	BDL	BDL	BDL
pH (std units)		5.54	4.47/4.99	4.86	4.65	3.84	4.43	4.65	4.71	4.62
Specific Conductance (mS/cm)		0.339	0.51/0.42	0.339	0.218	0.254	0.295	0.275	0.402	0.161
Turbidity (NTUs)		101	7.1/5.14	9.1	3.8	1.1	0.7	7.2	10.2	7.73
DO (mg/L)		1.02		0.01	0	0.96	2.39	0.97	2.08	0.49
ORP (mV)		205		76	311	330	223	3	272	289

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number / **Sample Date**	*HSRA Type 1 RRS Concentrations*	**MW-101 7/28/2010 & 9/13/2010**	**MW-102 11/10/2015**	**MW-102 5/27/2015**	**MW-102 11/11/2014**	**MW-102 5/13/2014**	**MW-102 11/12/2013**	**MW-102 5/21/2013**	**MW-102 11/13/2012**	**MW-102 7/29/2010 & 9/14/2010**
Metals mg/L										
Total Arsenic	0.01	<0.0025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0025
Total Copper	1.3	**0.022**	**0.00303**	**0.00977**	**0.00626**	**0.0152**	**0.0115**	**0.00836**	**0.00934**	<0.005
Total Lead	0.015	**0.0035**	<0.001	**0.00115**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0025**
Total Zinc	2	**0.66**	**0.0205**	**0.129**	**0.0276**	**0.377**	**0.0342**	**0.0407**	**0.0245**	<0.02
Dissolved Arsenic	0.01	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na
Dissolved Copper	1.3	na	<0.002	**0.00726**	**0.00433**	**0.00565**	<0.002	<0.002	**0.0089**	na
Dissolved Lead	0.015	na	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	na
Dissolved Zinc	2	na	<0.01	**0.107**	**0.0277**	**0.293**	**0.0257**	**0.0227**	**0.0247**	na
Total of Total Metals Concentrations		0.6855	0.02353	0.13992	0.03386	0.3922	0.0457	0.04906	0.03384	0.0025
Total of Dissolved Metals Concentrations			0	0.11426	0.03203	0.29865	0.0257	0.0227	0.0336	
Inorganics mg/L										
Nitrate	10 (NR)	**11**	**2.2**	**2.7**	<2.5	**2.5**	**3.0**	**4.0**	**2.3**	**5.1**
Sulfate	250 (NR)	**84**	**46**	**200**	**190**	**270**	**280**	**58**	**45**	**160**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.000097	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097
4,4´-DDE	0.0001	<0.000097	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097
4,4´-DDT	0.0001	<0.000097	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097
alpha-BHC	0.00005(DL)	<0.000049	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049
alpha-Chlordane	0.002	<0.00049	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00049
beta-BHC	0.00005(DL)	<0.000049	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049
delta-BHC	0.00005(DL)	<0.000049	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049
Dieldrin	0.0001(DL)	<0.000097	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097
gamma-BHC	0.0002	<0.000049	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049
gamma-Chlordane	0.002	na	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na
Heptachlor	0.0004	<0.000049	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049
Methoxychlor	0.04	<0.000097	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000097
Toxaphene	0.003	<0.0049	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0049
Total Pesticides		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
pH (std units)		4.32/4.5	5.88	5.5	5.01	4.82	4.38	5.37	5.62	4.84/5.54
Specific Conductance (mS/cm)		0.22/0.26	0.23	0.461	0.366	0.713	0.923	0.251	0.227	0.41/0.37
Turbidity (NTUs)		2.44/0.89	1.6	7.9	0.3	499	215	6.9	0	1.11/0.03
DO (mg/L)			4.58	1.58	0.0	3.46	3.43	4.39	3.07	
ORP (mV)			196	286	222	312	205	228	202	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	**MW-104A**	**MW-104A**	**MW-104A**	**MW-104A**	**MW-104A**	**MW-104A**	**MW-104A**	**MW-104A**	**MW-104D**
Sample Date	*Concentrations*	**11/11/2015**	**6/1/2015**	**11/12/2014**	**5/14/2014**	**11/14/2013**	**5/28/2013**	**11/14/2012**	**9/15/2010**	**11/12/2015**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0025	<0.005
Total Copper	1.3	<0.002	<0.002	<0.002	**0.0244**	**0.00411**	**0.00427**	<0.002	<0.005	**0.0035**
Total Lead	0.015	<0.001	<0.001	<0.001	**0.00548**	**0.00158**	<0.001	<0.001	<0.0015	<0.001
Total Zinc	2	<0.010	**0.0109**	<0.010	**0.0503**	**0.0126**	**0.0112**	<0.01	<0.02	**0.0103**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005
Dissolved Copper	1.3	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	na	<0.002
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	na	<0.001
Dissolved Zinc	2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	na	<0.01
Total of Total Metals Concentrations		BDL	BDL	BDL	0.08018	0.01829	0.01547	BDL	BDL	0.0138
Total of Dissolved Metals Concentrations		BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL
Inorganics mg/L										
Nitrate	10 (NR)	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<5
Sulfate	250 (NR)	**98**	**85**	**84**	**89**	**93**	**87**	**73**	**93**	<20
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001
alpha-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	<0.00005
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00047	<0.00005
beta-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	<0.00005
delta-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	<0.00005
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001
gamma-BHC	0.0002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	<0.00005
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000094	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0047	<0.005
Total Pesticides		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
pH (std units)		6.51	6.72	5.79	6.45	6.41	6.41	6.48	6.24	6.46
Specific Conductance (mS/cm)		0.911	0.766	0.870	0.874	0.797	0.859	0.876	0.74	3.18
Turbidity (NTUs)		9.8	0	3.6	15.7	9.13	0	0	1.49	52.6
DO (mg/L)		0	0	0.18	0.32	0.35	1.03	2		0
ORP (mV)		-60	-112	-95	-92	-128	-111	-98		-30

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	MW-104D	MW-104D	MW-104D	MW-104D	MW-104D	MW-104D	MW-104D	MW-105	MW-105
Sample Date	*Concentrations*	**6/3/2015**	**11/13/2014**	**5/15/2014**	**11/15/2013**	**5/28/2013**	**11/14/2012**	**9/15/2010**	**11/12/2015**	**6/1/2015**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0042**	<0.005	<0.005
Total Copper	1.3	**0.00553**	**0.00367**	**0.00560**	<0.002	**0.0107**	**0.00816**	<0.005	**0.00455**	**0.00906**
Total Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00114**	<0.0015	<0.001	**0.003**
Total Zinc	2	<0.010	<0.010	**0.0152**	**0.0327**	**0.0181**	**0.0164**	<0.02	**0.0132**	**0.0305**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005
Dissolved Copper	1.3	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	na	**0.00343**	**0.005**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	na	<0.001	<0.001
Dissolved Zinc	2	**0.025**	<0.01	<0.01	<0.01	<0.01	<0.01	na	**0.0107**	**0.0188**
Total of Total Metals Concentrations		0.00553	0.00367	0.0208	0.0327	0.0288	0.0257	BDL	0.01775	0.04256
Total of Dissolved Metals Concentrations		0.025	BDL	BDL	BDL	BDL	BDL		0.01413	0.0238
Inorganics mg/L										
Nitrate	10 (NR)	**0.34**	<2.5	<1.2	<0.25	<1.2	<2.5	<0.25	**0.37**	<0.25
Sulfate	250 (NR)	<1.0	<10	<5.0	<1	<5	<10	<5	**110**	**310**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	<0.00005	<0.00005
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00047	<0.00005	<0.00005
beta-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	<0.00005	<0.00005
delta-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	<0.00005	<0.00005
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001
gamma-BHC	0.0002	<0.00005	<0.00005	<0.00005	**0.000069**	<0.00005	<0.00005	<0.000047	<0.00005	<0.00005
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000094	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0047	<0.005	<0.005
Total Pesticides		BDL	BDL	BDL	0.000069	BDL	BDL	BDL	BDL	BDL
pH (std units)		6.58	6.06	6.41	6.25	6.38	6.44	6.51	5.98	5.76
Specific Conductance (mS/cm)		3.1	3.19	2.77	3.1	2.61	2.93	3.13	0.531	0.523
Turbidity (NTUs)		49.7	20.2	429	8.2	21.2	27.7	18	29.2	42.1
DO (mg/L)		0	0.0	0.24	0.41	1.59	2.27		0.01	0.17
ORP (mV)		-130	-67	-54	-69	-71	-67		174	195

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	MW-105	MW-105	MW-105	MW-105	MW-105	MW-105	MW-105	MW-106D	MW-106D
Sample Date	*Concentrations*	**11/14/2014**	**5/13/2014**	**11/14/2013**	**5/21/2013**	**12/5/2012**	**11/15/2012**	**9/15/2010**	**11/13/2015**	**6/2/2015**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.005	**0.00552**	<0.005	na	<0.005	<0.0025	<0.005	<0.005
Total Copper	1.3	**0.00404**	**0.0134**	**0.0112**	**0.00564**	na	**0.0114**	**0.0057**	**0.00382**	**0.00529**
Total Lead	0.015	**0.00154**	**0.00131**	**0.00487**	<0.001	na	<0.001	<0.0015	<0.001	<0.001
Total Zinc	2	**0.0109**	**0.0443**	**0.0217**	**0.0265**	na	**0.0475**	**0.024**	**0.277**	**0.273**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	na	<0.005	na	<0.005	<0.005
Dissolved Copper	1.3	<0.002	**0.00676**	<0.002	<0.002	na	**0.00851**	na	**0.00269**	**0.00357**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	na	<0.001	na	<0.001	<0.001
Dissolved Zinc	2	<0.01	**0.0381**	<0.01	**0.0216**	na	**0.0108**	na	**0.241**	**0.28**
Total of Total Metals Concentrations		0.01648	0.05901	0.04329	0.03214		0.0589	0.0297	0.28082	0.27829
Total of Dissolved Metals Concentrations		BDL	0.04486	BDL	0.0216		0.01931		0.24369	0.28357
Inorganics mg/L										
Nitrate	10 (NR)	<0.25	<0.25	<0.25	**0.28**	na	<0.25	<0.25	<2.5	**0.61**
Sulfate	250 (NR)	**97**	**220**	**160**	**230**	na	**71**	**97**	**380**	**380**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	**0.00014**	<0.000047	**0.0079**	**0.0066**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00047	<0.00005	<0.00005
beta-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	**0.0024**	**0.0022**
delta-BHC	0.00005(DL)	**0.000075**	<0.00005	<0.00005	<0.00005	<0.00005	**0.0002**	<0.000047	**0.01**	**0.0079**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001
gamma-BHC	0.0002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	**0.0041**	**0.0038**
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000094	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0047	<0.005	<0.005
Total Pesticides		0.000075	BDL	BDL	BDL	BDL	0.00034	BDL	0.0244	0.0205
pH (std units)		5.13	5.22	5.31	5.69	6	6.13	5.57	6.09	6.46
Specific Conductance (mS/cm)		0.514	0.570	0.442	0.619	0.514	0.477	0.36	1.02	0.963
Turbidity (NTUs)		188	23.6	13.2	9.61	15.1	9.91	9.7	0	0
DO (mg/L)		1.1	2.36	1.48	0.95	2.98	4.37		0.11	0
ORP (mV)		131	129	127	107	63.3	75		186	172

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	MW-106D	MW-106D	MW-106D	MW-106D	MW-106D	MW-106D	MW-107D	MW-107D	MW-107D
Sample Date	*Concentrations*	**11/13/2014**	**5/19/2014**	**11/15/2013**	**5/29/2013**	**11/15/2012**	**9/15/2010**	**11/12/2015**	**6/1/2015**	**11/13/2014**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0025	<0.005	<0.005	<0.005
Total Copper	1.3	**0.00298**	**0.00456**	**0.00897**	**0.00481**	**0.00471**	<0.005	**0.00359**	**0.00511**	**0.00407**
Total Lead	0.015	<0.001	<0.001	**0.00146**	**0.00124**	<0.001	<0.0015	<0.001	<0.001	<0.001
Total Zinc	2	**0.182**	**0.167**	**0.239**	**0.183**	**0.16**	**0.11**	**0.0117**	<0.01	**0.0235**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005
Dissolved Copper	1.3	<0.002	**0.00347**	**0.00492**	**0.00427**	**0.00233**	na	**0.00207**	**0.00328**	<0.002
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001
Dissolved Zinc	2	**0.172**	**0.178**	**0.168**	**0.162**	**0.149**	na	<0.01	<0.01	**0.0197**
Total of Total Metals Concentrations		0.18498	0.17156	0.24943	0.18905	0.16471	0.11	0.01529	0.00511	0.02757
Total of Dissolved Metals Concentrations		0.172	0.18147	0.17292	0.16627	0.15133		0.00207	0.00328	0.0197
Inorganics mg/L										
Nitrate	10 (NR)	**0.47**	**0.37**	<2.5	<1.2	**1.4**	**1.4**	**3.2**	**3.5**	**4.2**
Sulfate	250 (NR)	**440**	**340**	**390**	**400**	**380**	**430**	**160**	**170**	**200**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.0063**	**0.0066**	**0.0059**	**0.0076**	**0.0068**	**0.0082**	<0.00005	<0.00005	<0.00005
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00047	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.0024**	**0.0022**	**0.0022**	**0.0021**	**0.0019**	**0.0019**	<0.00005	<0.00005	<0.00005
delta-BHC	0.00005(DL)	<0.000050	**0.008**	**0.0079**	**0.0075**	**0.0082**	**0.01**	<0.00005	<0.00005	<0.00005
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.0035**	**0.0033**	**0.0031**	**0.0042**	**0.0043**	**0.0051**	<0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000094	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0047	<0.005	<0.005	<0.005
Total Pesticides		0.0122	0.0201	0.0191	0.0214	0.0212	0.0252	BDL	BDL	BDL
pH (std units)		5.84	6.1	6.05	6.09	6.2	6.28	6.46	6.41	5.21
Specific Conductance (mS/cm)		1.29	1.04	1.15	1.25	1.27	1.25	0.455	0.443	0.641
Turbidity (NTUs)		0.0	0	0	0	0.9	0	0	1.6	0.2
DO (mg/L)		7.88	1.43	3.54	2.25	0.49		27.7	6.92	2.28
ORP (mV)		-73	206	111	129	-53		190	235	216

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	MW-107D	MW-107D	MW-107D	MW-107D	MW-107D	MW-107D	MW-108	MW-108	MW-108
Sample Date	*Concentrations*	**5/21/2014**	**11/18/2013**	**5/22/2013**	**12/5/2012**	**11/19/2012**	**9/15/2010**	**11/11/2015**	**5/28/2015**	**11/12/2014**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.005	<0.005	na	<0.005	<0.0025	<0.005	<0.005	<0.005
Total Copper	1.3	**0.00754**	**0.0101**	**0.00257**	na	**0.00614**	<0.005	**0.17**	**0.151**	**0.174**
Total Lead	0.015	<0.001	**0.00203**	<0.001	na	<0.001	<0.0015	<0.001	<0.001	<0.001
Total Zinc	2	**0.0231**	**0.0176**	**0.0155**	na	**0.0151**	<0.02	**1.96**	**2.02**	**2.470**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	na	<0.005	na	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**0.00458**	**0.012**	**0.00295**	na	**0.00574**	na	**0.182**	**0.161**	**0.138**
Dissolved Lead	0.015	<0.001	**0.00213**	<0.001	na	<0.001	na	<0.001	<0.001	<0.001
Dissolved Zinc	2	**0.0141**	**0.0179**	<0.01	na	**0.0151**	na	**2.22**	**2.24**	**2.3**
Total of Total Metals Concentrations		0.03064	0.02973	0.01807		0.02124	BDL	2.13	2.171	2.644
Total of Dissolved Metals Concentrations		0.01868	0.03203	0.00295		0.02084		2.402	2.401	2.438
Inorganics mg/L										
Nitrate	10 (NR)	**5.2**	**4.5**	**6.0**	na	**5.0**	**4.7**	<0.25	<0.25	**<0.25**
Sulfate	250 (NR)	**180**	**210**	**230**	na	**200**	**190**	**300**	**260**	**200**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	**0.00011**	**0.0001**	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000048	**0.0055**	**0.0063**	**0.0029**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00048	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000048	**0.0012**	**0.0012**	**0.0011**
delta-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	**0.000056**	<0.000048	**0.0033**	**0.0037**	**0.0072**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000048	**0.00043**	**0.00046**	**0.00018**
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000048	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000095	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0048	<0.005	<0.005	<0.005
Total Pesticides		BDL	BDL	BDL	BDL	0.000056	BDL	0.01054	0.01176	0.01138
pH (std units)		5.6	5.60	5.68	5.53	5.76	5.52	5.81	5.63	5.15
Specific Conductance (mS/cm)		0.678	0.678	0.699	0.646	0.643	0.58	0.603	0.498	0.334
Turbidity (NTUs)		4	0	0	0	0.02	0	9.2	7.2	8.7
DO (mg/L)		2.35	1.67	1.65	0.95	0.06		0	0.01	0
ORP (mV)		208	223	200	213.8	202		245	296	333

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	MW-108	MW-108	MW-108	MW-108	MW-108	MW-109	MW-109	MW-109	MW-109
Sample Date	*Concentrations*	**5/15/2014**	**11/13/2013**	**5/23/2013**	**11/13/2012**	**7/29/2010 &9/14/2010**	**11/16/2015**	**6/3/2015**	**11/18/2014**	**5/15/2014**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.0025	**0.116**	**0.181**	**0.0342**	**0.292**
Total Copper	1.3	**0.155**	**0.241**	**0.225**	**0.242**	**0.3**	**0.0822**	**0.0782**	**0.178**	**0.0817**
Total Lead	0.015	<0.001	**0.00253**	<0.001	<0.001	<0.0015	**0.901**	**1.02**	**0.932**	**3.83**
Total Zinc	2	**2.24**	**2.86**	**2.75**	**2.81**	**3.6**	**23.4**	**25.7**	**25.3**	**21.2**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	na	**0.112**	**0.158**	**0.0258**	**0.208**
Dissolved Copper	1.3	**0.158**	**0.208**	**0.2**	**0.239**	na	**0.0656**	**0.0732**	**0.241**	**0.0103**
Dissolved Lead	0.015	<0.001	**0.00222**	<0.001	<0.001	na	**0.71**	**0.565**	**0.480**	**0.224**
Dissolved Zinc	2	**2.33**	**2.33**	**2.44**	**2.58**	na	**19**	**29.2**	**25.1**	**22.2**
Total of Total Metals Concentrations		2.395	3.10353	2.975	3.052	3.9	24.4992	26.9792	26.4442	25.4037
Total of Dissolved Metals Concentrations		2.488	2.54022	2.64	2.819		19.8876	29.9962	25.8468	22.6423
Inorganics mg/L										
Nitrate	10 (NR)	**0.35**	<1.2	<1.2	**0.66**	**0.42**	<25	<2.5	<12	<1.2
Sulfate	250 (NR)	**260**	**93**	**220**	**210**	**320**	**1400**	**1400**	**1200**	**1500**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.0048**	**0.0021**	**0.0028**	**0.0009**	**0.0058**	**0.034**	**0.029**	**0.033**	**0.033**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00048	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.0018**	**0.00081**	**0.00077**	**0.00051**	**0.0024**	**0.0035**	**0.0033**	**0.0046**	**0.0033**
delta-BHC	0.00005(DL)	**0.0059**	**0.0006**	**0.00044**	**0.00033**	**0.0018**	**0.0038**	**0.0032**	**0.0058**	**0.0039**
Dieldrin	0.0001(DL)	<0.0001	**0.00035**	<0.0001	<0.0001	**0.000098 P**	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.00025**	**0.00017**	**0.00022**	**0.000085**	**0.0002 P**	**0.02**	**0.018**	**0.022**	**0.019**
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	na	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.000048	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.000095	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.0048	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.01275	0.00403	0.00423	0.001825	0.0103	0.0613	0.0535	0.0654	0.0592
pH (std units)		5.27	4.55	4.71	4.74	4.3/5.14	4.56	4.5	4.31	4.19
Specific Conductance (mS/cm)		0.684	0.566	0.566	0.533	0.72/0.68	2.7	2.42	2.86	2.86
Turbidity (NTUs)		10.1	4.64	0	9	2.15/0.8	0	3.2	0	4.8
DO (mg/L)		1.92	0.46	0.84	0.98		0	0	2.08	0.88
ORP (mV)		257	238	299	251		160	206	229	179

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	MW-109	MW-109	MW-109	MW-109	MW-110	MW-110	MW-110	MW-110	MW-110
Sample Date	*Concentrations*	**11/15/2013**	**5/23/2013**	**11/16/2012**	**9/14/2010**	**11/11/2015**	**5/29/2015**	**11/12/2014**	**5/15/2014**	**1/8/2014**
Metals mg/L										
Total Arsenic	0.01	**0.0533**	**0.253**	**0.211**	**0.061**	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**0.0737**	**0.00569**	**0.0735**	**0.079**	**0.284**	**0.357**	**0.352**	**0.323**	**0.395**
Total Lead	0.015	**0.738**	**0.358**	**1.53**	**0.61**	<0.001	<0.001	<0.001	<0.001	<0.001
Total Zinc	2	**35.5**	**14.3**	**18.7**	**25**	**3.74**	**5.09**	**5.1**	**5.29**	**6.29**
Dissolved Arsenic	0.01	**0.0382**	**0.22**	**0.16**	na	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**0.0693**	**0.00505**	**0.0218**	na	**0.293**	**0.35**	**0.291**	**0.31**	**0.405**
Dissolved Lead	0.015	**0.285**	**0.0175**	**0.436**	na	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	2	**25.6**	**12.4**	**17.6**	na	**3.96**	**4.81**	**4.89**	**4.54**	**5.28**
Total of Total Metals Concentrations		36.365	14.91669	20.5145	25.75	4.024	5.447	5.452	5.613	6.685
Total of Dissolved Metals Concentrations		25.9925	12.64255	18.2178		4.253	5.16	5.181	4.85	5.685
Inorganics mg/L										
Nitrate	10 (NR)	**9.6**	<12	<0.25	**0.38**	**4.0**	**3.9**	**3.5**	**4**	**4.1**
Sulfate	250 (NR)	**1500**	**1300**	**1100**	**1300**	**310**	**320**	**250**	**300**	**330**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.024**	**0.03**	**0.03**	**0.0028**	**0.0009**	**0.00076**	**0.0005**	**0.00043**	**0.00088**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.0038**	**0.0035**	**0.0037**	<0.00048	**0.00032**	**0.00032**	**0.00033**	**0.00031**	**0.00035**
delta-BHC	0.00005(DL)	**0.004**	**0.0037**	**0.0049**	<0.00048	**0.0018**	**0.0015**	**0.0014**	**0.0011**	**0.0017**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.015**	**0.017**	**0.024**	**0.0019**	**0.001**	**0.00086**	**0.0006**	**0.00057**	**0.0012**
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	na	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.000048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.000095	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.0048	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.0468	0.0542	0.0626	0.0047	0.0040	0.0034	0.0028	0.0024	0.0041
pH (std units)		4.8	4.65	4.74	4.56	5.68	5.62	5.27	5.19	5.16
Specific Conductance (mS/cm)		2.94	2.72	2.81	2.71	0.703	0.631	0.498	0.844	0.697
Turbidity (NTUs)		0	3.95	0	0.1	0	2.7	4.1	0	0.92
DO (mg/L)		0.72	0.7	0.58		26.7	0	0	1.07	0.58
ORP (mV)		190	73	130		172	268	310	149	177.7

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	MW-110	MW-110	MW-110	MW-110	MW-110	MW-111	MW-111	MW-111	MW-111
Sample Date	*Concentrations*	**10/9/2013**	**7/16/2013**	**4/16/2013**	**11/14/2012**	**7/29/2010 & 9/14/2010**	**11/16/2015**	**6/3/2015**	**11/18/2014**	**5/19/2014**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.0025	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**0.376**	**0.396**	**0.4**	**0.372**	**0.39**	**0.0241**	**0.0283**	**0.0351**	**0.0357**
Total Lead	0.015	<0.001	<0.001	<0.001	<0.001	**0.0015**	<0.001	<0.001	<0.001	**0.0011**
Total Zinc	2	**5.05**	**5.69**	**6.92**	**5.9**	**5.7**	**5.45**	**5.4**	**4.96**	**7.17**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**0.323**	**0.381**	**0.38**	**0.375**	na	**0.032**	**0.0503**	**0.0336**	**0.0299**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	2	**4.47**	**5.19**	**6.25**	**4.81**	na	**4.36**	**5.65**	**4.55**	**5.47**
Total of Total Metals Concentrations		5.426	6.086	7.32	6.272	6.0915	5.4741	5.4283	4.9951	7.2068
Total of Dissolved Metals Concentrations		4.793	5.571	6.63	5.185		4.392	5.7003	4.5836	5.4999
Inorganics mg/L										
Nitrate	10 (NR)	**2.9**	**4.0**	**4.4**	**4.8**	**9.8**	<5.0	<0.25	<5.0	**0.3**
Sulfate	250 (NR)	**270**	**310**	**340**	**300**	**310**	**500**	**560**	**450**	**500**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.00045**	**0.0006**	**0.0012**	**0.00069**	**0.00047**	**0.019**	**0.01**	**0.030**	**0.039**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00048	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.00027**	**0.0004**	**0.00036**	**0.00044**	**0.00043**	**0.0066**	**0.0043**	**0.0069**	**0.0058**
delta-BHC	0.00005(DL)	**0.00089**	**0.0014**	**0.0022**	**0.0013**	**0.00088**	**0.059**	**0.034**	**0.11**	**0.1**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.00054**	**0.0008**	**0.0013**	**0.00067**	**0.00055**	**0.03**	**0.017**	**0.06**	**0.078**
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	na	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.000048	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.000095	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.0048	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.0022	0.0032	0.00506	0.0031	0.00233	0.1146	0.0653	0.2069	0.2228
pH (std units)		4.85	5.13	5.19	5.30	5.03/5.04	6.11	5.96	5.34	5.76
Specific Conductance (mS/cm)		0.731	0.765	0.84	1.02	0/0.94	1.27	1.18	1.43	1.39
Turbidity (NTUs)		0.22	10.7	1.2	0	0.22/0.6	0.7	0	0.7	0
DO (mg/L)		0.58	0.44	0.51	0.41		0.7	0	0.0	1.21
ORP (mV)		208	219.4	235.3	143		98	107	104	107

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	MW-111	MW-111	MW-111	MW-111	MW-111	MW-111	MW-112	MW-112	MW-112
Sample Date	*Concentrations*	**1/8/2014**	**10/9/2013**	**7/16/2013**	**4/17/2013**	**11/16/2012**	**7/29/2010 & 9/14/2010**	**11/10/2015**	**5/28/2015**	**11/11/2014**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0025	**0.00937**	**0.00783**	**0.0117**
Total Copper	1.3	**0.0242**	**0.0197**	**0.0231**	**0.0276**	**0.0255**	**0.039**	**0.0311**	**0.0504**	**0.0462**
Total Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0015	<0.001	<0.001	<0.001
Total Zinc	2	**7.3**	**4.75**	**5.42**	**6.44**	**5.1**	**4.4**	**1.12**	**2.13**	**1.10**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.01	na	**0.0101**	**0.00969**	**0.0121**
Dissolved Copper	1.3	**0.0237**	**0.0153**	**0.0218**	**0.0271**	**0.0206**	na	**0.0324**	**0.0455**	**0.0415**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.002	na	<0.001	<0.001	<0.001
Dissolved Zinc	2	**5.40**	**4.31**	**4.96**	**6.0**	**4.83**	na	**1.21**	**2.09**	**1.130**
Total of Total Metals Concentrations		7.3242	4.7697	5.4431	6.4676	5.1255	4.439	1.1605	2.1882	1.1579
Total of Dissolved Metals Concentrations		5.4237	4.3253	4.9818	6.0271	4.8506		1.2525	2.14519	1.1836
Inorganics mg/L										
Nitrate	10 (NR)	<1.2	<2.5	<1.2	<1.2	**0.4**	<0.25	<2.5	**1.5**	<2.5
Sulfate	250 (NR)	**510**	**440**	**440**	**480**	**440**	**240**	**250**	**370**	**170**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.014**	**0.015**	**0.02**	**0.012**	**0.012**	**0.014**	**0.0031**	**0.00078**	**0.00091**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.0005	<0.00005	<0.00005	<0.0005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.0069**	**0.0048**	**0.0051**	**0.0045**	**0.0051**	<0.01	**0.003**	**0.0068**	**0.0021**
delta-BHC	0.00005(DL)	**0.052**	**0.065**	**0.049**	**0.021**	**0.021**	**0.03**	**0.0026**	**0.00064**	**0.00021**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.001	<0.0001	<0.0001	**0.00014**	<0.0001	<0.0001	<0.00010
gamma-BHC	0.0002	**0.029**	**0.028**	**0.035**	**0.014**	**0.0082**	<0.01	**0.00095**	**0.00014**	**0.00013**
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.0005	<0.00005	<0.00005	na	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.0005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.005	<0.0005	<0.0005	<0.0001	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.100
Total Pesticides		0.10190	0.11280	0.10910	0.0515	0.0463	0.04414	0.00965	0.00836	0.00335
pH (std units)		5.74	5.55	5.74	5.81	5.88	5.79	6.52	6.08	5.87
Specific Conductance (mS/cm)		1.052	1.079	1.113	1.207	1.32	1.22	0.673	0.849	0.354
Turbidity (NTUs)		0.12	0.26	3.7	1.2	0	0.81	2.9	0	3.0
DO (mg/L)		0.73	0.94	0.65	0.6	0.46		0	0	0.0
ORP (mV)		129.1	167.9	180.1	151.6	69		167	174	189

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	**MW-112**	**MW-112**	**MW-112**	**MW-112**	**MW-112**	**MW-113**	**MW-113**	**MW-113**	**MW-113**
Sample Date	*Concentrations*	**5/14/2014**	**11/13/2013**	**5/22/2013**	**11/13/2012**	**7/28/2010 & 9/13/2010**	**11/16/2015**	**6/2/2015**	**11/17/2014**	**5/15/2014**
Metals mg/L										
Total Arsenic	0.01	**0.00684**	**0.013**	**0.0115**	**0.0144**	**0.015**	**0.0431**	**0.0177**	**0.039**	<0.005
Total Copper	1.3	**0.0536**	**0.0775**	**0.0794**	**0.0546**	**0.054**	**11.4**	**13.2**	**19.5**	**26.7**
Total Lead	0.015	**0.00109**	**0.00132**	**0.0026**	**0.0011**	<0.0015	<0.001	**0.0185**	**0.00931**	**0.0111**
Total Zinc	2	**1.62**	**1.61**	**2.45**	**0.563**	**1**	**65.6**	**4.1**	**124**	**134**
Dissolved Arsenic	0.01	**0.00651**	**0.0106**	**0.00747**	**0.0134**	na	<0.005	**0.0189**	**0.05**	<0.005
Dissolved Copper	1.3	**0.0521**	**0.0655**	**0.0499**	**0.0441**	na	**11.9**	**12.4**	**25.2**	**26.4**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	na	**0.00325**	**0.00545**	**0.0116**	**0.0104**
Dissolved Zinc	2	**1.65**	**1.26**	**2.35**	**0.559**	na	**70**	**72.2**	**146**	**132**
Total of Total Metals Concentrations		1.6815	1.7018	2.5435	0.6331	1.069	77.0431	17.3362	143.54831	160.7111
Total of Dissolved Metals Concentrations		1.70861	1.3361	2.40737	0.6165		81.90325	84.62435	171.2616	158.4104
Inorganics mg/L										
Nitrate	10 (NR)	**0.43**	<2.5	**1.8**	**1.5**	**0.89**	<25	<2.5	**1.2**	<1.2
Sulfate	250 (NR)	**620**	**480**	**580**	**100**	**220**	**1400**	**810**	**2000**	**2600**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.0021**	**0.00034**	**0.013**	**0.000076**	<0.0025	**0.0002**	**0.00025**	**0.00032**	**0.00048**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.0005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.022**	**0.0063**	**0.016**	**0.00039**	**0.031**	**0.00069**	**0.00076**	**0.00093**	**0.0010**
delta-BHC	0.00005(DL)	**0.0026**	**0.0002**	**0.015**	<0.00005	<0.0025	**0.00018**	**0.00017**	**0.00026**	**0.00029**
Dieldrin	0.0001(DL)	**0.00026**	<0.0001	**0.0005**	<0.0001	**0.00012**	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.0007**	**0.000093**	**0.0056**	<0.00005	**0.00059**	**0.00024**	**0.00026**	**0.00033**	**0.00045**
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	na	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.100	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.02766	0.006933	0.0501	0.000466	0.03171	0.00131	0.00144	0.00184	0.00222
pH (std units)		5.53	5.50	5.51	5.49	5.52/5.51	3.64	3.68	3.45	3.31
Specific Conductance (mS/cm)		1.23	1.18	1.6	0.731	0.55/0.57	2.156	1.89	3.37	3.47
Turbidity (NTUs)		3	5.81	9.9	9.89	5.1/4.04	0.8	9.2	3.3	16.1
DO (mg/L)		2.07	0.47	1.58	0.78		0.17	0.09	0.0	0.47
ORP (mV)		177	185	149	143		421.6	366	378	404

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	MW-113	MW-113	MW-113	MW-113	MW-114	MW-114	MW-114	MW-114	MW-114
Sample Date	*Concentrations*	**11/15/2013**	**5/24/2013**	**11/15/2012**	**9/15/2010**	**11/16/2015**	**6/2/2015**	**11/18/2014**	**5/15/2014**	**11/14/2013**
Metals mg/L										
Total Arsenic	0.01	**0.0135**	**0.0235**	<0.005	**0.023**	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**19.4**	**20.3**	**12.9**	**15**	**1.57**	**1.48**	**1.55**	**1.28**	**1.80**
Total Lead	0.015	**0.0166**	**0.0052**	**0.00812**	**0.0019**	**0.00295**	**0.00159**	**0.00200**	**0.00388**	**0.00325**
Total Zinc	2	**99.9**	**114**	**69.5**	**95**	**7.53**	**7.93**	**6.26**	**8.12**	**9.04**
Dissolved Arsenic	0.01	<0.005	**0.0234**	<0.025	na	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**12.9**	**21.8**	**11.9**	na	**1.32**	**1.51**	**1.53**	**1.15**	**1.51**
Dissolved Lead	0.015	**0.0104**	**0.00387**	**0.00785**	na	**0.00247**	<0.001	**0.00200**	**0.00252**	**0.00223**
Dissolved Zinc	2	**92.3**	**124**	**71.4**	na	**5.63**	**7.18**	**6.00**	**6.00**	**6.25**
Total of Total Metals Concentrations		119.3301	134.3287	82.40812	110.0249	9.10295	9.41159	7.812	9.40388	10.84325
Total of Dissolved Metals Concentrations		105.2104	145.82727	83.30785		6.95247	8.69	7.532	7.15252	7.76223
Inorganics mg/L										
Nitrate	10 (NR)	<2.5	<25	**1.8**	**1.6**	**27**	**29**	**16**	**29**	**69**
Sulfate	250 (NR)	**2500**	**2100**	**1700**	**2100**	**500**	**480**	**380**	**440**	**850**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.00029**	**0.00042**	**0.0004**	**0.0014**	**0.00018**	**0.00015**	**0.0001**	**0.00022**	**0.00023**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00047	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.00067**	**0.00087**	**0.00078**	**0.0018**	**0.0022**	**0.0018**	**0.0022**	**0.0022**	**0.0011**
delta-BHC	0.00005(DL)	**0.00018**	**0.00018**	**0.00027**	**0.0016**	**0.000082**	**0.000066**	**0.00013**	**0.00011**	**0.000095**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.00029**	**0.00041**	**0.00037**	**0.0012**	**0.00014**	**0.00012**	**0.000091**	**0.00011**	**0.00012**
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	na	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.000047	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.000094	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.0047	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.00143	0.00188	0.00182	0.006	0.003	0.002	0.003	0.003	0.002
pH (std units)		3.56	3.65	3.7	3.69	4.09	4.03	3.43	3.62	3.92
Specific Conductance (mS/cm)		3.36	3.0	2.69	2.58	1.09	0.944	1.23	1.28	1.31
Turbidity (NTUs)		15.1	110	26.5	5.21	0	7.4	4.2	5.6	3.72
DO (mg/L)		0.42	2.95	0.48		0	0	0.0	0.54	0.43
ORP (mV)		349	201	226		226	367	325	298	269

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	MW-114	MW-114	MW-114	MW-115	MW-115	MW-115	MW-115	MW-115	MW-115
Sample Date	*Concentrations*	**5/24/2013**	**11/15/2012**	**9/14/2010**	**11/16/2015**	**6/1/2015**	**11/14/2014**	**5/16/2014**	**11/13/2013**	**5/24/2013**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.005	<0.0025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**1.93**	**1.6**	**2.2**	**3.51**	**5.11**	**4.3**	**6.07**	**3.91**	**3.45**
Total Lead	0.015	<0.001	**0.00299**	**0.004**	**0.00168**	**0.00205**	**0.00632**	**0.00116**	**0.0132**	**0.00124**
Total Zinc	2	**9.74**	**8.66**	**8.7**	**8.47**	**11.4**	**18.6**	**15.1**	**12.3**	**9.56**
Dissolved Arsenic	0.01	<0.005	<0.01	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**1.82**	**1.55**	na	**3.48**	**4.16**	**4.210**	**4.22**	**2.78**	**3.37**
Dissolved Lead	0.015	<0.001	**0.00281**	na	**0.0013**	**0.00145**	**0.00862**	<0.001	**0.0126**	**0.0011**
Dissolved Zinc	2	**9.17**	**7.96**	na	**7.6**	**11.2**	**18.20**	**16.4**	**7.66**	**10.7**
Total of Total Metals Concentrations		11.67	10.26299	10.904	11.98168	16.51205	22.90632	21.17116	16.2232	13.01124
Total of Dissolved Metals Concentrations		10.99	9.51281		11.0813	15.36145	22.41862	20.62	10.4526	14.0711
Inorganics mg/L										
Nitrate	10 (NR)	**35**	**31**	**19**	<12	**1.3**	**1.7**	<5.0	<2.5	<2.5
Sulfate	250 (NR)	**450**	**460**	**290**	**690**	**780**	**650**	**880**	**720**	**580**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.00024**	**0.00018**	**0.00024**	**0.00033**	**0.00028**	**0.00026**	**0.00027**	**0.00016**	**0.00016**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.0005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.00064**	**0.00074**	**0.0046**	**0.00037**	**0.00033**	**0.00026**	**0.00019**	**0.00018**	**0.00026**
delta-BHC	0.00005(DL)	<0.00005	**0.000077**	**0.00011 P**	<0.00005	**0.000058**	**0.000073**	<0.00005	<0.00005	<0.00005
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.00012**	**0.00012**	**0.00027**	**0.000076**	**0.000079**	**0.000076**	**0.000078**	<0.00005	<0.00005
gamma-Chlordane	0.002	<0.00005	<0.00005	na	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.001	0.001117	0.00522	0.00078	0.00075	0.00067	0.00054	0.00034	0.00042
pH (std units)		4.04	4.08	4.05	3.68	3.69	3.30	3.7	3.63	3.75
Specific Conductance (mS/cm)		1.36	1.38	1.13	1.22	1.07	1.51	1.39	1.20	1.13
Turbidity (NTUs)		1.72	5.3	4.97	0.11	0	0.1	8.5	8.9	0
DO (mg/L)		0.87	0.65		3.59	0	0.0	1.72	0.58	1.06
ORP (mV)		352	244		4.5	412	422	236	290	409

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	MW-115	MW-115	MW-116	MW-116	MW-116	MW-116	MW-116	MW-116	MW-116
Sample Date	*Concentrations*	**11/15/2012**	**9/14/2010**	**11/12/2015**	**5/28/2015**	**11/12/2014**	**5/16/2014**	**11/13/2013**	**5/23/2013**	**2012**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.0025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	Well was
Total Copper	1.3	**4.04**	**6.7**	**1.65**	**1.85**	**2.54**	**2.45**	**3.25**	**1.91**	dry and
Total Lead	0.015	**0.00292**	<0.0015	**0.00273**	**0.00187**	**0.00112**	**0.00386**	**0.00533**	**0.00162**	was not
Total Zinc	2	**9.96**	**20**	**3.86**	**5.06**	**7.06**	**8.90**	**8.66**	**4.62**	sampled
Dissolved Arsenic	0.01	<0.01	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Dissolved Copper	1.3	**3.57**	na	**1.68**	**1.88**	**3.25**	**2.15**	**2.65**	**1.47**	
Dissolved Lead	0.015	**0.00601**	na	**0.00255**	**0.00109**	**0.00102**	**0.00359**	**0.00409**	<0.001	
Dissolved Zinc	2	**9.76**	na	**4.04**	**5.14**	**8.85**	**6.53**	**6.25**	**3.56**	
Total of Total Metals Concentrations		14.00292	26.7	5.51273	6.91187	9.60112	11.35386	11.91533	6.53162	
Total of Dissolved Metals Concentrations		13.33601		5.72255	7.02109	12.10102	8.68359	8.90409	5.03	
Inorganics mg/L										
Nitrate	10 (NR)	**2.2**	**3.2**	**37**	**14**	**28**	**18**	**72**	**16**	
Sulfate	250 (NR)	**730**	**430**	**430**	**500**	**430**	**660**	**570**	**400**	
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.000094	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
4,4´-DDE	0.0001	<0.0001	<0.000094	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
4,4´-DDT	0.0001	<0.0001	<0.000094	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
alpha-BHC	0.00005(DL)	**0.00028**	**0.00024**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
alpha-Chlordane	0.002	<0.00005	<0.00047	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
beta-BHC	0.00005(DL)	**0.00026**	**0.00013**	**0.00029**	**0.00031**	**0.00055**	**0.00019**	**0.00025**	**0.00026**	
delta-BHC	0.00005(DL)	**0.000074**	<0.000047	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Dieldrin	0.0001(DL)	<0.0001	<0.000094	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
gamma-BHC	0.0002	**0.000065**	**0.000073**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
gamma-Chlordane	0.002	<0.00005	na	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Heptachlor	0.0004	<0.00005	<0.000047	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Methoxychlor	0.04	<0.0005	<0.000094	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Toxaphene	0.003	<0.005	<0.0047	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Total Pesticides		0.00068	0.00044	0.00029	0.00031	0.00055	0.00019	0.00025	0.00026	
pH (std units)		3.71	3.76	4.43	4.25	4.05	4.06	3.55	4.24	
Specific Conductance (mS/cm)		1.32	1.18	1.27	0.836	0.999	1.48	0.652	1.17	
Turbidity (NTUs)		0	0.21	140	3.1	7.1	2.1	148	9.16	
DO (mg/L)		0.38		64.5	1.38	0	3.87	1.42	6.1	
ORP (mV)		389		220	347	393	300	332	249	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	MW-116	MW-117	MW-117	MW-117	MW-117	MW-117	MW-117	MW-117	MW-117
Sample Date	*Concentrations*	**7/28/2010 & 9/13/2010**	**11/16/2015**	**6/2/2015**	**11/17/2014**	**5/19/2014**	**11/15/2013**	**5/23/2013**	**11/15/2012**	**9/14/2010**
Metals mg/L										
Total Arsenic	0.01	<0.0025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0025
Total Copper	1.3	**4.1**	**0.0321**	**0.0295**	**0.0678**	**0.0362**	**0.0438**	**0.0318**	**0.0453**	**0.038**
Total Lead	0.015	**0.0073**	**0.00175**	**0.00117**	**0.00282**	**0.00109**	**0.00172**	**0.00107**	**0.00193**	<0.0015
Total Zinc	2	**12**	**0.867**	**0.802**	**1.01**	**0.809**	**1.01**	**1.05**	**0.794**	**1.6**
Dissolved Arsenic	0.01	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na
Dissolved Copper	1.3	na	**0.0272**	**0.0321**	**0.0761**	**0.0378**	**0.033**	**0.0272**	**0.0410**	na
Dissolved Lead	0.015	na	**0.00112**	<0.001	**0.00178**	<0.001	<0.001	<0.001	**0.00115**	na
Dissolved Zinc	2	na	**0.682**	**0.865**	**0.991**	**0.95**	**0.878**	**0.879**	**0.775**	na
Total of Total Metals Concentrations		16.1073	0.90085	0.83267	1.08062	0.84629	1.05552	1.08287	0.84123	1.638
Total of Dissolved Metals Concentrations			0.71032	0.8971	1.06888	0.9878	0.911	0.9062	0.81715	
Inorganics mg/L										
Nitrate	10 (NR)	**91**	**4.0**	**3.4**	**3.1**	**3.3**	**3.9**	**4.0**	**3.8**	**2.5**
Sulfate	250 (NR)	**710**	**140**	**150**	**130**	**140**	**140**	**140**	**130**	**260**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.00019**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
alpha-Chlordane	0.002	<0.00048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0005
beta-BHC	0.00005(DL)	**0.00063**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
delta-BHC	0.00005(DL)	<0.000048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	**0.000056**	<0.00005
Dieldrin	0.0001(DL)	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.00027**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	na	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na
Heptachlor	0.0004	<0.000048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.000095	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0001
Toxaphene	0.003	<0.0048	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.00109	BDL	BDL	BDL	BDL	BDL	BDL	0.000056	BDL
pH (std units)		3.92/3.94	4.27	4.41	3.52	4.21	4.17	4.23	4.18	4.24
Specific Conductance (mS/cm)		2.06/2.3	0.364	0.305	0.414	0.408	0.416	0.419	0.396	0.51
Turbidity (NTUs)		3.75/4.95	6.5	8.1	1.3	7.2	8.78	9.79	10.41	8.19
DO (mg/L)			3.39	1.2	1.40	2.95	1.43	1.42	6.8	
ORP (mV)			436	382	421	382	353	364	398	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	MW-119	MW-119	MW-119	MW-119	MW-119	MW-119	MW-119	MW-120	MW-120
Sample Date	*Concentrations*	**11/17/2015**	**6/5/2015**	**11/18/2014**	**5/21/2014**	**11/18/2013**	**5/28/2013**	**12/6/2012**	**11/17/2015**	**6/4/2015**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**0.00727**	**0.0106**	**0.00514**	**0.00386**	**0.00391**	**0.0158**	<0.005	**0.0422**	**0.0063**
Total Lead	0.015	<0.001	<0.001	<0.001	**0.00183**	**0.00276**	**0.0059**	**0.0012**	**0.00541**	<0.001
Total Zinc	2	**1.05**	**0.76**	**0.677**	**1.38**	**0.778**	**1.18**	**0.656**	**1.33**	**0.533**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**0.0225**	<0.002	**0.00369**	<0.002	**0.00530**	**0.00697**	<0.002	**0.101**	**0.00268**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	2	**1.09**	**0.69**	**0.689**	**1.36**	**0.677**	**0.877**	**0.532**	**1.31**	**0.458**
Total of Total Metals Concentrations		1.05727	0.7706	0.68214	1.38569	0.78467	1.2017	0.6572	1.37761	0.5393
Total of Dissolved Metals Concentrations		1.1125	0.69	0.69269	1.36	0.6823	0.88397	0.532	1.411	0.46068
Inorganics mg/L										
Nitrate	10 (NR)	<2.5	<0.25	<0.25	<0.25	<0.25	<1.2	<0.25	<2.5	<0.25
Sulfate	250 (NR)	**140**	**92**	**170**	**120**	**94**	**110**	**150**	**330**	**170**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.00018**	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.0012**	**0.00049**	**0.00064**	**0.00140**	**0.00050**	**0.00060**	**0.00087**	**0.0017**	**0.0012**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.0011**	**0.00052**	**0.00062**	**0.0011**	**0.00042**	**0.00051**	**0.00066**	**0.0019**	**0.0013**
delta-BHC	0.00005(DL)	**0.0011**	**0.00053**	**0.001**	**0.0016**	**0.00051**	**0.00053**	**0.00073**	**0.0015**	**0.0011**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.00023**	**0.000085**	**0.00013**	**0.00025**	**0.0001**	**0.00012**	**0.00013**	**0.00017**	<0.00005
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.00363	0.001625	0.002390	0.004350	0.001530	0.00176	0.00257	0.00527	0.00360
pH (std units)		6.92	7.01	5.64	5.44	6.25	5.75	5.99	5.92	6.57
Specific Conductance (mS/cm)		0.547	0.474	0.740	0.719	0.731	0.647	0.646	0.723	0.563
Turbidity (NTUs)		8.6	5.3	6.8	6.1	7.4	107	3.1	84.6	763
DO (mg/L)		0	0	7.45	0.52	0.43	4.78	0.6	0	0.31
ORP (mV)		14	3	-21	44	-59	49	40.4	97	146

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	MW-120	MW-120	MW-120	MW-120	MW-120	MW-121	MW-121	MW-121	MW-121
Sample Date	*Concentrations*	**11/19/2014**	**5/21/2014**	**11/18/2013**	**5/28/2013**	**12/7/2012**	**11/13/2015**	**6/5/2015**	**11/13/2014**	**5/19/2014**
Metals mg/L										
Total Arsenic	0.01	**0.00117 J**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**0.0108**	**0.0584**	**0.0124**	**0.0129**	**0.0289**	**0.0052**	**0.0309**	**0.0113**	**0.00695**
Total Lead	0.015	**0.00197**	**0.04600**	**0.0018**	**0.00418**	**0.0295**	<0.001	<0.001	<0.001	**0.00136**
Total Zinc	2	**0.690**	**1.41**	**1.23**	**0.894**	**1.88**	**0.0187**	**0.0204**	**0.0434**	**0.0194**
Dissolved Arsenic	0.01	<0.000536	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**0.0042**	**0.0029**	**0.00554**	**0.0067**	**0.00223**	**0.00345**	**0.0066**	**0.00286**	**0.00223**
Dissolved Lead	0.015	<0.0000990	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	2	**0.667**	**1.18**	**1.07**	**0.737**	**1.74**	<0.01	**0.0163**	**0.0196**	**0.0125**
Total of Total Metals Concentrations		0.70277	1.5144	1.2442	0.91108	1.9384	0.0239	0.0513	0.0547	0.02771
Total of Dissolved Metals Concentrations		0.6712	1.1829	1.07554	0.7437	1.74223	0.00345	0.0229	0.02246	0.01473
Inorganics mg/L										
Nitrate	10 (NR)	<0.14	<0.25	<1.2	<1.2	<0.25	**5.0**	<0.25	**0.43**	**0.4**
Sulfate	250 (NR)	**170**	**150**	**150**	**160**	**410**	**21**	**12**	**50**	**42**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.00096**	**0.00095**	**0.00090**	**0.00063**	**0.0035**	<0.00005	<0.00005	**0.000054**	**0.00012**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.0011**	**0.00099**	**0.00089**	**0.00075**	**0.0042**	<0.00005	**0.000054**	**0.0001**	**0.00012**
delta-BHC	0.00005(DL)	**0.001**	**0.0014**	**0.00071**	**0.00046**	**0.0031**	<0.00005	**0.000071**	<0.000050	**0.00011**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	<0.00005	**0.000084**	<0.00005	<0.00005	**0.0011**	<0.00005	<0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.00306	0.00342	0.00250	0.0018	0.0119	BDL	0.0001	0.0002	0.0004
pH (std units)		5.59	5.61	5.57	5.38	6.3	6.24	6.35	6.36	6.03
Specific Conductance (mS/cm)		0.85	0.693	0.640	0.645	0.95	0.286	0.292	0.251	0.369
Turbidity (NTUs)		82	279	8.3	78.9	76.1	0.1	0	1.8	0
DO (mg/L)		6.05	0.53	8.93	3.06	6.42	2.95	0	0	0.71
ORP (mV)		82	93	85	175	58.6	157	149	43	167

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	MW-121	MW-121	MW-121	OW-1	OW-1	OW-1	OW-1	OW-1	OW-1
Sample Date	*Concentrations*	**11/18/2013**	**5/29/2013**	**12/6/2012**	**11/16/2015**	**6/3/2015**	**5/19/2014**	**1/8/2014**	**10/9/2013**	**7/16/2013**
Metals mg/L										
Total Arsenic	0.01	<0.005	<0.005	<0.005	**0.0644**	**0.0801**	**0.102**	**0.0493**	**0.0375**	**0.0636**
Total Copper	1.3	**0.00330**	**0.00429**	**0.0295**	**0.483**	**0.25**	**0.181**	**0.471**	**0.417**	**0.33**
Total Lead	0.015	<0.001	<0.001	**0.0012**	**0.00101**	<0.001	<0.001	<0.001	<0.001	<0.001
Total Zinc	2	**0.0112**	**0.0313**	**1.59**	**9.54**	**5.75**	**7.71**	**17.2**	**14.6**	**11.2**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	**0.0214**	**0.0226**	**0.0228**	**0.0281**	**0.0121**	**0.0188**
Dissolved Copper	1.3	**0.00469**	**0.0106**	**0.0112**	**0.22**	**0.0869**	**0.0724**	**0.345**	**0.23**	**0.129**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	**0.00106**	**0.00135**	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	2	**0.0692**	**0.0153**	**1.25**	**7.49**	**5.9**	**5.62**	**14.9**	**16.7**	**10.7**
Total of Total Metals Concentrations		0.0145	0.03559	1.6207	**10.088**	**6.080**	**7.993**	**17.720**	**15.055**	**11.594**
Total of Dissolved Metals Concentrations		0.07389	0.0259	1.2612	**7.732**	**6.011**	**5.715**	**15.273**	**16.942**	**10.848**
Inorganics mg/L										
Nitrate	10 (NR)	**0.45**	**0.32**	**0.59**	<5	<0.25	<0.25	<2.5	<5.0	<2.5
Sulfate	250 (NR)	**64**	**56**	**220**	**530**	**350**	**450**	**600**	**580**	**590**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	**0.00019**	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.0001**	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.00030**	**0.00018**	**0.0027**	**0.0067**	**0.0066**	**0.0086**	**0.0077**	**0.0097**	**0.0088**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.000050	<0.000050	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.00023**	**0.00015**	**0.0011**	**0.0034**	**0.0033**	**0.0034**	**0.0039**	**0.0037**	**0.004**
delta-BHC	0.00005(DL)	**0.00023**	**0.000078**	**0.0023**	**0.013**	**0.013**	**0.017**	**0.013**	**0.017**	**0.016**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.00009**	<0.00005	**0.0014**	**0.0059**	**0.0058**	**0.0067**	**0.0075**	**0.013**	**0.0086**
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.0009	0.000408	0.0075	0.0292	0.0287	0.0357	0.0322	0.0434	0.0374
pH (std units)		6.10	5.85	5.97	6.64	5.27	5.92	5.92	5.71	5.95
Specific Conductance (mS/cm)		0.425	0.395	0.633	1.19	0.743	1.23	1.233	1.404	1.323
Turbidity (NTUs)		1.45	0.47	3.6	1.2	0	0	2.57	6.35	75.6
DO (mg/L)		0.74	2.18	3.9	0	0.67	1.75	0.76	0.92	0.43
ORP (mV)		82	154	79.6	54	108	71.0	55.0	155.3	45.5

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	OW-1	OW-1	OW-2	OW-2	OW-2	OW-2	OW-2	OW-2	OW-2
Sample Date	*Concentrations*	**4/15/2013**	**1/20/2013**	**11/13/2015**	**6/3/2015**	**5/20/2014**	**1/8/2014**	**10/9/2013**	**7/16/2013**	**4/16/2013**
Metals mg/L										
Total Arsenic	0.01	**0.0671**	**0.0918**	**0.0532**	**0.0321**	**0.057**	**0.0392**	**0.029**	**0.031**	**0.0314**
Total Copper	1.3	**0.293**	**0.0929**	**0.0476**	**0.0645**	**0.0512**	**0.0439**	**0.0338**	**0.0252**	**0.0159**
Total Lead	0.015	<0.001	**0.00106**	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.001
Total Zinc	2	**15.8**	**5.55**	**2.89**	**5.09**	**5.4**	**8.35**	**6.13**	**6.33**	**4.89**
Dissolved Arsenic	0.01	**0.0131**	**0.0709**	**0.0272**	**0.00919**	**0.0163**	**0.0252**	**0.015**	**0.0168**	**0.0278**
Dissolved Copper	1.3	**0.0855**	**0.0716**	**0.0215**	**0.0291**	**0.0314**	**0.0263**	**0.0222**	**0.018**	**0.00567**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	2	**14.3**	**5.75**	**2.66**	**4.52**	**5.32**	**6.31**	**5.80**	**5.95**	**4.83**
Total of Total Metals Concentrations		**16.160**	**5.736**	**2.991**	**5.187**	**5.508**	**8.433**	**6.193**	**6.386**	**4.937**
Total of Dissolved Metals Concentrations		**14.399**	**5.893**	**2.709**	**4.558**	**5.368**	**6.362**	**5.837**	**5.985**	**4.863**
Inorganics mg/L										
Nitrate	10 (NR)	<2.5	<2.5	<2.5	<0.25	<0.14	<2.5	<5.0	<2.5	<2.5
Sulfate	250 (NR)	**800**	**600**	**480**	**620**	**710**	**640**	**520**	**530**	**480**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	**0.00023**	<0.001	**0.00015**	**0.00018**	**0.00012**	**0.00019**	**0.00019**	<0.0001	**0.00039**
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.001	**0.00019**	**0.00021**	**0.000088**	**0.00027**	**0.00015**	<0.0001	**0.00035**
alpha-BHC	0.00005(DL)	**0.0098**	**0.012**	**0.042**	**0.022**	**0.062**	**0.024**	**0.031**	**0.015**	**0.0096**
alpha-Chlordane	0.002	<0.00005	<0.000050	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.0036**	**0.004**	**0.0083**	**0.0052**	**0.011**	**0.011**	**0.007**	**0.0046**	**0.0041**
delta-BHC	0.00005(DL)	**0.016**	**0.017**	**0.15**	**0.063**	**0.16**	**0.084**	**0.08**	**0.028**	**0.019**
Dieldrin	0.0001(DL)	<0.0001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.0077**	**0.0083**	**0.045**	**0.016**	**0.066**	**0.031**	**0.033**	**0.01**	**0.0063**
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.0373	0.0413	0.2456	0.1066	0.29921	0.15046	0.15134	0.05760	0.03974
pH (std units)		6.08	5.77	6.76	5.97	5.86	5.75	5.49	5.67	5.78
Specific Conductance (mS/cm)		1.753	1.40	1.14	1.2	1.66	1.251	1.337	1.251	1.08
Turbidity (NTUs)		6.9	4.3	82.1	10.2	6.8	1.16	3.12	14.1	7.1
DO (mg/L)		5.05	1.1	0	0.63	2.01	0.64	0.76	0.37	0.61
ORP (mV)		55.9	100.2	46	43	60.0	42.8	81.5	98.9	58.1

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	HSRA Type 1 RRS	OW-2	OW-3	OW-3	OW-3	OW-3	OW-3	OW-3	OW-3	OW-3
Sample Date	*Concentrations*	**1/20/2013**	**11/13/2015**	**6/8/2015**	**5/21/2014**	**1/8/2014**	**10/9/2013**	**7/16/2013**	**4/16/2013**	**1/20/2013**
Metals mg/L										
Total Arsenic	0.01	**0.0258**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**0.0281**	**0.726**	**0.984**	**1.32**	**1.09**	**0.918**	**0.954**	**1.08**	**0.126**
Total Lead	0.015	<0.001	**0.00219**	**0.00179**	**0.00157**	<0.001	<0.001	<0.001	<0.001	<0.001
Total Zinc	2	**2.33**	**4.81**	**9.05**	**15.7**	**12**	**7.81**	**7.42**	**9.3**	**5.44**
Dissolved Arsenic	0.01	**0.0243**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**0.0236**	**0.692**	**0.807**	**1.71**	**1.09**	**0.906**	**0.962**	**1.04**	**0.115**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	2	**2.24**	**4.92**	**7.22**	**19.1**	**8.9**	**7.83**	**7.13**	**9.26**	**5.22**
Total of Total Metals Concentrations		**2.384**	**5.538**	**10.036**	**17.022**	**13.090**	**8.728**	**8.374**	**10.380**	**5.566**
Total of Dissolved Metals Concentrations		**2.288**	**5.612**	**8.027**	**20.810**	**9.990**	**8.736**	**8.092**	**10.300**	**5.335**
Inorganics mg/L										
Nitrate	10 (NR)	<0.25	<2.5	**0.52**	**8.1**	**1.8**	<2.5	<1.2	<2.5	**0.98**
Sulfate	250 (NR)	**350**	**560**	**420**	**700**	**460**	**500**	**450**	**540**	**390**
Organochlorine Pesticides mg/L										
4,4´-DDD	0.0001	<0.002	<0.0001	<0.0001	<0.001	<0.0001	<0.001	<0.001	<0.0001	<0.001
4,4´-DDE	0.0001	<0.001	<0.0001	<0.0001	<0.001	<0.0001	<0.001	<0.001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.001	<0.0001	<0.0001	<0.001	<0.0001	<0.001	<0.001	**0.0001**	<0.001
alpha-BHC	0.00005(DL)	**0.011**	**0.0036**	**0.0032**	**0.0026**	**0.0027**	**0.0028**	**0.0035**	**0.0023**	**0.0047**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0005	<0.0005	<0.0005
beta-BHC	0.00005(DL)	**0.0043**	**0.0021**	**0.0018**	**0.0013**	**0.0016**	**0.0013**	**0.0019**	**0.0012**	**0.0024**
delta-BHC	0.00005(DL)	**0.022**	**0.01**	**0.0083**	**0.0064**	<0.00005	**0.0089**	**0.0079**	**0.0057**	**0.0067**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.001	<0.0001	<0.001
gamma-BHC	0.0002	**0.0038**	**0.002**	**0.0021**	**0.0018**	**0.002**	**0.0038**	**0.0025**	**0.0021**	**0.0021**
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005
Total Pesticides		0.0411	0.0177	0.0154	0.0121	0.0063	0.0168	0.0158	0.0114	0.0159
pH (std units)		5.6	5.17	4.95	4.53	4.51	4.32	4.65	4.82	5.06
Specific Conductance (mS/cm)		0.908	0.985	0.788	1.58	0.855	0.992	0.922	1.076	0.93
Turbidity (NTUs)		34	102	4.6	0	0.47	0.58	2.8	8.1	48
DO (mg/L)		1.02	0	0	1.2	0.47	0.76	0.39	0.58	0.66
ORP (mV)		37.2	274	297	260	168.3	208.7	202.6	204.2	128.5

Notes:
<0.00005 = constituent not detected above laboratory quantitation limit
Bolded concentrations indicate detection above laboratory quantitation limit
Concentration above the Type 1 RRS
NR = not regulated under HSRA or VRP
DL = Detection limit
mg/L = milligrams per liter
P = Identification of target analytes using gas chromatography (GC) is based on retention time. Although 2 dissimilar GC columns confirmed the presence of the target analyte in the sample, relative percent difference is >40%.

Prepared by: NJM 12/21/2015
Checked by: RNQ 1/12/2016

TABLE 4: SUMMARY OF SURFACE WATER ANALYTICAL RESULTS

Sample Location	GA Instream	National AWQC	National AWQC Human Consumption of Water + Organism	National AWQC Human Consumption of Water	GA Instream Human Health	SW-2010-5	SW-2010-5	SW2010-5	SW2010-5	SW2010-5	SW2010-5	SW2010-5	SW2010-5	SW2010-10	SW2010-10	SW2010-10	SW2010-10	SW2010-10	SW2010-10	SW2010-10	SW2010-10	SW2010-11	SW2010-11	SW2010-11	SW2010-11	SW2010-11
Sample Date						11/18/2015	6/4/2015	11/19/2014	5/20/2014	11/19/2013	5/30/2013	11/16/2012	9/23/2010	11/18/2015	6/4/2015	11/19/2014	5/20/2014	11/19/2013	5/30/2013	11/16/2012	9/23/2010	11/18/2015	6/4/2015	11/19/2014	5/20/2014	11/19/2013
Distance Along Stream (ft)						735	735	735	735	735	735	735	735	1152	1152	1152	1152	1152	1152	1152	1152	1222	1222	1222	1222	1222
PARAMETER, UNITS																										
Total Organochlorine Pesticides (ug/L)						surface water sample from main channel upstream of culvert								surface water sample from main channel upstream of culvert								surface water sample from main channel downstream of culvert				
	Ecological Exposure		Human Health Exposure																							
alpha-BHC	not established		0.0026	0.0049	0.0049	**0.059**	**0.062**	**0.083**	**0.075**	**0.085**	**0.092**	**0.11**	0.13	**0.15**	**0.11**	**0.097**	**0.12**	**0.17**	**0.18**	**0.15**	0.13	**0.18**	**0.15**	**0.13**	**0.17**	**0.24**
beta-BHC	not established		0.0091	0.017	0.017	**0.064**	**0.21**	**0.074**	**0.12**	**0.073**	**0.089**	**0.071**	0.23	**0.082**	**0.24**	**0.081**	**0.12**	**0.092**	**0.13**	**0.092**	0.18	**0.092**	**0.24**	**0.091**	**0.3**	**0.29**
gamma-BHC (lindane)	0.95 (acute)	0.95 (acute)	0.98	1.8	1.8	**0.013 J**	**0.013 J**	**0.0092 J**	**0.014 J**	<0.050	**0.0087 J**	<0.05	0.037 P	**0.063**	**0.054**	**0.028 J**	**0.046 J**	**0.060**	**0.066**	<0.05	0.084	**0.073**	**0.069**	**0.044 J**	**0.074**	**0.091**
delta-BHC	not established		not established			**0.024 J**	**0.091**	<0.0031	**0.014**	**0.051**	**0.078**	**0.12**	0.2	**0.066**	**0.14**	**0.059**	**0.16**	**0.077**	**0.16**	**0.14**	0.11 P	**0.074**	**0.15**	**0.077**	**0.27**	**0.11**
Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.014	<0.00005	<0.0022	<0.0022	<0.050	<0.0066	<0.05	<0.1	<0.014	<0.00005	<0.0022	<0.0022	<0.050	<0.0066	<0.05	<0.094	<0.014	<0.00005	<0.0022	<0.0022	<0.050
gamma-Chlordane			0.0008	0.00081	0.00081	<0.0047	<0.00005	<0.005	<0.005	<0.050	<0.0047	<0.05	NA	<0.0047	<0.00005	<0.005	<0.005	<0.050	<0.0047	<0.05	NA	<0.0047	<0.00005	<0.005	<0.005	<0.050
4,4'-DDD	not established		0.00031	0.00031	0.00031	<0.0082	<0.0001	<0.0091	<0.0091	<0.10	<0.014	<0.1	<0.0065	<0.0082	<0.0001	<0.0091	<0.0091	<0.10	<0.014	<0.1	<0.0061	<0.0082	<0.0001	<0.0091	<0.0091	<0.10
4,4'-DDE	not established		0.00022	0.00022	0.00022	<0.0069	<0.0001	<0.006	<0.006	<0.10	<0.0075	<0.1	<0.0077	<0.0069	<0.0001	<0.006	<0.006	<0.10	<0.0075	<0.1	<0.0073	<0.0069	<0.0001	<0.006	<0.006	<0.10
4,4'-DDT	0.001	0.001	0.00022	0.00022	0.00022	<0.0063	<0.0001	<0.0069	<0.0069	<0.10	<0.014	<0.1	<0.0097	<0.0063	<0.0001	<0.0069	<0.0069	<0.10	<0.014	<0.1	<0.0092	<0.0063	<0.0001	<0.0069	<0.0069	<0.10
Dieldrin	0.056	0.056	0.000052	0.000054	0.000054	<0.0072	<0.0001	<0.0091	<0.0091	<0.10	<0.013	<0.1	<0.0091	<0.0072	<0.0001	<0.0091	<0.0091	<0.10	<0.013	<0.1	0.011 J	**0.016 J**	<0.0001	<0.0091	<0.0091	<0.10
Heptachlor	0.0038	0.0038	0.000079	0.000079	0.000079	<0.0079	<0.00005	<0.0072	<0.0072	<0.050	<0.0038	<0.05	<0.007	<0.0079	<0.00005	<0.0072	<0.0072	<0.050	<0.0038	<0.05	<0.0066	<0.0079	<0.00005	<0.0072	<0.0072	<0.050
Methoxychlor	0.03	0.03	100	not established		<0.056	<0.0005	<0.043	<0.043	<0.50	<0.08	<0.5	<0.013	<0.056	<0.0005	<0.043	<0.043	<0.50	<0.08	<0.5	<0.012	<0.056	<0.0005	<0.043	<0.043	<0.50
Toxaphene	0.0002	0.0002	0.00028	0.00028	0.00028	<0.18	<0.005	<0.16	<0.16	<5.0	<0.085	<5	<0.5	<0.18	<0.005	<0.16	<0.16	<5.0	<0.085	<5	<0.47	<0.18	<0.005	<0.16	<0.16	<5.0
Total Pesticides Concentrations (ug/L)						0.16	0.376	0.1662	0.223	0.209	0.2677	0.301		0.361	0.544	0.265	0.446	0.399	0.536	0.382		0.435	0.609	0.342	0.814	0.731
Total Metals (mg/L)																										
Arsenic	0.15	0.15	0.000018	0.00014	0.01	NA	NA	NA	NA	NA	NA	<0.005	0.008	NA	NA	NA	NA	NA	NA	<0.005	0.0041	NA	NA	NA	NA	NA
Copper	0.0158 *	0.0158 *	1.3	not established		NA	NA	NA	NA	NA	NA	**0.0161**	0.016	NA	NA	NA	NA	NA	NA	**0.00796**	0.01	NA	NA	NA	NA	NA
Lead	0.0052 *	0.0052 *	not established			NA	NA	NA	NA	NA	NA	<0.001	0.00067 J	NA	NA	NA	NA	NA	NA	<0.001	<0.0005	NA	NA	NA	NA	NA
Zinc	0.208*	0.208*	7.4	26	not established	NA	NA	NA	NA	NA	NA	**1.16**	0.97	NA	NA	NA	NA	NA	NA	**0.736**	0.5	NA	NA	NA	NA	NA
Dissolved Metals (mg/L)																										
Arsenic	0.15	0.15	0.000018	0.00014	0.01	**0.00212 J**	**0.00228 J**	**0.000704 J**	**0.00175 J**	<0.005	**0.00156 J**	<0.005	0.0015 J	**0.00206 J**	**0.00235 J**	**0.000954 J**	**0.00188 J**	<0.005	**0.00172 J**	<0.005	0.0023 J	**0.00168 J**	**0.00236 J**	**0.00102 J**	**0.00174 J**	<0.005
Copper	0.0158 *	0.0158 *	1.3	not established		**0.0063**	**0.00517**	**0.00471**	**0.00684**	**0.101**	**0.007**	**0.00365**	0.0074	**0.00773**	**0.0054**	**0.00442**	**0.00663**	**0.0149**	**0.00616**	**0.00404**	0.0054	**0.00669**	**0.00514**	**0.00434**	**0.00567**	**0.0932**
Lead	0.0052 *	0.0052 *	not established			<0.000309	<0.001	<0.000099	<0.0001	<0.001	<0.00014	<0.001	<0.0002	<0.000309	<0.001	<0.000099	<0.0001	<0.001	<0.00014	<0.001	<0.0002	<0.000309	<0.001	<0.000099	<0.0001	<0.001
Zinc	0.208*	0.208*	7.4	26	not established	**0.381**	**0.444**	**0.469**	**0.434**	**0.840**	**0.706**	**1.03**	0.89	**0.444**	**0.407**	**0.456**	**0.427**	**0.706**	**0.593**	**0.629**	0.44	**0.399**	**0.406**	**0.435**	**0.377**	**1.68**
Total Dissolved Metals Concentrations (mg/L)						0.38942	0.45145	0.474414	0.44259	0.941	0.71456	1.03365		0.45379	0.41475	0.461374	0.43551	0.0855	0.60088	0.63304		0.40737	0.4135	0.44036	0.38441	1.7732
Total Trichlorobenzenes (ug/L)																										
1,2,3-Trichlorobenzene	not established		not established			NA	NA	NA	NA	NA	NA	NA	<0.97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	not established		35	70	70	NA	NA	NA	NA	NA	NA	NA	<0.54	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate and Sulfate (mg/L)																										
Nitrate as N	not established		10 (nitrates)		not established	**1.4 J**	**1.2**	**1.8**	**1.7**	**0.72**	**1.3**	**0.55**	0.74	**1.3 J**	**1.3**	**1.6**	**1.8**	**0.86**	**1.5**	0.79	NA	**1.8 J**	**1.3**	**1.6**	**1.7**	**2.2**
Sulfate	not established		not established			**97**	**78**	**100**	**85**	**83**	**93**	**87**	110	**100**	**80**	**92**	**89**	**95**	**97**	91	NA	**100**	**82**	**94**	**88**	**120**
Hardness as CaCo3 (mg/L)	not established		not established			NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA
pH (std units)						7.31	7.44	6.96	7.35	5.62	6.61			7.27	7.53	7.12	7.44	6.42	6.98			7.49	7.34	7.93	7.33	6.43
Specific Conductance (mS/cm)						0.545	0.423	0.443	0.501	0.683	0.812			0.533	0.429	0.465	0.615	0.66	0.849			0.598	0.505	0.553	0.615	0.66
Turbidity (NTUs)						23.1	0	5.88	0	0	0			0	49.2	37.4	0	75.1	0			8.4	26.6	3.67	0	67.1
DO (mg/L)						6.2	3.64	10.65	8.03	7.33	9.68			5.93	4.8	4.51	7.54	10.1	8.59			7.23	4.54	9.2	8.16	9.98
ORP (mV)						65	47	27	57	127	51			130	104	47	122	140	119			118	92	82	150	134

Notes:

<0.025 = Constituent not detected above the detection limit shown.
ug/L = micrograms per liter
mg/L = milligrams per liter

J = Result reported between the method detection limit (MDL) and reporting limit (RL). Result is a quantitative estimate.

P = Identification of target analytes using gas chromatography (GC) is based on retention time. Although 2 dissimilar GC columns confirmed the presence of the target analyte in the sample, relative percent difference is >40%.

NA = constituent not analyzed

* = criteria is based on a hardness of 195 mg/L

Bolded = indicates a positive detection in the 2012 through 2015 results

2012 through 2015 Sampling Results that exceeded Georgia Instream Concentrations (GEPD 2013)

2012 through 2015 Sampling Results that exceeded National Ambient Water Quality Criteria (AWQC) (USEPA 2009)

TABLE 4: SUMMARY OF SURFACE WATER ANALYTICAL RESULTS

PARAMETER, UNITS	GA Instream	National AWQC	National AWQC Human Consumption of Water + Organism	National AWQC Human Consumption of Water	GA Instream Human Health	SW2010-11 5/30/2013	SW2010-11 11/16/2012	SW2010-11 9/23/2010	SW2010-14 11/18/2015	SW2010-14 6/4/2015	SW2010-14 11/19/2014	SW2010-14 5/20/2014	SW2010-14 11/19/2013	SW2010-14 5/30/2013	SW2010-14 11/16/2012	SW2010-14 9/23/2010	SW2010-15 11/18/2015	SW2010-15 6/4/2015	SW2010-15 11/19/2014	SW2010-15 5/20/2014	SW2010-15 11/19/2013	SW2010-15 5/30/2013	SW2010-15 11/16/2012	SW2010-15 9/23/2010
Sample Location						'surface water sample from main channel downstream of culvert			surface water sample from main channel downstream of culvert								surface water sample from main channel downstream of culvert							
Distance Along Stream (ft)						1222	1222	1222	1667	1667	1667	1667	1667	1667	1667	1667	1761	1761	1761	1761	1761	1761	1761	1761
Total Organochlorine Pesticides (ug/L)	**Ecological Exposure**		**Human Health Exposure**																					
alpha-BHC	not established		0.0026	0.0049	0.0049	**0.24**	**0.23**	0.19	**0.2**	**0.26**	**0.30**	**0.31**	**0.40**	**0.38**	**0.53**	0.62	**0.2**	**0.17**	**0.29**	**0.27**	**0.36**	**0.32**	**0.53**	0.62
beta-BHC	not established		0.0091	0.017	0.017	**0.29**	**0.27**	0.45	**0.3**	**0.55**	**0.41**	**0.38**	**0.44**	**0.47**	**0.46**	0.73	**0.29**	**0.45**	**0.4**	**0.36**	**0.40**	**0.41**	**0.46**	0.75
gamma-BHC (lindane)	0.95 (acute)	0.95 (acute)	0.98	1.8	1.8	**0.097**	**0.098**	0.11	**0.071**	**0.083**	**0.086**	**0.093**	**0.12**	**0.12**	**0.15**	0.22	**0.065**	**0.057**	**0.082**	**0.087**	**0.11**	**0.1**	**0.15**	0.22
delta-BHC	not established			not established		**0.19**	**0.16**	0.13 P	**0.12**	**0.26**	**0.32**	**0.46**	**0.29**	**0.37**	**0.53**	0.48 P	**0.11**	**0.21**	**0.28**	**0.43**	**0.27**	**0.34**	**0.48**	0.44 P
Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.0066	<0.05	<0.094	<0.014	<0.00005	<0.0022	<0.0022	<0.050	<0.0066	<0.05	<0.095	<0.014	<0.00005	<0.0022	<0.0022	<0.050	<0.0066	<0.05	<0.095
gamma-Chlordane			0.0008	0.00081	0.00081	<0.0047	<0.05	NA	<0.0047	<0.00005	<0.005	<0.005	<0.050	<0.0047	<0.05	NA	<0.0047	<0.00005	<0.005	<0.005	<0.050	<0.0047	<0.05	NA
4,4'-DDD	not established		0.00031	0.00031	0.00031	<0.014	<0.1	<0.0061	<0.0082	<0.0001	<0.0091	<0.0091	<0.10	<0.014	<0.1	<0.0062	<0.0082	<0.0001	<0.0091	<0.0091	<0.10	<0.014	<0.1	<0.0062
4,4'-DDE	not established		0.00022	0.00022	0.00022	<0.0075	<0.1	<0.0073	<0.0069	<0.0001	<0.006	<0.006	<0.10	<0.0075	<0.1	<0.0073	<0.0069	<0.0001	<0.006	<0.006	<0.10	<0.0075	<0.1	<0.0073
4,4'-DDT	0.001	0.001	0.00022	0.00022	0.00022	<0.014	<0.1	<0.0092	<0.0063	<0.0001	<0.0069	<0.0069	<0.10	<0.014	<0.1	<0.0092	**0.0068 J**	<0.0001	<0.0069	<0.0069	<0.10	<0.014	<0.1	<0.0092
Dieldrin	0.056	0.056	0.000052	0.000054	0.000054	<0.013	<0.1	0.012 J	**0.014 J**	**0.015 J**	<0.0091	<0.0091	<0.10	<0.013	<0.1	0.015 J	<0.0072	**0.012 J**	<0.0091	<0.0091	<0.10	<0.013	<0.1	0.017 J
Heptachlor	0.0038	0.0038	0.000079	0.000079	0.000079	<0.0038	<0.05	<0.0066	<0.0079	<0.00005	<0.0072	<0.0072	<0.050	<0.0038	<0.05	<0.0067	<0.0079	<0.00005	<0.0072	<0.0072	<0.050	<0.0038	<0.05	<0.0067
Methoxychlor	0.03	0.03	100	not established		<0.08	<0.5	<0.012	<0.056	<0.0005	<0.043	<0.043	<0.50	<0.08	<0.5	<0.012	<0.056	<0.0005	<0.043	<0.043	<0.50	<0.08	<0.5	<0.012
Toxaphene	0.0002	0.0002	0.00028	0.00028	0.00028	<0.085	<5	<0.47	<0.18	<0.005	<0.16	<0.16	<5.0	<0.085	<5	<0.48	<0.18	<0.005	<0.16	<0.16	<5.0	<0.085	<5	<0.48
Total Pesticides Concentrations (ug/L)						0.817	0.758		0.705	1.168	1.116	1.243	1.25	1.34	1.67		0.6718	0.899	1.052	1.147	1.14	1.17	1.62	
Total Metals (mg/L)																								
Arsenic	0.15	0.15	0.000018	0.00014	0.01	NA	<0.005	0.0059	NA	NA	NA	NA	NA	NA	<0.005	0.028	NA	NA	NA	NA	NA	NA	<0.005	0.0025
Copper	0.0158 *	0.0158 *	1.3	not established		NA	**0.128**	0.22	NA	NA	NA	NA	NA	NA	**0.0918**	0.78	NA	NA	NA	NA	NA	NA	**0.0701**	0.084
Lead	0.0052 *	0.0052 *	not established			NA	**0.00356**	0.012	NA	NA	NA	NA	NA	NA	<0.001	0.014	NA	NA	NA	NA	NA	NA	<0.001	<0.0005
Zinc	0.208*	0.208*	7.4	26	not established	NA	**2.09**	3	NA	NA	NA	NA	NA	NA	**2.46**	15	NA	NA	NA	NA	NA	NA	**2.18**	2.4
Dissolved Metals (mg/L)																								
Arsenic	0.15	0.15	0.000018	0.00014	0.01	**0.00121 J**	<0.005	0.0016 J	**0.00109 J**	**0.00127 J**	**0.000716 J**	**0.0009 J**	<0.005	**0.00086 J**	<0.01	<0.0013	**0.00115**	**0.0013 J**	**0.000827 J**	**0.00096 J**	<0.005	**0.00098 J**	<0.01	<0.0013
Copper	0.0158 *	0.0158 *	1.3	not established		**0.0564**	**0.0572**	0.097	**0.0159**	**0.015**	**0.0183**	**0.0244**	**0.0463**	**0.0393**	**0.0215**	0.048	**0.0144**	**0.0108**	**0.018**	**0.0181**	**0.0382**	**0.0275**	**0.0179**	0.038
Lead	0.0052 *	0.0052 *	not established			<0.00014	<0.001	<0.0002	<0.000309	<0.001	<0.000099	<0.0001	<0.001	<0.00014	<0.002	<0.0002	<0.000309	<0.001	<0.000099	<0.0001	<0.001	<0.00014	<0.002	<0.0002
Zinc	0.208*	0.208*	7.4	26	not established	**1.6**	**1.74**	2.7	**0.8**	**0.852**	**1.27**	**1.11**	**1.89**	**1.62**	**1.96**	2.5	**0.74**	**0.693**	**1.23**	**0.965**	**1.91**	**1.51**	**1.77**	2.2
Total Dissolved Metals Concentrations (mg/L)						1.65761	1.7972		0.81699	0.86827	1.289016	1.1353	1.9363	1.66016	1.9815		0.75555	0.70493	1.248827	0.98406	1.9482	1.53848	1.7879	
Total Trichlorobenzenes (ug/L)																								
1,2,3-Trichlorobenzene	not established		not established			NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.95
1,2,4-Trichlorobenzene	not established		35	70	70	NA	NA	<0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.53
Nitrate and Sulfate (mg/L)																								
Nitrate as N	not established		10 (nitrates)		not established	**3.0**	**3.1**	4.1	**1.8 J**	**1.8**	**1.9**	**2.2**	**1.9**	**2.5**	**2.3**	NA	**1.6 J**	**1.7**	**1.8**	**2.2**	**1.8**	**2.4**	**2.2**	530
Sulfate	not established		not established			**140**	**130**	220	**130**	**110**	**140**	**130**	**130**	**140**	**140**	NA	**130**	**110**	**150**	**130**	**130**	**140**	**150**	330
Hardness as CaCo3 (mg/L)	not established		not established			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA
pH (std units)						6.94			7.38	7.67	6.98	7.19	6.43	7.03			7.15	7.62	6.87	7.36	6.71	7.19		
Specific Conductance (mS/cm)						0.963			0.645	0.532	0.593	0.58	0.734	1.05			0.641	0.532	0.606	0.641	0.722	1.05		
Turbidity (NTUs)						14.2			9.9	1.6	13.2	0	25.7	0			11.7	13.7	3.89	9.81	22.8	25.7		
DO (mg/L)						7.07			6.75	4.68	10.44	10.44	9.49	10.02			6.94	4.75	11.09	9.93	4.03	8.93		
ORP (mV)						186			108	92	64	139	134	189			86	77	85	130	137	181		

Notes:

<0.025 = Constituent not detected above the detection limit shown.
ug/L = micrograms per liter
mg/L = milligrams per liter

J = Result reported between the method detection limit (MDL) and reporting limit (RL). Result is a quantitative estimate.

P = Identification of target analytes using gas chromatography (GC) is based on retention time. Although 2 dissimilar GC columns confirmed the presence of the target analyte in the sample, relative percent difference is >40%.
NA = constituent not analyzed
* = criteria is based on a hardness of 195 mg/L

Bolded = indicates a positive detection in the 2012 through 2015 results

2012 through 2015 Sampling Results that exceeded Georgia Instream Concentrations (GEPD 2013)

2012 through 2015 Sampling Results that exceeded National Ambient Water Quality Criteria (AWQC) (USEPA 2009)

TABLE 4: SUMMARY OF SURFACE WATER ANALYTICAL RESULTS

Sample Location						SW2010-17	SW2010-17	SW2010-17	SW2010-17	SW2010-17	SW2010-17	SW2010-17	SW2010-17	INFLOW 1	INFLOW 1	INFLOW 1	INFLOW 2	INFLOW 2	INFLOW 2
Sample Date						11/18/2015	6/4/2015	11/19/2014	5/20/2014	11/19/2013	5/30/2013	11/16/2012	9/23/2010	6/4/2015	11/19/2014	3/31/2014	6/4/2015	11/19/2014	3/31/2014
Distance Along Stream (ft)						2099	2099	2099	2099	2099	2099	2099	2099	side seep inflowing into drainage feature located on west side of track and upstream of railroad culvert location SW-2010-11			side seep inflowing into main channel of unnamed stream located on west side of track and downstream of railroad culvert		
PARAMETER, UNITS	GA Instream	National AWQC	National AWQC Human Consumption of Water + Organism	National AWQC Human Consumption of Water	GA Instream Human Health	surface water sample from main channel downstream of culvert								seep sample			seep sample		seep sample
Total Organochlorine Pesticides (ug/L)	**Ecological Exposure**		**Human Health Exposure**																
alpha-BHC	not established		0.0026	0.0049	0.0049	**0.18**	**0.2**	**0.29**	**0.24**	**0.33**	**0.32**	**0.45**	0.31	**0.22**	**0.12**	**0.22**	**0.038 J**	**0.17**	<0.05
beta-BHC	not established		0.0091	0.017	0.017	**0.27**	**0.48**	**0.37**	**0.33**	**0.40**	**0.39**	**0.39**	0.48	**1.9**	**0.079**	**1.2**	**0.073**	**0.28**	**0.12**
gamma-BHC (lindane)	0.95 (acute)	0.95 (acute)	0.98	1.8	1.8	**0.055**	**0.068**	**0.082**	**0.075**	**0.098**	**0.096**	**0.13**	0.11	**0.12**	**0.038 J**	**0.11**	<0.00005	**0.058**	<0.05
delta-BHC	not established			not established		**0.095**	**0.23**	**0.26**	**0.4**	**0.24**	**0.36**	**0.42**	0.21 P	**0.24**	**0.072**	**0.38**	**0.061**	**0.13**	<0.05
Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.014	<0.00005	<0.0022	<0.0022	<0.050	<0.0066	<0.05	<0.094	<0.00005	<0.0022	<0.05	<0.00005	<0.0022	<0.05
gamma-Chlordane			0.0008	0.00081	0.00081	<0.0047	<0.00005	<0.005	<0.005	<0.050	<0.0047	<0.05	NA	<0.00005	<0.0050	<0.05	<0.00005	<0.0050	<0.05
4,4'-DDD	not established		0.00031	0.00031	0.00031	<0.0082	<0.0001	<0.0091	<0.0091	<0.10	<0.014	<0.1	<0.0061	<0.0001	<0.0091	<0.1	<0.0001	<0.0091	<0.1
4,4'-DDE	not established		0.00022	0.00022	0.00022	<0.0069	<0.0001	<0.006	<0.006	<0.10	<0.0075	<0.1	<0.0073	<0.0001	<0.0060	<0.1	<0.0001	<0.0060	<0.1
4,4'-DDT	0.001	0.001	0.00022	0.00022	0.00022	<0.0063	<0.0001	<0.0069	<0.0069	<0.10	<0.014	<0.1	<0.0092	<0.0001	<0.0069	<0.1	<0.0001	<0.0069	<0.1
Dieldrin	0.056	0.056	0.000052	0.000054	0.000054	<0.0072	**0.013 J**	<0.0091	<0.0091	<0.10	<0.013	<0.1	<0.0086	**0.037 J**	<0.0091	<0.1	<0.0001	<0.0091	<0.1
Heptachlor	0.0038	0.0038	0.000079	0.000079	0.000079	<0.0079	<0.00005	<0.0072	<0.0072	<0.050	<0.0038	<0.05	<0.0066	<0.00005	<0.0072	<0.05	<0.00005	<0.0072	<0.05
Methoxychlor	0.03	0.03	100	not established		<0.056	<0.0005	<0.043	<0.043	<0.50	<0.08	<0.5	<0.012	<0.0005	<0.043	<0.5	<0.0005	<0.043	<0.5
Toxaphene	0.0002	0.0002	0.00028	0.00028	0.00028	<0.18	<0.005	<0.16	<0.16	<5.0	<0.085	<5	<0.47	<0.005	<0.16	<5	<0.005	<0.16	<5
Total Pesticides Concentrations (ug/L)						0.6	0.991	1.002	1.045	1.068	1.166	1.39		2.517	0.309	1.91	0.172	0.638	0.12
Total Metals (mg/L)																			
Arsenic	0.15	0.15	0.000018	0.00014	0.01	NA	NA	NA	NA	NA	NA	<0.005	0.0029	NA	NA	<0.005	NA	NA	<0.005
Copper	0.0158 *	0.0158 *	1.3	not established		NA	NA	NA	NA	NA	NA	**0.0544**	0.054	NA	NA	**0.476**	NA	NA	**0.0021**
Lead	0.0052 *	0.0052 *	not established			NA	NA	NA	NA	NA	NA	<0.001	<0.0005	NA	NA	<0.001	NA	NA	<0.001
Zinc	0.208*	0.208*	7.4	26	not established	NA	NA	NA	NA	NA	NA	**1.83**	1.9	NA	NA	**6.28**	NA	NA	**0.219**
Dissolved Metals (mg/L)																			
Arsenic	0.15	0.15	0.000018	0.00014	0.01	**0.00111 J**	**0.00143 J**	**0.000935 J**	**0.00122 J**	<0.005	**0.00096 J**	<0.01	0.0013 J	**0.000269 J**	**0.000917 J**	<0.005	**0.00104 J**	**0.000923 J**	<0.005
Copper	0.0158 *	0.0158 *	1.3	not established		**0.0107**	**0.00947**	**0.014**	**0.017**	**0.0314**	**0.0225**	**0.0127**	0.024	**0.246**	**0.00492**	**0.256**	**0.000426 J**	**0.0136**	<0.002
Lead	0.0052 *	0.0052 *	not established			<0.000309	<0.001	<0.000099	<0.0001	**0.00126**	<0.00014	<0.002	<0.0002	<0.001	<0.000099	<0.001	<0.001	<0.000099	<0.001
Zinc	0.208*	0.208*	7.4	26	not established	**0.704**	**0.697**	**1.12**	**0.956**	**1.75**	**1.31**	**1.47**	1.6	**6.62**	**0.482**	**6.08**	<0.01	**0.847**	**0.221**
Total Dissolved Metals Concentrations (mg/L)						0.71581	0.7079	1.134935	0.97422	1.78266	1.33346	1.4827		6.866269	0.487837	6.336	0.001466	0.861523	0.221
Total Trichlorobenzenes (ug/L)																			
1,2,3-Trichlorobenzene	not established		not established			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	not established		35	70	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate and Sulfate (mg/L)																			
Nitrate as N	not established		10 (nitrates)		not established	**1.6 J**	**1.7**	**1.8**	**2.1**	**1.8**	**2.3**	**1.9**	NA	**7.8**	**1.5**	**9.1**	<0.25	**2.1**	**0.34**
Sulfate	not established		not established			**120**	**110**	**150**	**120**	**130**	**140**	**130**	NA	**280**	**92**	**390**	**49**	**130**	**96**
Hardness as CaCo3 (mg/L)	not established		not established			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (std units)						6.7	7.16	6.26	6.59	6.82	7.38			7.12	6.9		7.6	6.99	
Specific Conductance (mS/cm)						0.647	0.533	0.593	0.643	0.734	1.04			0.789	0.465		0.641	0.535	
Turbidity (NTUs)						14.1	11.5	8.74	0	0	10.1			0.3	11.5		3.6	4.88	
DO (mg/L)						7.99	5.66	13.76	14.19	6.99	7.6			3.37	12.31		0	8.82	
ORP (mV)						35	33	145	92	52	181			136	70		-49	103	

Notes:

<0.025 = Constituent not detected above the detection limit shown.
ug/L = micrograms per liter
mg/L = milligrams per liter

J = Result reported between the method detection limit (MDL) and reporting limit (RL). Result is a quantitative estimate.

P = Identification of target analytes using gas chromatography (GC) is based on retention time. Although 2 dissimilar GC columns confirmed the presence of the target analyte in the sample, relative percent difference is >40%.
NA = constituent not analyzed
* = criteria is based on a hardness of 195 mg/L

Bolded = indicates a positive detection in the 2012 through 2015 results

2012 through 2015 Sampling Results that exceeded Georgia Instream Concentrations (GEPD 2013)

2012 through 2015 Sampling Results that exceeded National Ambient Water Quality Criteria (AWQC) (USEPA 2009)

TABLE 4: SUMMARY OF SURFACE WATER ANALYTICAL RESULTS

Sample Location						SW2014-20	SW2014-20	SW2014-20	SW2014-20	SW2014-21	SW2014-21	SW2014-21	SW2014-21
Sample Date						11/18/2015	6/4/2015	11/19/2014	5/20/2014	11/18/2015	6/4/2015	11/19/2014	5/20/2014
Distance Along Stream (ft)						side seep inflowing into drainage feature located on west side of track and upstream of railroad culvert location SW-2010-11				side seep inflowing into drainage feature on west side of track and about 85 ft upstream of location SW2014-20			
PARAMETER, UNITS	GA Instream	National AWQC	National AWQC Human Consumption of Water + Organism	National AWQC Human Consumption of Water	GA Instream Human Health								
Total Organochlorine Pesticides (ug/L)						seep sample				seep sample			
	Ecological Exposure		**Human Health Exposure**										
alpha-BHC	not established		0.0026	0.0049	0.0049	**0.33**	**0.33**	**0.14**	**0.28**	**0.17**	**0.25**	**0.2**	**0.22**
beta-BHC	not established		0.0091	0.017	0.017	**2.1**	**2.2**	**1.5**	**1.0**	**2.2**	**2.2**	**1.2**	**1.2**
gamma-BHC (lindane)	0.95 (acute)	0.95 (acute)	0.98	1.8	1.8	**0.16**	**0.16**	**0.078**	**0.13**	**0.092**	**0.13**	**0.10**	**0.11**
delta-BHC	not established			not established		**0.17**	**0.3**	**0.18**	**0.49**	**0.13**	**0.22**	**0.15**	**0.53**
Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.014	<0.00005	<0.0022	<0.0022	<0.014	<0.00005	<0.0022	<0.0022
gamma-Chlordane			0.0008	0.00081	0.00081	<0.0047	<0.00005	<0.005	<0.005	<0.0047	<0.00005	<0.0050	<0.005
4,4'-DDD	not established		0.00031	0.00031	0.00031	<0.0082	<0.0001	<0.0091	<0.0091	<0.0082	<0.0001	<0.0091	<0.0091
4,4'-DDE	not established		0.00022	0.00022	0.00022	<0.0069	<0.0001	<0.006	<0.006	<0.0069	<0.0001	<0.006	<0.006
4,4'-DDT	0.001	0.001	0.00022	0.00022	0.00022	<0.0063	<0.0001	<0.0069	<0.0069	<0.0063	<0.0001	<0.0069	<0.0069
Dieldrin	0.056	0.056	0.000052	0.000054	0.000054	**0.038 J**	**0.046 J**	<0.0091	**0.021 J**	**0.041 J**	**0.043 J**	<0.0091	**0.020 J**
Heptachlor	0.0038	0.0038	0.000079	0.000079	0.000079	<0.0079	<0.00005	<0.0072	<0.0072	<0.0079	<0.00005	<0.0072	<0.0072
Methoxychlor	0.03	0.03	100	not established		<0.056	<0.0005	<0.043	<0.043	<0.056	<0.0005	<0.043	<0.043
Toxaphene	0.0002	0.0002	0.00028	0.00028	0.00028	<0.18	<0.005	<0.16	<0.16	<0.18	<0.005	<0.16	<0.16
Total Pesticides Concentrations (ug/L)						2.798	3.036	1.898	1.921	2.633	2.843	1.65	2.06
Total Metals (mg/L)													
Arsenic	0.15	0.15	0.000018	0.00014	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Copper	0.0158 *	0.0158 *	1.3	not established		NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.0052 *	0.0052 *		not established		NA	NA	NA	NA	NA	NA	NA	NA
Zinc	0.208*	0.208*	7.4	26	not established	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (mg/L)													
Arsenic	0.15	0.15	0.000018	0.00014	0.01	**0.000183 J**	**0.000338 J**	<0.000536	<0.00054	**0.000180 J**	**0.000272 J**	<0.000536	<0.00054
Copper	0.0158 *	0.0158 *	1.3	not established		**0.227**	**0.148**	**0.157**	**0.229**	**0.327**	**0.348**	**0.0714**	**0.296**
Lead	0.0052 *	0.0052 *		not established		<0.000309	<0.001	**0.00281**	<0.0001	<0.000309	<0.001	<0.000099	<0.0001
Zinc	0.208*	0.208*	7.4	26	not established	**5.84**	**5.86**	**4.24**	**5.65**	**6.35**	**7.05**	**3.75**	**6.13**
Total Dissolved Metals Concentrations (mg/L)						6.067183	6.008338	4.39981	5.879	6.67718	7.398272	3.8214	6.426
Total Trichlorobenzenes (ug/L)													
1,2,3-Trichlorobenzene	not established			not established		NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	not established		35	70	70	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate and Sulfate (mg/L)													
Nitrate as N	not established		10 (nitrates)		not established	**6.9**	**7.1**	**8.3**	**9.5**	**7.6**	**8.4**	**8.1**	**9.9**
Sulfate	not established			not established		**300**	**270**	**350**	**330**	**310**	**310**	**280**	**360**
Hardness as CaCo3 (mg/L)	not established			not established		NA	NA	NA	NA		NA	NA	NA
pH (std units)						6.67	7.07	6.57	6.74	6.63	6.82	6.58	6.75
Specific Conductance (mS/cm)						0.821	0.783	0.867	1.09	0.858	0.797	0.876	1.14
Turbidity (NTUs)						0.2	139	13.5	0	0	0.2	62.5	0
DO (mg/L)						5.37	2.99	7.14	7.62	4.72	2.14	8.02	7.09
ORP (mV)						175	153	120	179	173	135	115	156

Notes:

<0.025 = Constituent not detected above the detection limit shown.
ug/L = micrograms per liter
mg/L = milligrams per liter

J = Result reported between the method detection limit (MDL) and reporting limit (RL). Result is a quantitative estimate.

P = Identification of target analytes using gas chromatography (GC) is based on retention time. Although 2 dissimilar GC columns confirmed the presence of the target analyte in the sample, relative percent difference is >40%.
NA = constituent not analyzed
* = criteria is based on a hardness of 195 mg/L

Bolded = indicates a positive detection in the 2012 through 2015 results

2012 through 2015 Sampling Results that exceeded Georgia Instream Concentrations (GEPD 2013)

2012 through 2015 Sampling Results that exceeded National Ambient Water Quality Criteria (AWQC) (USEPA 2009)

Prepared by: NJM 12/21/2015
Checked by: RNQ 7/13/2015

TABLE 5: SUMMARY OF M & J SOLVENTS SITE-SPECIFIC VOCs ANALYZED

Well		MW-1B	MW-1B	MW-1B	MW-22	MW-22	MW-22	MW-22	MW-25	MW-25	MW-26	MW-26	MW-101	MW-101	MW-101	MW-102	MW-102	MW-104A
Date Sampled		**11/10/2015**	**5/27/2015**	**11/11/2014**	**11/12/2015**	**5/29/2015**	**11/12/2014**	**9/13/2010**	**11/13/2015**	**6/2/2015**	**11/11/2015**	**5/28/2015**	**11/10/2015**	**5/27/2015**	**11/11/2014**	**11/10/2015**	**5/27/2015**	**11/11/2015**
Lithology Screened		Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil
Constituent	**Units**																	
1,1,1-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0		<5.0	<5.0		<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<9.5	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<10	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<25	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<10	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	**8.1**	**10**	**9.2**	**2.7**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200		<200	<200			<200	<200	<200		<200	<200		<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0		<5.0	<5.0		<5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10	<10		<10	<10		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	<5.0		<5.0	<5.0		<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0
Total VOCs	ug/L	BDL	BDL	BDL	**8.1**	**10**	**9.2**	**2.7**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 5: SUMMARY OF M & J SOLVENTS SITE-SPECIFIC VOCs ANALYZED

Well		MW-104A	MW-104A	MW-104A	MW-104D	MW-104D	MW-104D Duplicate	MW-104D	MW-104D	MW-106D	MW-106D	MW-107D	MW-107D	MW-108	MW-108
Date Sampled		**6/1/2015**	**11/12/2014**	**9/15/2010**	**11/12/2015**	**6/3/2015**	**6/3/2015**	**11/13/2014**	**9/15/2010**	**11/13/2015**	**6/2/2015**	**11/12/2015**	**6/1/2015**	**11/11/2015**	**5/28/2015**
Lithology Screened		Residual Soil	Residual Soil	Residual Soil	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Residual Soil	Residual Soil
Constituent	**Units**														
1,1,1-Trichloroethane	ug/L	<5.0	<5.0	<1	<5000	<5.0	<5.0	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<1	<5000	<5.0	<5.0	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<1	<5000	<5.0	<5.0	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<1	<5000	**28**	**29**	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<1	<5000	<5.0	<5.0	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0		<1	<5000	<5.0	<5.0		<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<1	<5000	<5.0	<5.0	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<1	<5000	<5.0	<5.0	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<1	<5000	<5.0	<5.0	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	**73**	<150000	**20,000**	**22000**		**11,000**	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<10	**350,000**	**210,000**	**220000**	**260,000**	**380,000**	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	**110,000**	**100,000**	**96000**	**120,000**	**140,000**	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<25	**390,000**	**200,000**	**220000**	**290,000**	**370,000**	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<1	<5000	**360**	**330**	**290**	**330**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<1	<5000	<5.0	<5.0	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0		<5000	<5.0	<5.0	<250		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	<1	<5000	**20**	**20**	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<1	<10000	**100**	**100**	<500	**390**	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<1	<5000	<5.0	<5.0	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<10	<10	<1	<10000	<10	<10	<500	<200	<10	<10	<10	<10	<10	<10
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<1	<5000	<5.0	<5.0	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<1	<5000	<5.0	<5.0	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<1	<5000	**4200**	**4200**	**4300**	**3900**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200			<200000	<200				<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<1	<5000	**67**	**67**	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5	<5000	**52**	**53**	<250	<1000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0		<5	<5000	**120**	**120**		<1000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<1	<5000	<5.0	<5.0	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<1	<5000	<5.0	<5.0	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10		<10	**57,000**	**49000**	**48000**		**69000**	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<1	**66000**	**71000**	**71000**	**67000**	**62000**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<1	<5000	**40**	**41**	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<1	<5000	<5.0	<5.0	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	ug/L	<5.0	<5.0	<1	<5000	<5.0	<5.0	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<1	<2000	<2.0	<2.0	<100	<200	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0		<2	**22000**	**21000**	**21000**		**18000**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	BDL	BDL	**73**	**995,000**	**675,987**	702,960	**763,190**	**1,054,620**	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 5: SUMMARY OF M & J SOLVENTS SITE-SPECIFIC VOCs ANALYZED

Well		MW-109	MW-109	MW-110	MW-110	MW-110	MW-111	MW-111	MW-112	MW-112	MW-113	MW-113	MW-114	MW-114	MW-115	MW-115
Date Sampled		**11/16/2015**	**6/3/2015**	**11/11/2015**	**5/29/2015**	**11/12/2014**	**11/16/2015**	**6/3/2015**	**11/10/2015**	**5/28/2015**	**11/16/2015**	**6/2/2015**	**11/16/2015**	**6/2/2015**	**11/16/2015**	**6/1/2015**
Lithology Screened		Residual Soil	Residual Soil	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil
Constituent	**Units**															
1,1,1-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	**93**	**97**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**58**	**56**	<5.0	<5.0	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200		<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**51**	**44**	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	BDL	BDL	BDL	BDL	BDL	**93**	**97**	BDL	BDL	**109**	**100**	BDL	BDL	BDL	BDL

TABLE 5: SUMMARY OF M & J SOLVENTS SITE-SPECIFIC VOCs ANALYZED

Well		MW-116	MW-116	MW-119	MW-119	MW-119	MW-120	MW-120	MW-120	MW-121	MW-121	TW-1	TW-1	TW-2	TW-2
Date Sampled		**11/12/2015**	**5/28/2015**	**11/17/2015**	**6/5/2015**	**11/18/2014**	**11/17/2015**	**6/4/2015**	**11/19/2014**	**11/13/2015**	**6/5/2015**	**11/11/2015**	**5/28/2015**	**11/12/2015**	**5/28/2015**
Lithology Screened		Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Residual Soil	Residual Soil	Residual Soil	Residual Soil
Constituent	**Units**														
1,1,1-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**9.9**	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**6.7**	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	**370**		<150	**220**	**420**	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**0.87 J**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/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	**18**	**14**
Chloromethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	**8.6**	**7.1**	**7.6**	<5.0	<5.0	**350**	**580**	**69**	**53**
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200		<200	<200		<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0		<5.0	<5.0	**11**	**48**	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**5.7**	**11**	**6.9**	**8.9**
Tetrahydrofuran	ug/L	<10	<10	<10	<10		<10	<10		<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	**8.5**	<5.0	**3.4 J**	<5.0	<5.0	**1000**	**1900**	**68**	**51**
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**3.6**	**5**	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0		<5.0	<5.0	<5.0	**5.1**	<5.0	<5.0
Total VOCs	ug/L	BDL	BDL	BDL	**370**	BDL	**17.1**	**227.1**	**427.6**	BDL	BDL	**1370.3**	**2565.7**	**161.9**	**126.9**

TABLE 5: SUMMARY OF M & J SOLVENTS SITE-SPECIFIC VOCs ANALYZED

Well		TW-3	TW-3	TW-3	TW-4	TW-4	TW-5	TW-5	TW-5	TW-6	TW-6	TW-7	TW-7	TW-7	TW-8	TW-8
Date Sampled		**11/12/2015**	**6/5/2015**	**11/13/2014**	**11/12/2015**	**5/29/2015**	**11/16/2015**	**6/1/2015**	**11/13/2014**	**11/16/2015**	**6/1/2015**	**11/17/2015**	**6/5/2015**	**11/18/2014**	**11/13/2015**	**6/2/2015**
Lithology Screened		Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil
Constituent	**Units**															
1,1,1-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0		<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/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	**78**	**69**
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150		<150	<150	<150	<150		<150	<150	<150	<150		<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	**10**	**11**	**8.6**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**140**	**110**
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	**15**	**13**	**14**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**810**	**550**
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
cis-1,2-Dichloroethene	ug/L	**200**	**140**	**200**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200		<200	<200	<200	<200		<200	<200	<200	<200		<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0		<5.0	**5.4**	<5.0	<5.0		<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10	<10		<10	<10	<10	<10		<10	<10	<10	<10		<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/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
Total VOCs	ug/L	**225.0**	**164.0**	**222.6**	BDL	BDL	BDL	BDL	BDL	BDL	**5.4**	BDL	BDL	BDL	**1,028**	**729**

TABLE 5: SUMMARY OF M & J SOLVENTS SITE-SPECIFIC VOCs ANALYZED

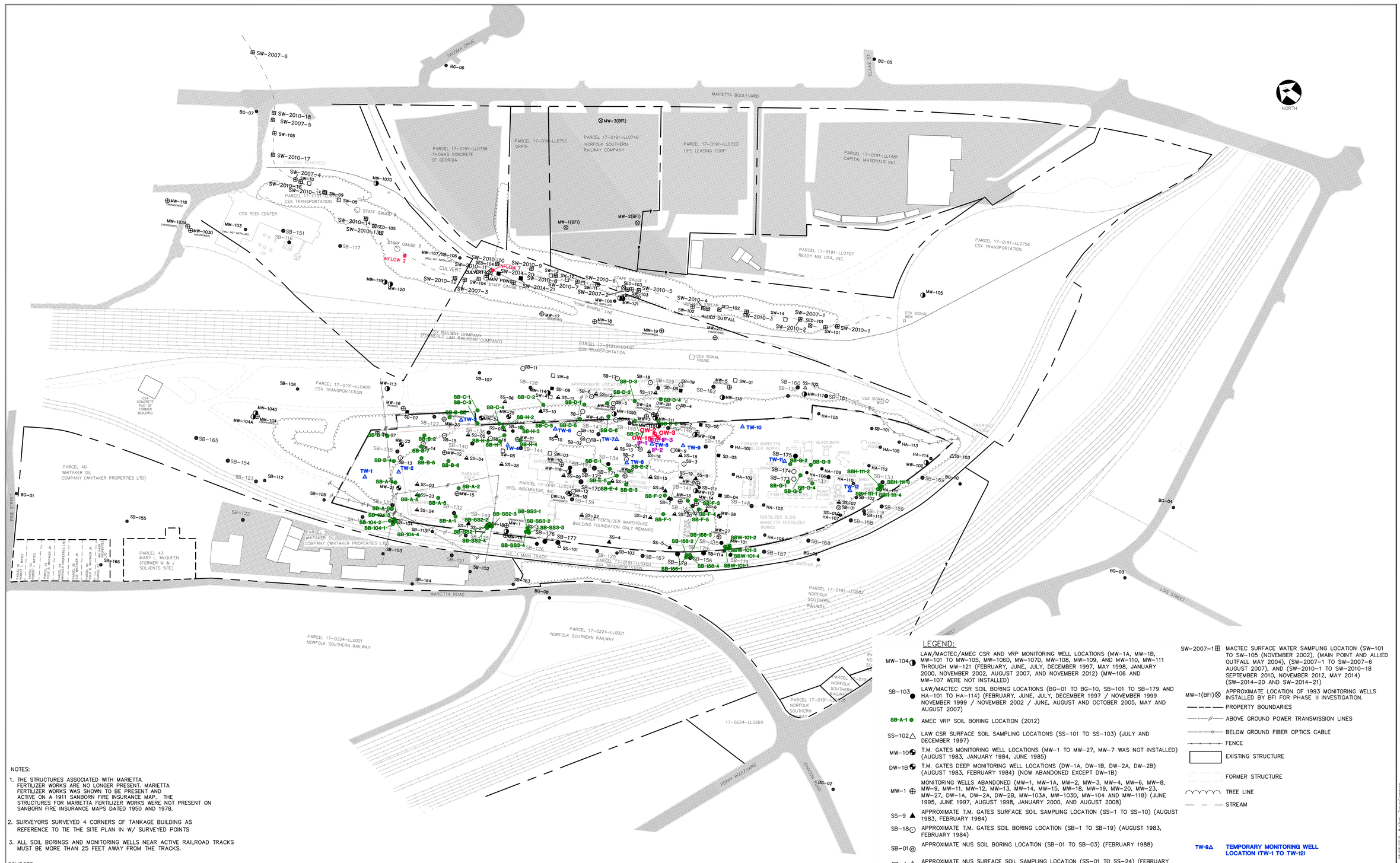
Well		TW-9	TW-9	TW-10	TW-10	TW-11	TW-11	TW-12	TW-12	Highest Concentration Detected in M &J Solvent Wells (1)		
Date Sampled		11/17/2015	6/8/2015	11/17/2015	6/8/2015	11/11/2015	5/27/2015	11/10/2015	5/27/2015			
Lithology Screened		Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil		M & J Solvent Wells Are Screened in Residual Soil and Bedrock	
Constituent	**Units**									**Constituent**	**Units**	
1,1,1-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1,1,1-Trichloroethane	ug/L	**87,000**
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1,1,2,2-Tetrachloroethane	ug/L	<5000
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1,1,2-Trichloroethane	ug/L	**8,600**
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1,1-Dichloroethane	ug/L	**18,000**
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1,1-Dichloroethene	ug/L	**21,000**
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1,1-Dichloropropene	ug/L	<5000
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1,2,4-Trichlorobenzene	ug/L	<5000
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1,2-Dichloroethane	ug/L	**170**
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1,2-Dichloropropane	ug/L	<5000
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<150	<150	**1,4-Dioxane**	ug/L	**730,000**
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	**2-Butanone**	ug/L	**380,000**
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	**4-Methyl-2-pentanone**	ug/L	**120,000**
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	**Acetone**	ug/L	**1,200,000**
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**Benzene**	ug/L	**760**
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	Carbon tetrachloride	ug/L	**120,000**
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0			
Chlorobenzene	ug/L	**10**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	Chlorobenzene	ug/L	<5000
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	**Chloroethane**	ug/L	**6,300**
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	Chloroform	ug/L	**1,600**
Chloromethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	Chloromethane	ug/L	**990**
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**cis-1,2-Dichloroethene**	ug/L	**32,000**
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	Cyclohexane	ug/L	**19,000**
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**Ethylbenzene**	ug/L	**4,200**
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200			
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0			
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	Methylene Chloride	ug/L	**88,000**
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	Naphthalene	ug/L	**190**
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	Styrene	ug/L	<5000
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	Tetrachloroethene	ug/L	**1,400**
Tetrahydrofuran	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	**Tetrahydrofuran**	ug/L	**86,000**
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**Toluene**	ug/L	**96,000**
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	trans-1,2-Dichloroethene	ug/L	**74,000**
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	Trichloroethene	ug/L	**13,000**
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	Trichlorofluoromethane	ug/L	**36**
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	Vinyl chloride	ug/L	**1,200**
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**Xylenes, Total**	ug/L	**2,400**
Total VOCs	ug/L	**10**	BDL	BDL	BDL	BDL	BDL	BDL	BDL			

Notes:
1. ug/L = micrograms per liter
2. Bolded concentrations are postive detection of constituents
3. VOCs = volatile organic compounds analyzed by USEPA method 8260B
4. (1) M & J Solvents groundwater data is from the Corrective Action Plan Addendum dated October 30, 2006.
5. BDL = below detection limit

TABLE 6: SUMMARY OF HOURS INVOICED AND DESCRIPTION OF SERVICES FOR DOCUMENTATION OF PE DIRECT OVERSIGHT FOR VOLUNTARY REMEDIATION PROGRAM ACTIVITIES

	Hours Invoiced	Billing Period	Invoice #	Description of Services
Gregory J. Wrenn, P.E.	6	07/25/2015-08/21/2015	H081002345	
	38.3		9/2/2015	Finalized and submitted VRP Status Report No. 7 and Treatability Study Technical Memorandum. Prepared and submitted surface water quality data package to EPD per their 6/4/2015 request.
Gregory J. Wrenn, P.E.	7.0	08/22/2015-11/20/2015	H081002799	
Total Project Hours for Billing Period	234.9		11/24/2015	Conducted second semi-annual groundwater and surface water sampling event for 2015, including additional VOC sampling and analysis to evaluate impacts from M&J Solvents/Whitaker Oil properties. Initiated planning for design/permitting of surficial limestone permeable reactive barrier and evaluated potential applicability of reactive mat for seep areas. Site visit to evaluate wetlands in seep area for USACE jurisdictional determination.
Gregory J. Wrenn, P.E.	1.5	11/21/2015-12/11/2015	H081002834	
Total Project Hours for Billing Period	9.7		12/17/2015	Initiated preparation of the VRP Status Report No.8. Prepared proposal to client for design/permitting of surficial permeable reactive barrier at drainage feature on un-named stream.
Gregory J. Wrenn, P.E.	11.0	12/12/2015-1/22/2016	H081002868	
Total Project Hours for Billing Period	103.7		1/29/2016	Evaluation of field and laboratory data, preparation of potentiometric and delineation maps for VRP Status Report No. 8.
Total Hours for PE Gregory J. Wrenn	**25.5**			
Total Project Hours	**386.6**			

FIGURES



NOTES:

1. THE STRUCTURES ASSOCIATED WITH MARIETTA FERTILIZER WORKS ARE NO LONGER PRESENT. MARIETTA FERTILIZER WORKS WAS SHOWN TO BE PRESENT AND ACTIVE ON A 1911 SANBORN FIRE INSURANCE MAP. THE STRUCTURES FOR MARIETTA FERTILIZER WORKS WERE NOT PRESENT ON SANBORN FIRE INSURANCE MAPS DATED 1950 AND 1978.
2. SURVEYORS SURVEYED 4 CORNERS OF TANKAGE BUILDING AS REFERENCE TO TIE THE SITE PLAN IN W/ SURVEYED POINTS
3. ALL SOIL BORINGS AND MONITORING WELLS NEAR ACTIVE RAILROAD TRACKS MUST BE MORE THAN 25 FEET AWAY FROM THE TRACKS.

SOURCES:

1. T.M. GATES REPORTS 1986
2. NUS CORPORATION SITE INVESTIGATION REPORT, AUGUST 1988.
3. TOPOGRAPHIC SURVEY MAP PREPARED FOR BFEL BY TRAVIS PRUITT AND ASSOCIATES, DECEMBER 19, 1989.
4. AERIAL PHOTOGRAPH AND COMPOSITE PLAT BY BLUE RIDGE ENGINEERING, DECEMBER 10, 1996.
5. BOUNDARY SURVEY BY W.L. JORDEN AND COMPANY, APRIL 2, 1997. LAW CSR SOIL BORINGS AND MONITORING WELLS SURVEYED BY W.L. JORDEN IN 1997, 1998, 1999, AND 2000.
6. MARIETTA FERTILIZER WORKS STRUCTURES FROM SANBORN FIRE INSURANCE MAP 1911.
7. MACTEC/LAW CSR SOIL BORINGS AND MONITORING WELLS (2002–2007) AND SURFACE WATER LOCATIONS SURVEYED BY MACTEC ENGINEERING AND CONSULTING INC.
8. PROPERTY OWNERS SHOWN ARE BASED ON 1996 FULTON COUNTY TAX RECORDS
9. WHITAKER AND MARY L. McQUEEN PROPERTY BOUNDARIES WERE REVISED AND ARE APPROXIMATE AND ARE BASED ON FULTON COUNTY BOARD OF ASSESSORS RECORDS 2004–2005 AT www.fultonassessor.org

CADD NOTE: DRAWING XREFS ROTATED @ 0,0; 55° FROM SURVEY FILE COORDINATE POSITION.

LEGEND:

- MW-104 ◑ LAW/MACTEC/AMEC CSR AND VRP MONITORING WELL LOCATIONS (MW-1A, MW-1B, MW-101 TO MW-105, MW-106D, MW-107D, MW-108, MW-109, AND MW-110, MW-111 THROUGH MW-121 (FEBRUARY, JUNE, JULY, DECEMBER 1997, MAY 1998, JANUARY 2000, NOVEMBER 2002, AUGUST 2007, AND NOVEMBER 2012) (MW-106 AND MW-107 WERE NOT INSTALLED)
- SB-103 ● LAW/MACTEC CSR SOIL BORING LOCATIONS (BG-01 TO BG-10, SB-101 TO SB-179 AND HA-101 TO HA-114) (FEBRUARY, JUNE, JULY, DECEMBER 1997 / NOVEMBER 1999 NOVEMBER 1999 / NOVEMBER 2002 / JUNE, AUGUST AND OCTOBER 2005, MAY AND AUGUST 2007)
- SB-A-1 ● AMEC VRP SOIL BORING LOCATION (2012)
- SS-102 △ LAW CSR SURFACE SOIL SAMPLING LOCATIONS (SS-101 TO SS-103) (JULY AND DECEMBER 1997)
- MW-10 ◔ T.M. GATES MONITORING WELL LOCATIONS (MW-1 TO MW-27, MW-7 WAS NOT INSTALLED) (AUGUST 1983, JANUARY 1984, JUNE 1985)
- DW-1B ◔ T.M. GATES DEEP MONITORING WELL LOCATIONS (DW-1A, DW-1B, DW-2A, DW-2B) (AUGUST 1983, FEBRUARY 1984) (NOW ABANDONED EXCEPT DW-1B)
- MW-1 ⊕ MONITORING WELLS ABANDONED (MW-1, MW-1A, MW-2, MW-3, MW-4, MW-6, MW-8, MW-9, MW-11, MW-12, MW-13, MW-14, MW-15, MW-18, MW-19, MW-20, MW-23, MW-27, DW-1A, DW-2A, DW-2B, MW-103A, MW-103D, MW-104 AND MW-118) (JUNE 1995, JUNE 1997, AUGUST 1998, JANUARY 2000, AND AUGUST 2008)
- SS-9 ▲ APPROXIMATE T.M. GATES SURFACE SOIL SAMPLING LOCATION (SS-1 TO SS-10) (AUGUST 1983, FEBRUARY 1984)
- SB-18 ○ APPROXIMATE T.M. GATES SOIL BORING LOCATION (SB-1 TO SB-19) (AUGUST 1983, FEBRUARY 1984)
- SB-01 ◎ APPROXIMATE NUS SOIL BORING LOCATION (SB-01 TO SB-03) (FEBRUARY 1988)
- SS-4 ▲ APPROXIMATE NUS SURFACE SOIL SAMPLING LOCATION (SS-01 TO SS-24) (FEBRUARY 1988)
- SD-4 ■ APPROXIMATE NUS SEDIMENT SAMPLING LOCATION (SD-01 TO SD-03 OFF-SITE, SD-04 TO SD-09 ON-SITE) (FEBRUARY 1988)
- SW-4 □ APPROXIMATE T.M. GATES SURFACE WATER SAMPLING LOCATION (SW-01 TO SW-14 ON-SITE, SW-15 TO SW-17 OFF-SITE) (APRIL 1985)
- ○ STAFF GAUGE
- SED-101 ⊠ MACTEC SEDIMENT SAMPLING LOCATION (SED-101 TO SED-105 AND APPROXIMATE LOCATION OF MAIN POINT) (JANUARY 2000 AND MAY 2004)
- SW-2007-1 ⊞ MACTEC SURFACE WATER SAMPLING LOCATION (SW-101 TO SW-105 (NOVEMBER 2002), (MAIN POINT AND ALLIED OUTFALL MAY 2004), (SW-2007-1 TO SW-2007-6 AUGUST 2007), AND (SW-2010-1 TO SW-2010-18 SEPTEMBER 2010, NOVEMBER 2012, MAY 2014) (SW-2014-20 AND SW-2014-21)
- MW-1(BFI) ⊗ APPROXIMATE LOCATION OF 1993 MONITORING WELLS INSTALLED BY BFI FOR PHASE II INVESTIGATION.
- PROPERTY BOUNDARIES
- ABOVE GROUND POWER TRANSMISSION LINES
- BELOW GROUND FIBER OPTICS CABLE
- FENCE
- EXISTING STRUCTURE
- FORMER STRUCTURE
- TREE LINE
- STREAM
- TW-9 △ TEMPORARY MONITORING WELL LOCATION (TW-1 TO TW-12)
- OW-3 ⊗ OBSERVATION WELL FOR INJECTION PILOT STUDY (OW-1 - OW-3)
- IP-3 ⊙ INJECTION POINT
- ● APPROXIMATE LOCATION INFLOW SAMPLES

REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED R. QUINN
DRAWN T. GLADSTONE
CHECKED G. WRENN
IN CHARGE G. WRENN
DATE 8/4/2014

FORMER ESTECH GENERAL CHEMICALS SITE
ATLANTA, GEORGIA

AMEC FOSTER WHEELER
ENVIRONMENT & INFRASTRUCTURE, INC.
1075 BIG SHANTY ROAD, NW, SUITE 100
KENNESAW, GEORGIA 30144 (770) 421-3400

amec foster wheeler

SOIL AND GROUNDWATER SAMPLING LOCATIONS

SCALE AS SHOWN
CONTRACT 6122-08-0154
DWG. NO. 1 REV PAGE NO.

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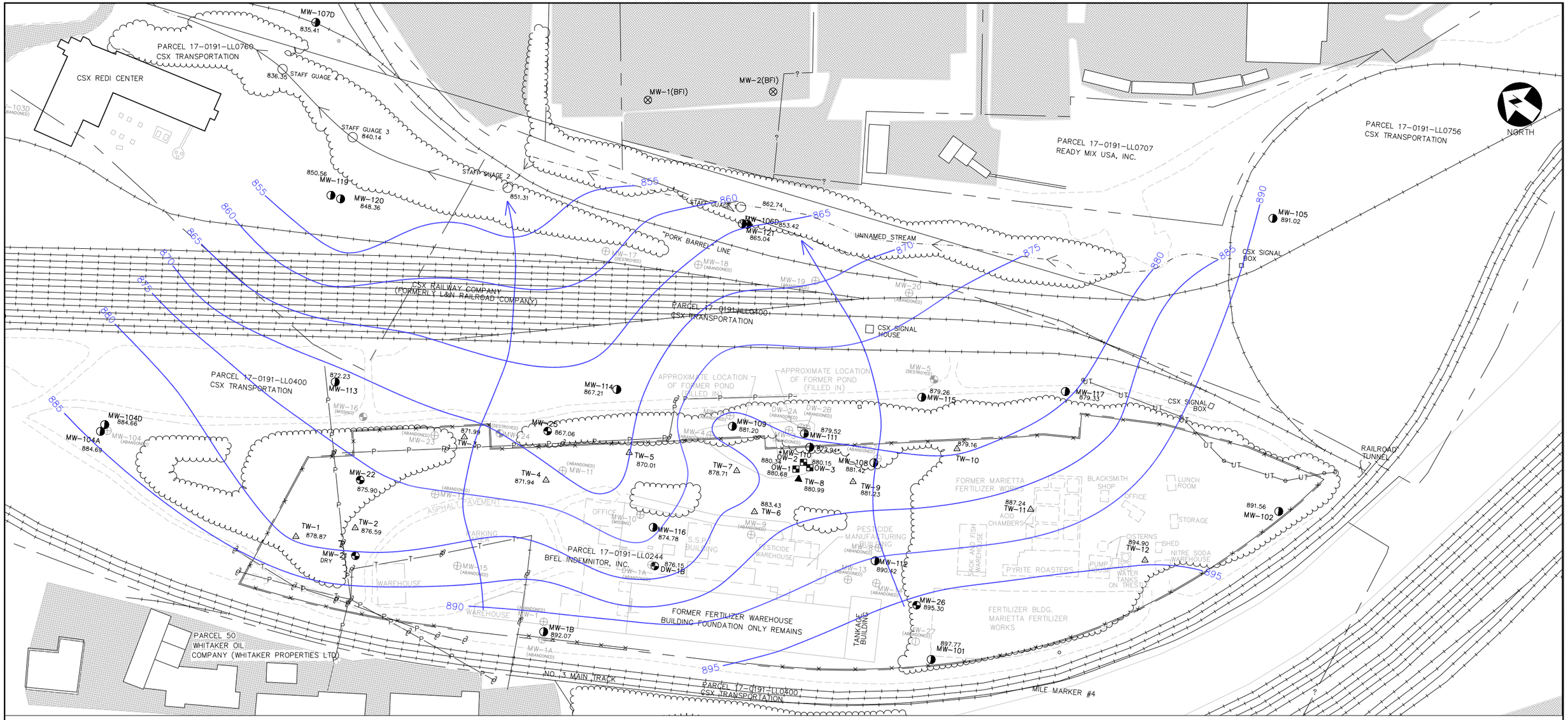

NOTES:

1. THE STRUCTURES ASSOCIATED WITH MARIETTA FERTILIZER WORKS ARE NO LONGER PRESENT. MARIETTA FERTILIZER WORKS WAS SHOWN TO BE PRESENT AND ACTIVE ON A 1911 SANBORN FIRE INSURANCE MAP. THE STRUCTURES FOR MARIETTA FERTILIZER WORKS WERE NOT PRESENT ON SANBORN FIRE INSURANCE MAPS DATED 1950 AND 1978.
2. SURVEYORS SURVEYED 4 CORNERS OF TANKAGE BUILDING AS REFERENCE TO TIE THE SITE PLAN IN W/ SURVEYED POINTS
3. ALL SOIL BORINGS AND MONITORING WELLS NEAR ACTIVE RAILROAD TRACKS MUST BE AT LEAST 25 FEET AWAY FROM THE TRACKS.

SOURCES:

1. T.M. GATES REPORTS 1986
2. NUS CORPORATION SITE INVESTIGATION REPORT, AUGUST 1988.
3. TOPOGRAPHIC SURVEY MAP PREPARED FOR BFEL BY TRAVIS PRUITT AND ASSOCIATES, DECEMBER 19, 1989.
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6. MARIETTA FERTILIZER WORKS STRUCTURES FROM SANBORN FIRE INSURANCE MAP 1911.
7. AMEC/MACTEC/LAW CSR AND VRP SOIL BORINGS AND MONITORING WELLS (2002-2012) AND SURFACE WATER LOCATIONS SURVEYED BY MACTEC ENGINEERING AND CONSULTING INC. AND AMEC
8. PROPERTY OWNERS SHOWN ARE BASED ON 1996 FULTON COUNTY TAX RECORDS
9. WHITAKER AND MARY L. McQUEEN PROPERTY BOUNDARIES WERE REVISED AND ARE APPROXIMATE AND ARE BASED ON FULTON COUNTY BOARD OF ASSESSORS RECORDS 2004-2005 AT www.fultonassessor.org

CADD NOTE: DRAWING XREFS ROTATED @ 0,0; 55° FROM SURVEY FILE COORDINATE POSITION.

LEGEND:

- MW-104 ◑ LAW/MACTEC/AMEC/ CSR AND VRP MONITORING WELL LOCATIONS (MW-1A, MW-1B, MW-101 TO MW-105, MW-106D, MW-107D, MW-108, MW-109, AND MW-110, MW-111 THROUGH MW-121 (FEBRUARY, JUNE, JULY, DECEMBER 1997, MAY 1998, JANUARY 2000, NOVEMBER 2002, AND AUGUST 2007, AND NOVEMBER-DECEMBER 2012, (MW-106 AND MW-107 WERE NOT INSTALLED)
- MW-10 ◔ T.M. GATES MONITORING WELL LOCATIONS (MW-1 TO MW-27, MW-7 WAS NOT INSTALLED) (AUGUST 1983, JANUARY 1984, JUNE 1985)
- DW-1B ◔ T.M. GATES DEEP MONITORING WELL LOCATIONS (DW-1A, DW-1B, DW-2A, DW-2B) (AUGUST 1983, FEBRUARY 1984)
- TW-10 △ TEMPORARY MONITORING WELL LOCATIONS (TW-1 THROUGH TW-12) (MAY 2012) AND (OW-1 THROUGH OW-3) (JANUARY 2013)
- MW-19 ⊕ MONITORING WELLS ABANDONED (MW-1, MW-1A, MW-2, MW-3, MW-4, MW-6, MW-8, MW-9, MW-11, MW-12, MW-13, MW-14, MW-15, MW-18, MW-19, MW-20, MW-23, MW-27, DW-1A, DW-2A, DW-2B, AND MW-104) (JUNE 1995, JUNE 1997, AUGUST 1998, JANUARY 2000, AUGUST 2007). MW-103A, MW-103D AND MW-118 ABANDONED BY CSX, FEBRUARY 2008.

- EXISTING STRUCTURE
- FORMER STRUCTURE
- TREE LINE
- STREAM
- STREAM GAUGE
- PROPERTY BOUNDARIES
- ABOVEGROUND POWER TRANSMISSION LINES
- BELOWGROUND FIBER OPTICS CABLE
- FENCE
- 890 POTENTIOMETRIC SURFACE CONTOUR (FEET, NGVD)
- INTERPRETED GROUND-WATER FLOW DIRECTION
- 866.05 GROUNDWATER ELEVATION (FEET, NGVD)
- * 860.92 GROUNDWATER ELEVATIONS IN WELLS NOT USED TO CALCULATE POTENTIOMETRIC SURFACE
- MW-1(BFI) ⊗ MONITORING WELLS INSTALLED FOR 1993 PHASE II INVESTIGATION CSX PROPERTY.

SCALE IN FEET
0 100 200

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DESIGNED	N. MCMILLAN
DRAWN	T. GLADSTONE
CHECKED	R. QUINN
IN CHARGE	G. WRENN
DATE	1/7/2015

FORMER ESTECH GENERAL CHEMICALS SITE

ATLANTA, GEORGIA

AMEC FOSTER WHEELER
ENVIRONMENT & INFRASTRUCTURE, INC.
1075 BIG SHANTY ROAD, NW, SUITE 100
KENNESAW, GEORGIA 30144 (770) 421-3400

amec foster wheeler

POTENTIOMETRIC SURFACE NOVEMBER 2015

SCALE	AS SHOWN
CONTRACT	6122-08-0154
DWG. NO.	FIG. 2
REV	
PAGE NO	

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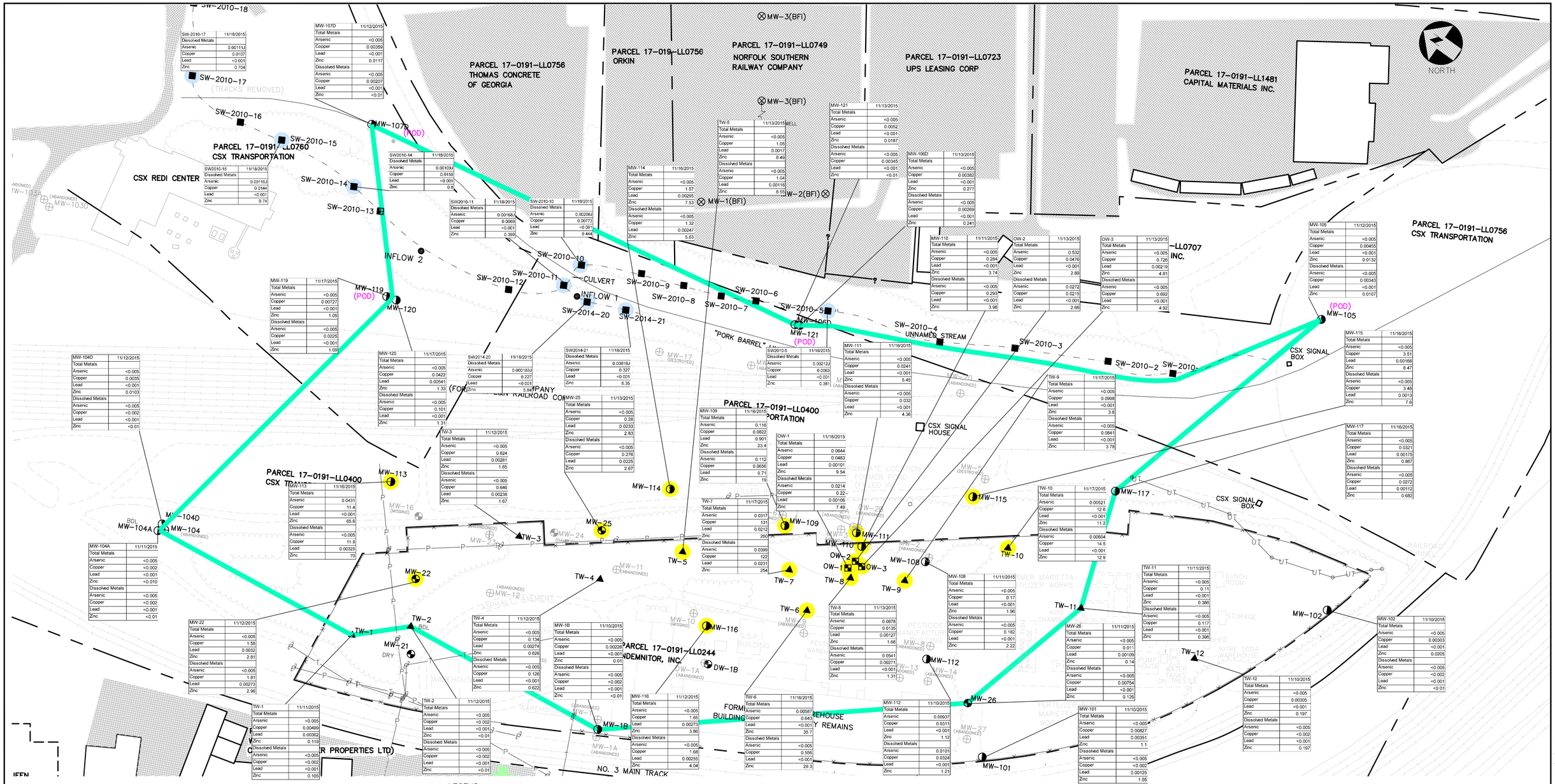

SW-2010-17	11/18/2015
Dissolved Metals	
Arsenic	0.001112
Copper	0.0127
Lead	<0.001
Zinc	0.704

SW2010-15	11/18/2015
Dissolved Metals	
Arsenic	0.00115J
Copper	0.0144
Lead	<0.001
Zinc	0.74

MW-107D	11/12/2015
Total Metals	
Arsenic	<0.005
Copper	0.00359
Lead	<0.001
Zinc	0.0117
Dissolved Metals	
Arsenic	<0.005
Copper	0.00207
Lead	<0.001
Zinc	<0.01

SW2010-14	11/18/2015
Dissolved Metals	
Arsenic	0.00109J
Copper	0.0159
Lead	<0.001
Zinc	0.9

SW2010-11	11/18/2015
Dissolved Metals	
Arsenic	0.00168J
Copper	0.0063
Lead	<0.001
Zinc	0.389

SW2010-10	11/18/2015
Dissolved Metals	
Arsenic	0.00206J
Copper	0.00773
Lead	<0.001
Zinc	0.444

MW-114	11/16/2015
Total Metals	
Arsenic	<0.005
Copper	1.57
Lead	0.00295
Zinc	7.53
Dissolved Metals	
Arsenic	<0.005
Copper	1.32
Lead	0.00247
Zinc	5.63

TW-5	11/13/2015 WELL
Total Metals	
Arsenic	<0.005
Copper	1.05
Lead	0.0017
Zinc	8.49
Dissolved Metals	
Arsenic	<0.005
Copper	1.04
Lead	0.00118
Zinc	8.55

MW-121	11/13/2015
Total Metals	
Arsenic	<0.005
Copper	0.0052
Lead	<0.001
Zinc	0.0187
Dissolved Metals	
Arsenic	<0.005
Copper	0.00345
Lead	<0.001
Zinc	<0.01

MW-106D	11/13/2015
Total Metals	
Arsenic	<0.005
Copper	0.00382
Lead	<0.001
Zinc	0.277
Dissolved Metals	
Arsenic	<0.005
Copper	0.00269
Lead	<0.001
Zinc	0.241

MW-110	11/11/2015
Total Metals	
Arsenic	<0.005
Copper	0.293
Lead	<0.001
Zinc	3.74
Dissolved Metals	
Arsenic	<0.005
Copper	0.293
Lead	<0.001
Zinc	3.96

OW-2	11/13/2015
Total Metals	
Arsenic	0.532
Copper	0.0476
Lead	<0.001
Zinc	2.89
Dissolved Metals	
Arsenic	0.0272
Copper	0.0215
Lead	<0.001
Zinc	2.66

OW-3	11/13/2015
Total Metals	
Arsenic	<0.005
Copper	0.726
Lead	0.00216
Zinc	4.81
Dissolved Metals	
Arsenic	<0.005
Copper	0.692
Lead	<0.001
Zinc	4.92

MW-105	11/12/2015
Total Metals	
Arsenic	<0.005
Copper	0.00455
Lead	<0.001
Zinc	0.0132
Dissolved Metals	
Arsenic	<0.005
Copper	0.00343
Lead	<0.001
Zinc	0.0107

MW-119	11/17/2015
Total Metals	
Arsenic	<0.005
Copper	0.00727
Lead	<0.001
Zinc	1.05
Dissolved Metals	
Arsenic	<0.005
Copper	0.0225
Lead	<0.001
Zinc	1.09

MW-104D	11/12/2015
Total Metals	
Arsenic	<0.005
Copper	0.0035
Lead	<0.001
Zinc	0.0103
Dissolved Metals	
Arsenic	<0.005
Copper	<0.002
Lead	<0.001
Zinc	<0.01

MW-120	11/17/2015
Total Metals	
Arsenic	<0.005
Copper	0.0422
Lead	0.00541
Zinc	1.33
Dissolved Metals	
Arsenic	<0.005
Copper	0.101
Lead	<0.001
Zinc	1.31

SW2014-20	11/18/2015
Dissolved Metals	
Arsenic	0.00018J
Copper	0.227
Lead	<0.001
Zinc	5.84

SW2014-21	11/18/2015
Dissolved Metals	
Arsenic	0.00018J
Copper	0.327
Lead	<0.001
Zinc	8.35

SW2010-5	11/18/2015
Dissolved Metals	
Arsenic	0.00212J
Copper	0.0063
Lead	<0.001
Zinc	0.381

MW-111	11/16/2015
Total Metals	
Arsenic	<0.005
Copper	0.0241
Lead	<0.001
Zinc	5.45
Dissolved Metals	
Arsenic	<0.005
Copper	0.032
Lead	<0.001
Zinc	4.36

TW-9	11/17/2015
Total Metals	
Arsenic	<0.005
Copper	0.0998
Lead	<0.001
Zinc	3.6
Dissolved Metals	
Arsenic	<0.005
Copper	0.0841
Lead	<0.001
Zinc	3.79

MW-115	11/16/2015
Total Metals	
Arsenic	<0.005
Copper	3.51
Lead	0.00168
Zinc	8.47
Dissolved Metals	
Arsenic	<0.005
Copper	3.48
Lead	0.0013
Zinc	7.6

MW-117	11/16/2015
Total Metals	
Arsenic	<0.005
Copper	0.0321
Lead	0.00175
Zinc	0.867
Dissolved Metals	
Arsenic	<0.005
Copper	0.0272
Lead	0.00112
Zinc	0.682

MW-109	11/16/2015
Total Metals	
Arsenic	0.116
Copper	0.0822
Lead	0.901
Zinc	23.4
Dissolved Metals	
Arsenic	0.112
Copper	0.0656
Lead	0.71
Zinc	19

OW-1	11/16/2015
Total Metals	
Arsenic	0.0644
Copper	0.0483
Lead	0.00101
Zinc	9.54
Dissolved Metals	
Arsenic	0.0214
Copper	0.22
Lead	0.00106
Zinc	7.49

TW-10	11/17/2015
Total Metals	
Arsenic	0.00521
Copper	12.6
Lead	<0.001
Zinc	11.2
Dissolved Metals	
Arsenic	0.00604
Copper	14.5
Lead	<0.001
Zinc	12.9

MW-108	11/11/2015
Total Metals	
Arsenic	<0.005
Copper	0.17
Lead	<0.001
Zinc	1.96
Dissolved Metals	
Arsenic	<0.005
Copper	0.182
Lead	<0.001
Zinc	2.22

TW-11	11/11/2015
Total Metals	
Arsenic	<0.005
Copper	0.11
Lead	<0.001
Zinc	0.386
Dissolved Metals	
Arsenic	<0.005
Copper	0.117
Lead	<0.001
Zinc	0.396

MW-104A	11/11/2015
Total Metals	
Arsenic	<0.005
Copper	<0.002
Lead	<0.001
Zinc	<0.010
Dissolved Metals	
Arsenic	<0.005
Copper	<0.002
Lead	<0.001
Zinc	<0.01

MW-113	11/16/2015
Total Metals	
Arsenic	0.0431
Copper	11.4
Lead	<0.001
Zinc	65.6
Dissolved Metals	
Arsenic	<0.005
Copper	11.9
Lead	0.00325
Zinc	70

TW-3	11/12/2015
Total Metals	
Arsenic	<0.005
Copper	0.624
Lead	0.00281
Zinc	1.65
Dissolved Metals	
Arsenic	<0.005
Copper	0.646
Lead	0.00238
Zinc	1.67

MW-25	11/13/2015
Total Metals	
Arsenic	<0.005
Copper	0.28
Lead	0.0233
Zinc	2.83
Dissolved Metals	
Arsenic	<0.005
Copper	0.276
Lead	0.0225
Zinc	2.67

TW-7	11/17/2015
Total Metals	
Arsenic	0.0317
Copper	131
Lead	0.0212
Zinc	260
Dissolved Metals	
Arsenic	0.0399
Copper	122
Lead	0.0231
Zinc	254

MW-22	11/12/2015
Total Metals	
Arsenic	<0.005
Copper	1.56
Lead	0.0032
Zinc	2.81
Dissolved Metals	
Arsenic	<0.005
Copper	1.81
Lead	0.00273
Zinc	2.96

TW-1	11/11/2015
Total Metals	
Arsenic	<0.005
Copper	0.00499
Lead	0.00302
Zinc	0.119
Dissolved Metals	
Arsenic	<0.005
Copper	<0.002
Lead	<0.001
Zinc	0.105

TW-2	11/12/2015
Total Metals	
Arsenic	<0.005
Copper	<0.002
Lead	<0.001
Zinc	<0.01
Dissolved Metals	
Arsenic	<0.005
Copper	<0.002
Lead	<0.001
Zinc	<0.01

TW-4	11/12/2015
Total Metals	
Arsenic	<0.005
Copper	0.134
Lead	0.00274
Zinc	0.626
Dissolved Metals	
Arsenic	<0.005
Copper	0.126
Lead	<0.001
Zinc	0.622

MW-1B	11/10/2015
Total Metals	
Arsenic	<0.005
Copper	0.00226
Lead	<0.001
Zinc	0.01
Dissolved Metals	
Arsenic	<0.005
Copper	<0.002
Lead	<0.001
Zinc	<0.01

MW-116	11/12/2015
Total Metals	
Arsenic	<0.005
Copper	1.65
Lead	0.00273
Zinc	3.86
Dissolved Metals	
Arsenic	<0.005
Copper	1.68
Lead	0.00255
Zinc	4.04

TW-6	11/16/2015
Total Metals	
Arsenic	0.00587
Copper	0.643
Lead	<0.001
Zinc	35.7
Dissolved Metals	
Arsenic	<0.005
Copper	0.556
Lead	<0.001
Zinc	29.3

MW-112	11/10/2015
Total Metals	
Arsenic	0.00937
Copper	0.0311
Lead	<0.001
Zinc	1.12
Dissolved Metals	
Arsenic	0.0101
Copper	0.0324
Lead	<0.001
Zinc	1.21

TW-8	11/13/2015
Total Metals	
Arsenic	0.0878
Copper	0.0135
Lead	0.00127
Zinc	1.68
Dissolved Metals	
Arsenic	0.0541
Copper	0.00271
Lead	<0.001
Zinc	1.31

MW-26	11/11/2015
Total Metals	
Arsenic	<0.005
Copper	0.011
Lead	0.00109
Zinc	0.14
Dissolved Metals	
Arsenic	<0.005
Copper	0.00754
Lead	<0.001
Zinc	0.126

MW-101	11/10/2015
Total Metals	
Arsenic	<0.005
Copper	0.00827
Lead	0.00351
Zinc	1.1
Dissolved Metals	
Arsenic	<0.005
Copper	<0.002
Lead	0.00125
Zinc	1.05

TW-12	11/10/2015
Total Metals	
Arsenic	<0.005
Copper	0.00305
Lead	<0.001
Zinc	0.197
Dissolved Metals	
Arsenic	<0.005
Copper	<0.002
Lead	<0.001
Zinc	0.197

MW-102	11/10/2015
Total Metals	
Arsenic	<0.005
Copper	0.00303
Lead	<0.001
Zinc	0.0205
Dissolved Metals	
Arsenic	<0.005
Copper	<0.002
Lead	<0.001
Zinc	<0.01

LEGEND:

LAW/MACTEC/AMEC CSR AND VRP MONITORING WELL LOCATIONS (MW–1A, MW–1B, MW–101 TO MW–105, MW–104A, MW–104D, MW–106D, MW–107D, MW–108, MW–109, AND MW–110, MW–111 THROUGH MW–121 (FEBRUARY, JUNE, JULY, DECEMBER 1997, MAY 1998, JANUARY 2000, NOVEMBER 2002, AUGUST 2007, AND NOVEMBER 2012) (MW–106 AND MW–107 WERE NOT INSTALLED)

MW–104 — T.M. GATES MONITORING WELL LOCATIONS (MW–1 TO MW–27, MW–7 WAS NOT INSTALLED) (AUGUST 1983, JANUARY 1984, JUNE 1985)

DW–1B — T.M. GATES DEEP MONITORING WELL LOCATIONS (DW–1A, DW–1B, DW–2A, DW–2B) (AUGUST 1983, FEBRUARY 1984)

MW–1 — MONITORING WELLS ABANDONED (MW–1, MW–1A, MW–2, MW–3, MW–4, MW–6, MW–8, MW–9, MW–11, MW–12, MW–13, MW–14, MW–15, MW–18, MW–19, MW–20, MW–23, MW–27, DW–1A, DW–2A, DW–2B, AND MW–104) (JUNE 1995, JUNE 1997, AUGUST 1998, JANUARY 2000, AND AUGUST 2007)
CSX ABANDONED WELLS MW–103A, MW–103D AND MW–118

TW–1 — TEMPORARY WELLS (MAY 2012)

INFLOW 1 — SEEP ALONG STREAM

SW–2010–1 — MACTEC/AMEC SURFACE WATER SAMPLING LOCATIONS (SW–2010–1 TO SW–2010–18, SW–2014–20 AND SW–2014–21)

MW–1(BFI) — APPROXIMATE LOCATION OF MONITORING WELLS INSTALLED FOR 1993 PHASE II INVESTIGATION.

(POD) — POINT OF DEMONSTRATION WELL

ARSENIC, LEAD, COPPER, AND ZINC IN GROUNDWATER ARE DELINEATED PER THE VRP DELINEATION CRITERIA 12–8–108(E) DEFAULT RESIDENTIAL CLEANUP STANDARDS (TYPE I RRS)

ARSENIC	0.01 MG/L
LEAD	0.015 MG/L
COPPER	1.3 MG/L
ZINC	2 MG/L

HORIZONTAL DELINEATION OF GROUND–WATER CONTAMINATION BASED ON TYPE I RRS

PROPERTY BOUNDARIES

ABOVEGROUND POWER TRANSMISSION LINES

BELOWGROUND FIBER OPTICS CABLE

FENCE

EXISTING STRUCTURE

FORMER STRUCTURE

TREE LINE

STREAM

NA — CONSTITUENT NOT ANALYZED

ALL CONCENTRATIONS EXPRESSED IN MILLIGRAMS PER LITER (mg/L)

GROUNDWATER CONCENTRATION IS GREATER THAN TYPE I RRS

SURFACE WATER CONCENTRATION IS GREATER THAN GEORGIA INSTREAM WATER QUALITY CRITERIA FOR AQUATIC RECEPTORS (COPPER OR ZINC)

OBSERVATION WELL FOR PILOT INJECTION STUDY

BDL — BELOW DETECTION LIMIT

SCALE IN FEET
0 100 200

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DRAWN	T. GLADSTONE
CHECKED	R. QUINN
IN CHARGE	G. WRENN
DATE	1/4/2015

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ATLANTA, GEORGIA

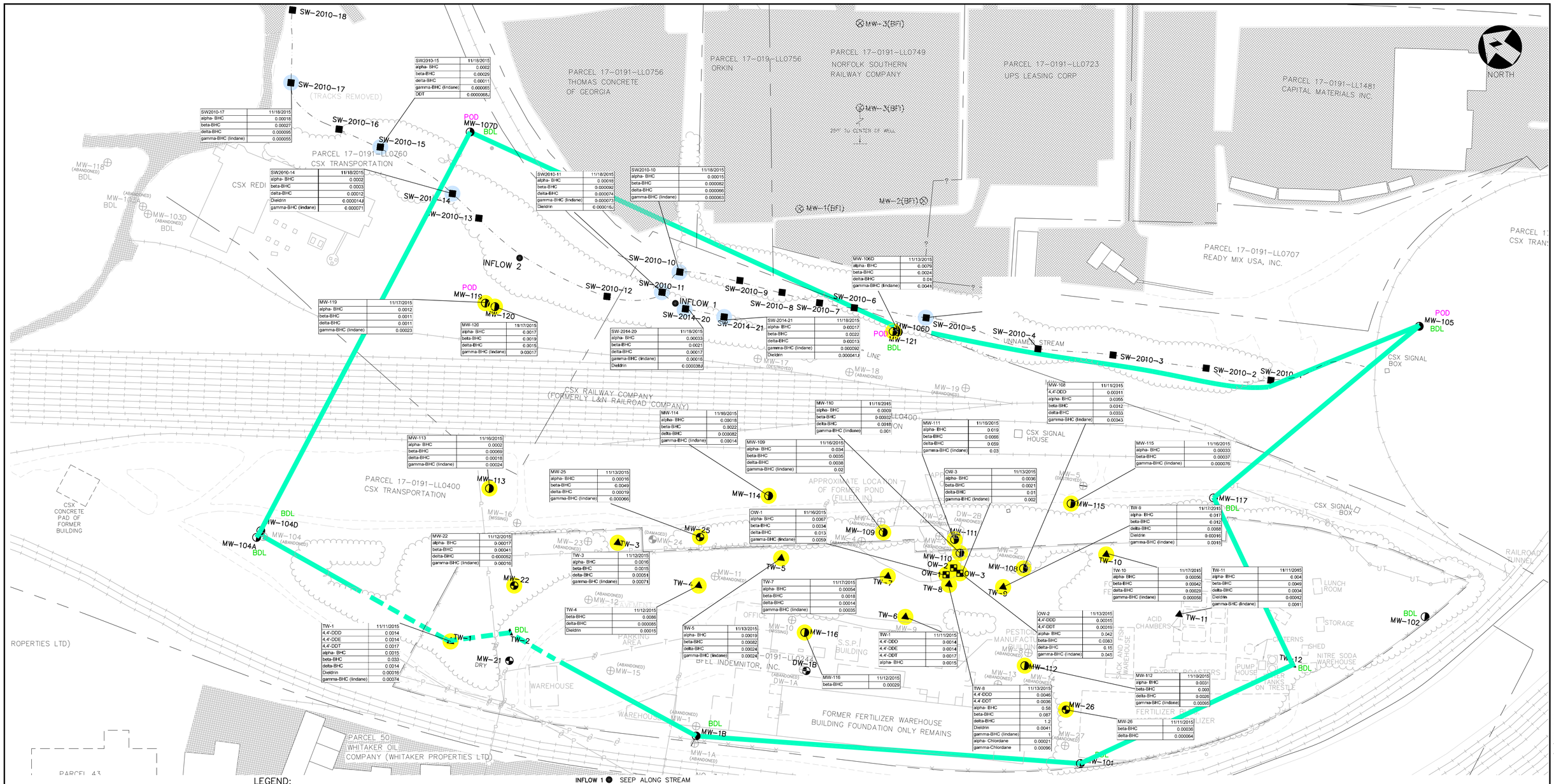
AMEC FOSTER WHEELER
ENVIRONMENT & INFRASTRUCTURE, INC.
1075 BIG SHANTY ROAD, NW, SUITE 100
KENNESAW, GEORGIA 30144 (770) 421–3400

amec foster wheeler

DISTRIBUTION AND DELINEATION OF ARSENIC, LEAD, COPPER AND ZINC DETECTED IN GROUND WATER

SCALE	AS SHOWN
CONTRACT	6122–08–0154
DWG. NO.	3
REV	
PAGE NO.	

J:\EFEL ATLANTA\DEC 2015\DELINEATION OF LEAD COPPER ZINC–R1.dwg – Layout1 02/04/2016 9:26am Tonya.gladstone



LEGEND:

- MW-104 ◑ — LAW/MACTEC/AMEC CSR AND VRP MONITORING WELL LOCATIONS (MW-1A, MW-1B, MW-101 TO MW-105, MW-104A, MW-104D, MW-106D, MW-107D, MW-108, MW-109, AND MW-110, MW-111 THROUGH MW-121 (FEBRUARY, JUNE, JULY, DECEMBER 1997, MAY 1998, JANUARY 2000, NOVEMBER 2002, AUGUST 2007, AND NOVEMBER 2012) (MW-106 AND MW-107 WERE NOT INSTALLED)
- MW-10 ◔ — T.M. GATES MONITORING WELL LOCATIONS (MW-1 TO MW-27, MW-7 WAS NOT INSTALLED) (AUGUST 1983, JANUARY 1984, JUNE 1985)
- DW-1B ◔ — T.M. GATES DEEP MONITORING WELL LOCATIONS (DW-1A, DW-1B, DW-2A, DW-2B) (AUGUST 1983, FEBRUARY 1984)
- MW-1 ⊕ — MONITORING WELLS ABANDONED (MW-1, MW-1A, MW-2, MW-3, MW-4, MW-6, MW-8, MW-9, MW-11, MW-12, MW-13, MW-14, MW-15, MW-18, MW-19, MW-20, MW-23, MW-27, DW-1A, DW-2A, DW-2B, AND MW-104) (JUNE 1995, JUNE 1997, AUGUST 1998, JANUARY 2000, AND AUGUST 2007)
  CSX ABANDONED WELLS MW-103A, MW-103D AND MW-118
- INFLOW 1 ● — SEEP ALONG STREAM
- SW-2010-1 ■ — MACTEC/AMEC SURFACE WATER SAMPLING LOCATIONS (SW-2010-1 TO SW-2010-18, SW-2014-20 AND SW-2014-21)
- MW-1(BFI) ⊗ — APPROXIMATE LOCATION OF MONITORING WELLS INSTALLED FOR 1993 DUE PHASE II INVESTIGATION.
- TW-1 ▲ — TEMPORARY WELLS (MAY 2012)
- POD — POINT OF DEMONSTRATION WELL
- BDL — BELOW DETECTION LIMIT
- PROPERTY BOUNDARIES
- ABOVEGROUND POWER TRANSMISSION LINES
- BELOWGROUND FIBER OPTICS CABLE
- FENCE
- EXISTING STRUCTURE
- FORMER STRUCTURE
- TREE LINE
- STREAM

PESTICIDES, IN GROUND WATER ARE DELINEATED PER THE VRP DELINEATION CRITERIA 12-8-108(E) DEFAULT RESIDENTIAL CLEANUP STANDARDS (TYPE I RRS).

- GROUNDWATER CONCENTRATION IS GREATER THAN TYPE I RRS
- SURFACE WATER CONCENTRATION IS GREATER THAN NATIONAL WATER QUALITY CRITERIA (HUMAN HEALTH) (ALPHA AND BETA BHC)

- HORIZONTAL DELINEATION OF GROUNDWATER CONTAMINATION BASED ON TYPE I RRS
- OBSERVATION WELL FOR PILOT INJECTION STUDY

ALL CONCENTRATIONS EXPRESSED IN MILLIGRAMS PER LITER (mg/L)

SCALE IN FEET
0 100 200

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DISTRIBUTION AND DELINEATION OF PESTICIDES DETECTED IN GROUND WATER

SCALE	AS SHOWN
CONTRACT	6122-08-0154
DWG. NO.	4
REV	
PAGE NO	

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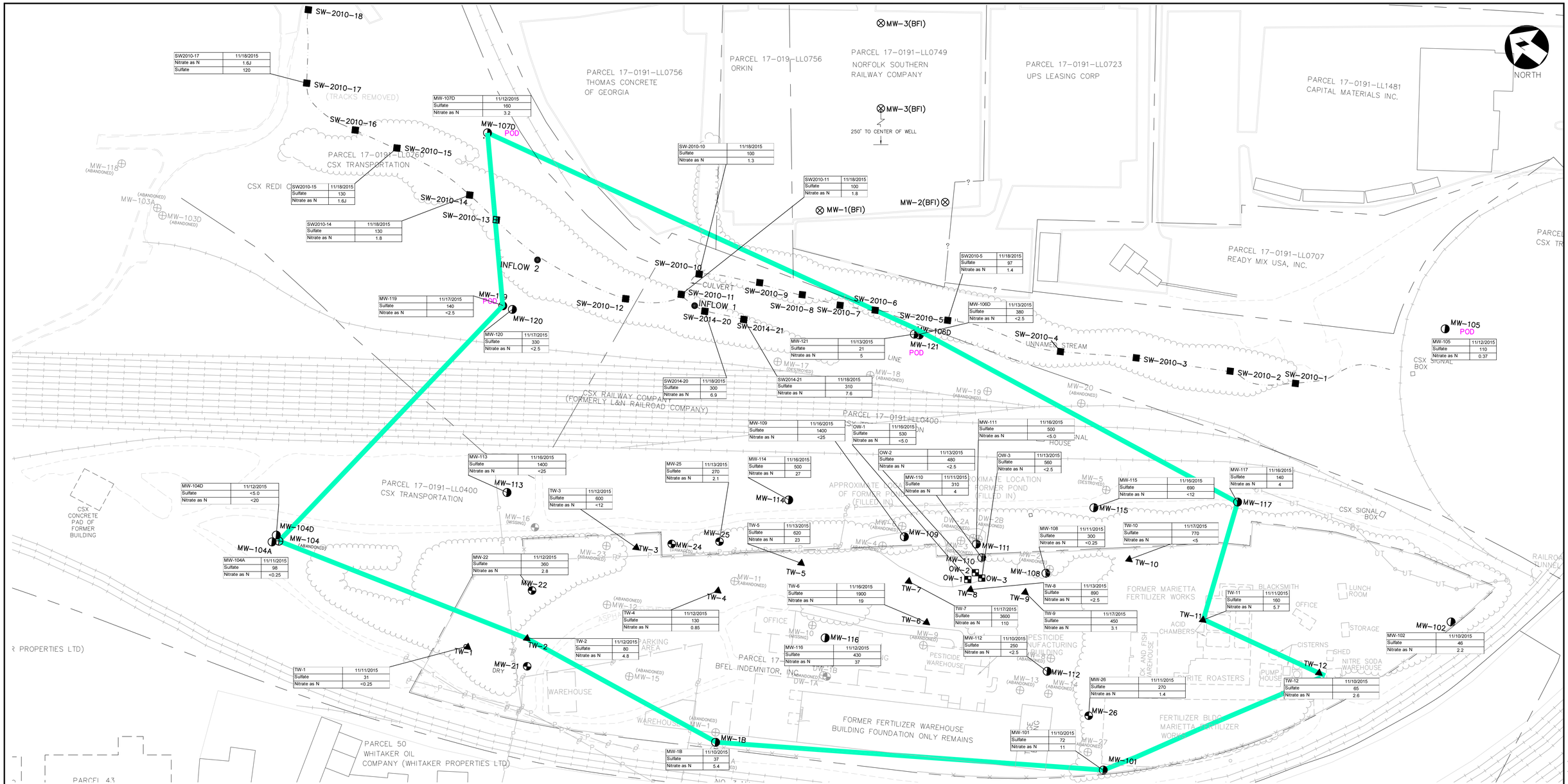

LEGEND:

- MW-104 ◑ LAW/MACTEC/AMEC CSR AND VRP MONITORING WELL LOCATIONS (MW-1A, MW-1B, MW-101 TO MW-105, MW-103D, MW-104A, MW-104D, MW-106D, MW-107D, MW-108, MW-109, AND MW-110, MW-111 THROUGH MW-121 (FEBRUARY, JUNE, JULY, DECEMBER 1997, MAY 1998, JANUARY 2000, NOVEMBER 2002, AUGUST 2007, AND NOVEMBER 2012) (MW-106 AND MW-107 WERE NOT INSTALLED)
- MW-10 ◔ T.M. GATES MONITORING WELL LOCATIONS (MW-1 TO MW-27, MW-7 WAS NOT INSTALLED) (AUGUST 1983, JANUARY 1984, JUNE 1985)
- DW-1B ◔ T.M. GATES DEEP MONITORING WELL LOCATIONS (DW-1A, DW-1B, DW-2A, DW-2B) (AUGUST 1983, FEBRUARY 1984)
- MW-1 ⊕ MONITORING WELLS ABANDONED (MW-1, MW-1A, MW-2, MW-3, MW-4, MW-6, MW-8, MW-9, MW-11, MW-12, MW-13, MW-14, MW-15, MW-18, MW-19, MW-20, MW-23, MW-27, DW-1A, DW-2A, DW-2B, AND MW-104) (JUNE 1995, JUNE 1997, AUGUST 1998, JANUARY 2000, AND AUGUST 2007) CSX ABANDONED WELLS, MW-103A, MW-103D AND MW-118
- TW-1 ▲ TEMPORARY WELLS (MAY 2012)
- INFLOW 1 ● SEEP ALONG STREAM
- OW-1 ▪ OBSERVATION WELL FOR PILOT INJECTION STUDY
- SW-2010-1 ■ MACTEC/AMEC SURFACE WATER SAMPLING LOCATIONS (SW-2010-1 TO SW-2010-18, SW-2014-20 AND SW-2014-21)
- MW-1(BFI) ⊗ APPROXIMATE LOCATION OF MONITORING WELLS INSTALLED FOR 1993 DUE PHASE II INVESTIGATION.

NITRATE AND SULFATE IN GROUNDWATER ARE DELINEATED PER THE VRP DELINEATION CRITERIA 12-8-108(E) DEFAULT RESIDENTIAL CLEANUP STANDARDS (TYPE I RRS)

NITRATE 10 MG/L
SULFATE 250 MG/L

POD POINT OF DEMONSTRATION WELL

HORIZONTAL DELINEATION OF GROUND-WATER CONTAMINATION BASED ON TYPE I RRS
PROPERTY BOUNDARIES
ABOVEGROUND POWER TRANSMISSION LINES
BELOWGROUND FIBER OPTICS CABLE
FENCE
EXISTING STRUCTURE
FORMER STRUCTURE
TREE LINE
STREAM

ALL CONCENTRATIONS EXPRESSED IN MILLIGRAMS PER LITER (mg/L)

SCALE IN FEET
0 100 200

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DRAWN	T. GLADSTONE
CHECKED	R. QUINN
IN CHARGE	G. WRENN
DATE	1/4/2016

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DISTRIBUTION AND DELINEATION OF NITRATE AND SULFATE IN GROUND WATER

SCALE	AS SHOWN
CONTRACT	6122-08-0154
DWG. NO.	5
REV	
PAGE NO.	

J:\BFEL ATLANTA\DEC 2015\DELINEATION OF NITRATE AND SULFATE.dwg — Layout1 02/04/2016 9:21am Tonya.gladstone

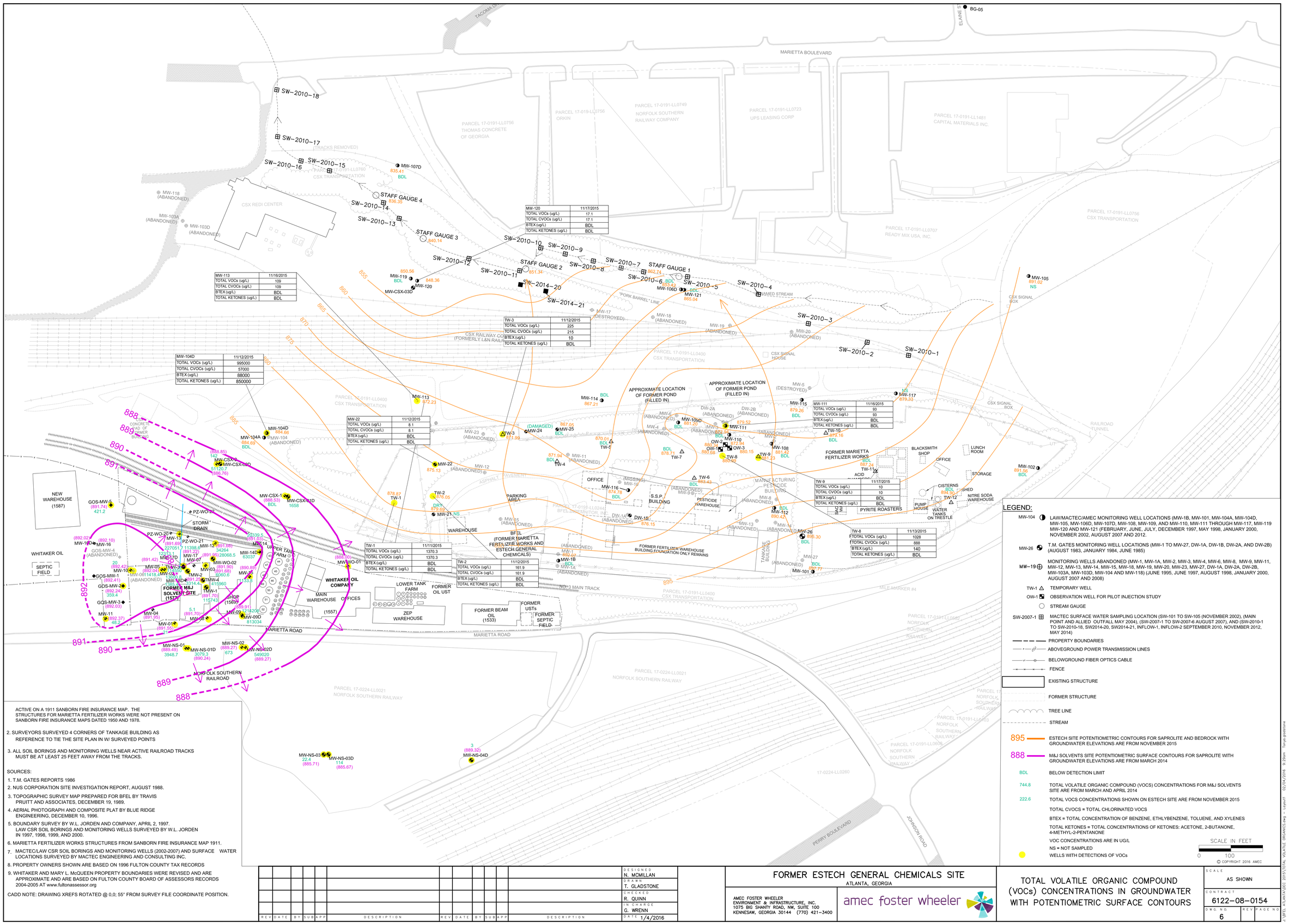
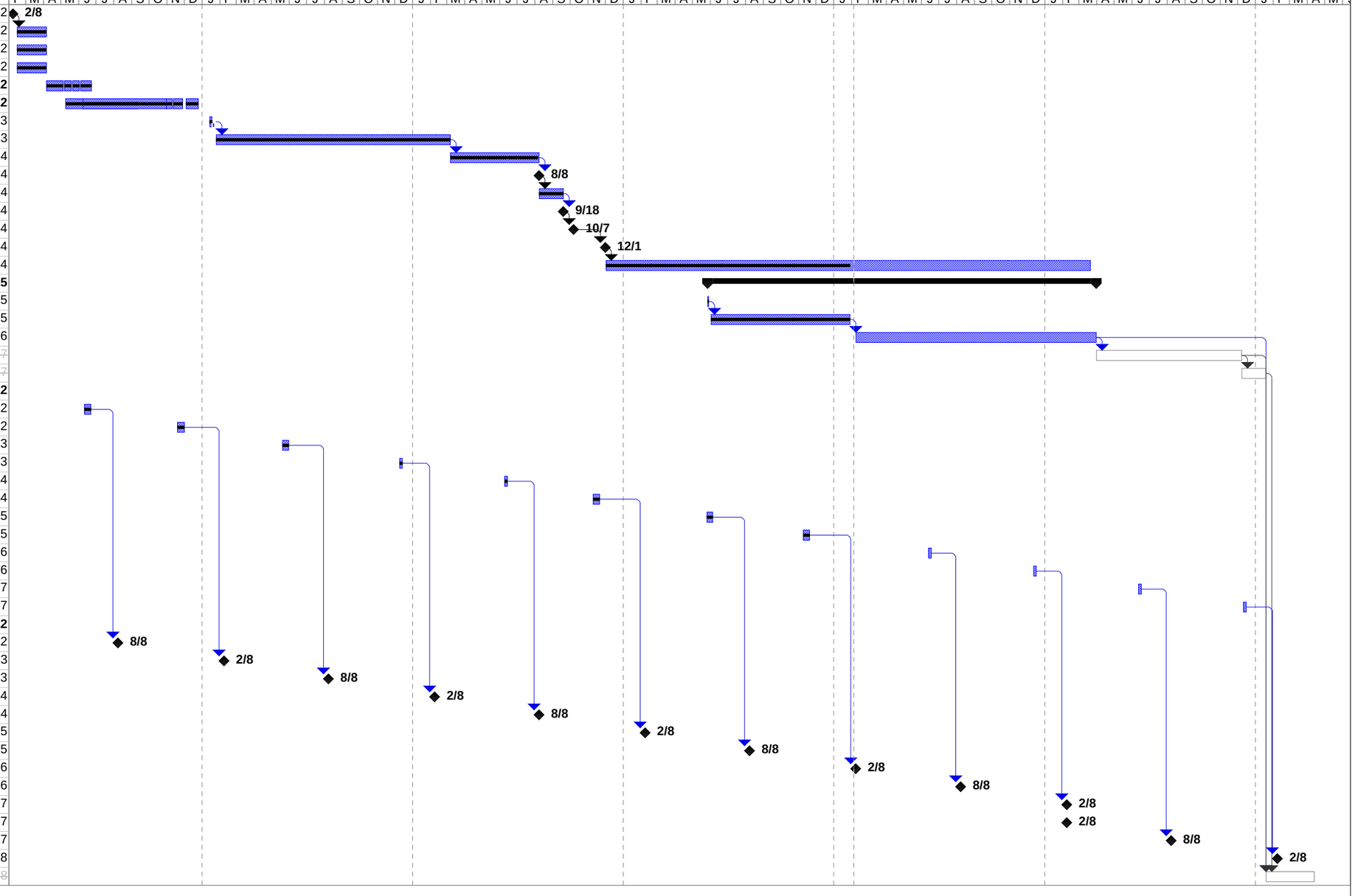

MARIETTA BOULEVARD
TACOMA DR
ELAINE ST
BG-05
PARCEL 17-0191-LL0756
THOMAS CONCRETE
OF GEORGIA
PARCEL 17-019-LL0756
ORKIN
PARCEL 17-0191-LL0749
NORFOLK SOUTHERN
RAILWAY COMPANY
PARCEL 17-0191-LL0723
UPS LEASING CORP
PARCEL 17-0191-LL1481
CAPITAL MATERIALS INC.
PARCEL 17-0191-LL0756
CSX TRANSPORTATION
PARCEL 17-0191-LL0707
READY MIX USA, INC.
PARCEL 17-0191-LL0760
CSX TRANSPORTATION
(TRACKS REMOVED)
CSX REDI CENTER
SW-2010-18
SW-2010-17
SW-2010-16
SW-2010-15
SW-2010-14
SW-2010-13
SW-2010-12
SW-2010-11
SW-2010-10
SW-2010-9
SW-2010-8
SW-2010-7
SW-2010-6
SW-2010-5
SW-2010-4
SW-2010-3
SW-2010-2
SW-2010-1
SW-2014-20
SW-2014-21
STAFF GAUGE 4
STAFF GAUGE 3
STAFF GAUGE 2
STAFF GAUGE 1
MW-107D
839.41
BDL
MW-118
(ABANDONED)
MW-103A
(ABANDONED)
MW-103D
(ABANDONED)
MW-120
11/17/2015
TOTAL VOCs (ug/L) 17.1
TOTAL CVOCs (ug/L) 17.1
BTEX (ug/L) BDL
TOTAL KETONES (ug/L) BDL
MW-113
11/16/2015
TOTAL VOCs (ug/L) 109
TOTAL CVOCs (ug/L) 109
BTEX (ug/L) BDL
TOTAL KETONES (ug/L) BDL
MW-119
BDL
MW-120
MW-CSX-03D
850.56
848.36
MW-106D
BDL
MW-121
886.04
"PORK BARREL" LINE
NAMED STREAM
MW-105
891.02
NS
CSX SIGNAL BOX
TW-3
11/12/2015
TOTAL VOCs (ug/L) 225
TOTAL CVOCs (ug/L) 215
BTEX (ug/L) 10
TOTAL KETONES (ug/L) BDL
CSX RAILWAY CO
(FORMERLY L&N RAILR
MW-17
(DESTROYED)
MW-18
(ABANDONED)
MW-19
(ABANDONED)
MW-20
(ABANDONED)
PARCEL 17-0191-LL0400
CSX TRANSPORTATION
CSX SIGNAL HOUSE
MW-104D
11/12/2015
TOTAL VOCs (ug/L) 995000
TOTAL CVOCs (ug/L) 57000
BTEX (ug/L) 88000
TOTAL KETONES (ug/L) 850000
MW-104D
884.66
MW-104A
884.69
BDL
MW-104
(ABANDONED)
MW-113
872.23
MW-22
11/12/2015
TOTAL VOCs (ug/L) 8.1
TOTAL CVOCs (ug/L) 8.1
BTEX (ug/L) BDL
TOTAL KETONES (ug/L) BDL
MW-114
BDL
867.21
APPROXIMATE LOCATION
OF FORMER POND
(FILLED IN)
APPROXIMATE LOCATION
OF FORMER POND
(FILLED IN)
MW-115
879.26
BDL
MW-117
NS
879.33
MW-111
11/16/2015
TOTAL VOCs (ug/L) 93
TOTAL CVOCs (ug/L) 93
BTEX (ug/L) BDL
TOTAL KETONES (ug/L) BDL
CSX SIGNAL BOX
RAILROAD TUNNEL
TW-10
873.16
BDL
MW-5
(DESTROYED)
DW-2A
(ABANDONED)
DW-2B
(ABANDONED)
MW-6
(ABANDONED)
MW-109D
881.20
BDL
MW-5
(ABANDONED)
879.52
BDL
MW-111
MW-4
(ABANDONED)
MW-2
(ABANDONED)
MW-23
(ABANDONED)
MW-3
871.99
(DAMAGED)
MW-24
867.05
BDL
MW-25
BDL
TW-3
871.99
MW-22
875.13
MW-12
(ABANDONED)
ASPHALT PAVEMENT
OFFICE
(MISSING)
MW-10
MW-116
874.78
BDL
TW-5
870.01
BDL
MW-110
871.94
BDL
OW-2
880.66
OW-1
880.66
OW-3
880.15
TW-8
880.40
TW-9
881.23
MW-108
881.82
BDL
MW-2
BDL
TW-4
871.94
BDL
MW-11
(ABANDONED)
TW-7
878.71
BDL
TW-6
883.43
BDL
TW-2
876.05
DRY
879.69
TW-1
878.87
MW-21
NS
PARKING
AREA
S.S.P.
BUILDING
PESTICIDE
WAREHOUSE
MANUFACTURING
PESTICIDE
BUILDING
MW-8
(ABANDONED)
MW-9
(ABANDONED)
MW-14
(ABANDONED)
MW-13
(ABANDONED)
MW-12
(ABANDONED)
MW-15
(ABANDONED)
DW-1A
(ABANDONED)
DW-1B
876.15
PARCEL 17-0191-LL0244
BFEL INVESTMENTS INC.
WAREHOUSE
BFEL
(FORMER MARIETTA
FERTILIZER WORKS AND
ESTECH GENERAL
CHEMICALS)
FORMER FERTILIZER WAREHOUSE
BUILDING FOUNDATION ONLY REMAINS
TANKAGE BUILDING
MW-1
(ABANDONED)
MW-1B
BDL
MW-1A
BDL
MW-26
895.30
BDL
MW-27
BDL
890.77
MW-101
FORMER MARIETTA
FERTILIZER WORKS
BDL
887.24
TW-11
ACID
TW-9
11/17/2015
TOTAL VOCs (ug/L) 10
TOTAL CVOCs (ug/L) 10
BTEX (ug/L) BDL
TOTAL KETONES (ug/L) BDL
PYRITE ROASTERS
TW-8
11/13/2015
TOTAL VOCs (ug/L) 1028
TOTAL CVOCs (ug/L) 888
BTEX (ug/L) 140
TOTAL KETONES (ug/L) BDL
BLACKSMITH
SHOP
OFFICE
LUNCH
ROOM
STORAGE
CISTERNS
BDL
894.06
SHED
TW-12
NITRE SODA
WAREHOUSE
PUMP
HOUSE
WATER
TANKS
ON TRESTLE
MW-102
891.50
BDL

FIGURE 7 - SCHEDULE FOR IMPLEMENTATION OF VOLUNTARY REMEDIATON PLAN
FORMER ESTECH, ATLANTA, GA

ID	Task Name	Start
1	EPD approves VRP Application and Remediation Plan	Wed 2/8/12
2	Prepare/File/Submit Affidavit to BFEL Property Deed	Wed 2/15/12
3	Prepare/Submit Financial Assurance for VRP	Wed 2/15/12
4	Prepare/Submit Updated VRP Implementation Schedule	Wed 2/15/12
5	**Copper/Zinc Source ID & Soil Inv on BFEL Property**	**Fri 4/6/12**
10	**Soil/GW Inv on CSX Property**	**Wed 5/9/12**
16	Groundwater EHC-M Injection Pilot Test - BFEL Property	Mon 1/14/13
17	Pilot Test Performance Monitoring	Fri 1/25/13
18	Re-Evaluate Remediation Alternatives	Fri 3/7/14
19	Submit Revised Remediation Plan	Fri 8/8/14
20	EPD Review Revised Remediation Plan	Fri 8/8/14
21	BFEL/EPD Site Review Meeting	Thu 9/18/14
22	EPD Comment Letter (Oct. 7, 2014)	Tue 10/7/14
23	EPD Comment Letter (Dec. 1, 2014)	Mon 12/1/14
24	Evaluate Up-Gradient VOC Impact to BFEL Property	Tue 12/2/14
25	**Remediation Implementation**	**Wed 5/27/15**
26	Collect Treatability Study Samples	Wed 5/27/15
27	Data Analysis	Tue 6/2/15
28	Surficial Limestone Implementation/Evaluation	Mon 2/8/16
29	~~Soil/Groundwater Remedy Implementation~~	~~Fri 3/31/17~~
30	~~Install Fencing / Waste Disposal~~	~~Fri 12/8/17~~
31	**Semi-Annual GW/SW Sampling**	**Mon 6/11/12**
32	Semi-Annual Sampling Event 1	Mon 6/11/12
33	Semi-Annual Sampling Event 2	Mon 11/19/12
34	Semi-Annual Sampling Event 3	Mon 5/20/13
35	Semi-Annual Sampling Event 4	Mon 12/9/13
36	Semi-Annual Sampling Event 5	Mon 6/9/14
37	Semi-Annual Sampling Event 6	Mon 11/10/14
38	Semi-Annual Sampling Event 7	Tue 5/26/15
39	Semi-Annual Sampling Event 8	Mon 11/9/15
40	Semi-Annual Sampling Event 9	Mon 6/13/16
41	Semi-Annual Sampling Event 10	Mon 12/12/16
42	Semi-Annual GW/SW Sampling 11	Mon 6/12/17
43	Semi-Annual GW/SW Sampling 12	Mon 12/11/17
44	**Submit Semi-Annual Status Report**	**Wed 8/8/12**
45	Submit Semi-Annual Status Report 1	Wed 8/8/12
46	Submit Semi-Annual Status Report 2	Fri 2/8/13
47	Submit Semi-Annual Status Report 3	Thu 8/8/13
48	Submit Semi-Annual Status Report 4	Sat 2/8/14
49	Submit Semi-Annual Status Report 5	Fri 8/8/14
50	Submit Semi-Annual Status Report 6	Sun 2/8/15
51	Submit Semi-Annual Status Report 7	Sat 8/8/15
52	Submit Semi-Annual Status Report 8	Mon 2/8/16
53	Submit Semi-Annual Status Report 9	Mon 8/8/16
54	Submit Semi-Annual Status Report 10	Wed 2/8/17
55	Submit Semi-Annual Status Report 10	Wed 2/8/17
56	Submit Semi-Annual Status Report 11	Tue 8/8/17
57	Submit Semi-Annual Status Report 12	Thu 2/8/18
58	~~Submit Final Compliance Status Report~~	~~Fri 1/19/18~~



Project: BFEL Atlanta VRP Schedule
Date: Fri 2/5/16

Task		Project Summary		Inactive Summary		Manual Summary		External Milestone			
Split		External Tasks		Manual Task		Start-only		Progress			
Milestone		External Milestone		Duration-only		Finish-only		Deadline			
Summary		Inactive Milestone		Manual Summary Rollup		External Tasks					

APPENDIX A

LABORATORY REPORTS AND FIELD SAMPLING FORMS FOR NOVEMBER 2015 GROUNDWATER SAMPLING EVENT

WATER LABORATORY REPORTS

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 18, 2015

Rhonda Quinn
AMEC E&I, Inc. -Kennesaw
1075 Big Shanty Rd NW
Kennesaw GA 30144

TEL: (770) 421-3400
FAX: (770) 421-3486

RE: BFEL-Atlanta

Dear Rhonda Quinn: Order No: 1511963

Analytical Environmental Services, Inc. received 8 samples on 11/10/2015 5:20:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' 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 09/01/17.

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.

Ioana Pacurar

Ioana Pacurar
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: 151963

Date: 11/10/15 Page 1 of 1

COMPANY: Amec Foster Wheeler
ADDRESS: 1075 Big Shanty Rd Ste 100 Kennesaw, GA 30144
PHONE: 770-421-3400
FAX:
SAMPLED BY: D Howard/M Bowen/E Guillen
SIGNATURE: Daniel Howard

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes) H&I	I	N	I	I	No # of Containers
1	TB-01	11/10/15	1100	X		W	2					2
2	EB-01		1120	X		W	2	2	1		1	6
3	EB-02		1130	X		W	2	2	1		1	6
4	MW-101		1300	X		GW	2	2	1	1	1	7
5	TW-12		1540	X		GW	2	2	1	1	1	7
6	MW-102		1615	X		GW	2	2	1	1	1	7
7	MW-1B		1415	X		GW	2	2	1	1	1	7
8	MW-112		1555	X		GW	2	2	1	1	1	7
9	Temp Blanks											
10												
11												
12												
13												
14												

ANALYSIS REQUESTED *
5 site VOCs 8260
PESTA 8081A
Total Metals 6020
Diss Metals 6020
NO3,NO4 9056

REMARKS

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

RELINQUISHED BY / DATE/TIME
1: Matt Bowen 11/10/15 17:20
2:
3:

RECEIVED BY / DATE/TIME
1: 11/10/15 5:20 P
2:
3:

PROJECT INFORMATION
PROJECT NAME: BFEL Atlanta
PROJECT #: 6122080154.18
SITE ADDRESS: 1525 Pine St NW Atlanta, GA
SEND REPORT TO: Rhonda Quinn
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers

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): GA
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:
Metal list: As, Pb, Cu, Zn
* Dissolved metals will be filtered by Lab

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

Client: AMEC E&I, Inc. -Kennesaw
Project: BFEL-Atlanta
Lab ID: 1511963

Case Narrative

IC Analysis by Method 9056A:

Due to sample matrix, sample 1511963-008D required a dilution during preparation and/or analysis resulting in elevated reporting limits for Nitrate.

Analytical Environmental Services, Inc **Date:** 18-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-01
Project Name:	BFEL-Atlanta	**Collection Date:**	11/10/2015 11:00:00 AM
Lab ID:	1511963-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
1,4-Dioxane	BRL	150		ug/L	215938	1	11/15/2015 19:27	NP
2-Butanone	BRL	50		ug/L	215938	1	11/15/2015 19:27	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215938	1	11/15/2015 19:27	NP
Acetone	BRL	50		ug/L	215938	1	11/15/2015 19:27	NP
Benzene	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
Carbon disulfide	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
Carbon tetrachloride	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
Chlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
Chloroethane	BRL	10		ug/L	215938	1	11/15/2015 19:27	NP
Chloroform	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
Chloromethane	BRL	10		ug/L	215938	1	11/15/2015 19:27	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
Cyclohexane	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
Ethylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
Isobutyl Alcohol	BRL	200		ug/L	215938	1	11/15/2015 19:27	NP
Isopropylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
Methylene chloride	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
Naphthalene	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
Styrene	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
Tetrachloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
Tetrahydrofuran	BRL	10		ug/L	215938	1	11/15/2015 19:27	NP
Toluene	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
Trichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
Vinyl chloride	BRL	2.0		ug/L	215938	1	11/15/2015 19:27	NP
Xylenes, Total	BRL	5.0		ug/L	215938	1	11/15/2015 19:27	NP
Surr: 4-Bromofluorobenzene	97.8	70.7-125		%REC	215938	1	11/15/2015 19:27	NP
Surr: Dibromofluoromethane	104	82.2-120		%REC	215938	1	11/15/2015 19:27	NP
Surr: Toluene-d8	97.8	81.8-120		%REC	215938	1	11/15/2015 19:27	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 18-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	EB-01
Project Name:	BFEL-Atlanta	**Collection Date:**	11/10/2015 11:20:00 AM
Lab ID:	1511963-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
1,4-Dioxane	BRL	150		ug/L	215938	1	11/15/2015 19:51	NP
2-Butanone	BRL	50		ug/L	215938	1	11/15/2015 19:51	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215938	1	11/15/2015 19:51	NP
Acetone	BRL	50		ug/L	215938	1	11/15/2015 19:51	NP
Benzene	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
Carbon disulfide	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
Carbon tetrachloride	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
Chlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
Chloroethane	BRL	10		ug/L	215938	1	11/15/2015 19:51	NP
Chloroform	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
Chloromethane	BRL	10		ug/L	215938	1	11/15/2015 19:51	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
Cyclohexane	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
Ethylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
Isobutyl Alcohol	BRL	200		ug/L	215938	1	11/15/2015 19:51	NP
Isopropylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
Methylene chloride	11	5.0		ug/L	215938	1	11/15/2015 19:51	NP
Naphthalene	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
Styrene	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
Tetrachloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
Tetrahydrofuran	BRL	10		ug/L	215938	1	11/15/2015 19:51	NP
Toluene	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
Trichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
Vinyl chloride	BRL	2.0		ug/L	215938	1	11/15/2015 19:51	NP
Xylenes, Total	BRL	5.0		ug/L	215938	1	11/15/2015 19:51	NP
Surr: 4-Bromofluorobenzene	83.9	70.7-125		%REC	215938	1	11/15/2015 19:51	NP
Surr: Dibromofluoromethane	95.6	82.2-120		%REC	215938	1	11/15/2015 19:51	NP
Surr: Toluene-d8	86.5	81.8-120		%REC	215938	1	11/15/2015 19:51	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

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:** 18-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	EB-01
Project Name:	BFEL-Atlanta	**Collection Date:**	11/10/2015 11:20:00 AM
Lab ID:	1511963-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	BRL	5.00		ug/L	215742	1	11/13/2015 00:11	JS
Copper	3.52	2.00		ug/L	215742	1	11/13/2015 00:11	JS
Lead	BRL	1.00		ug/L	215742	1	11/13/2015 00:11	JS
Zinc	11.1	10.0		ug/L	215742	1	11/13/2015 00:11	JS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R304445	1	11/11/2015 12:17	JW
Sulfate	BRL	1.0		mg/L	R304445	1	11/11/2015 12:17	JW
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**			
4,4´-DDD	BRL	0.10		ug/L	215848	1	11/13/2015 20:12	SH
4,4´-DDE	BRL	0.10		ug/L	215848	1	11/13/2015 20:12	SH
4,4´-DDT	BRL	0.10		ug/L	215848	1	11/13/2015 20:12	SH
alpha-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 20:12	SH
alpha-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 20:12	SH
beta-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 20:12	SH
delta-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 20:12	SH
Dieldrin	BRL	0.10		ug/L	215848	1	11/13/2015 20:12	SH
gamma-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 20:12	SH
gamma-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 20:12	SH
Heptachlor	BRL	0.050		ug/L	215848	1	11/13/2015 20:12	SH
Methoxychlor	BRL	0.50		ug/L	215848	1	11/13/2015 20:12	SH
Toxaphene	BRL	5.0		ug/L	215848	1	11/13/2015 20:12	SH
Surr: Decachlorobiphenyl	47.1	14.5-127		%REC	215848	1	11/13/2015 20:12	SH
Surr: Tetrachloro-m-xylene	83.1	20.9-122		%REC	215848	1	11/13/2015 20:12	SH

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:** 18-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	EB-02
Project Name:	BFEL-Atlanta	**Collection Date:**	11/10/2015 11:30:00 AM
Lab ID:	1511963-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
1,4-Dioxane	BRL	150		ug/L	215938	1	11/15/2015 20:15	NP
2-Butanone	BRL	50		ug/L	215938	1	11/15/2015 20:15	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215938	1	11/15/2015 20:15	NP
Acetone	BRL	50		ug/L	215938	1	11/15/2015 20:15	NP
Benzene	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
Carbon disulfide	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
Carbon tetrachloride	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
Chlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
Chloroethane	BRL	10		ug/L	215938	1	11/15/2015 20:15	NP
Chloroform	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
Chloromethane	BRL	10		ug/L	215938	1	11/15/2015 20:15	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
Cyclohexane	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
Ethylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
Isobutyl Alcohol	BRL	200		ug/L	215938	1	11/15/2015 20:15	NP
Isopropylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
Methylene chloride	11	5.0		ug/L	215938	1	11/15/2015 20:15	NP
Naphthalene	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
Styrene	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
Tetrachloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
Tetrahydrofuran	BRL	10		ug/L	215938	1	11/15/2015 20:15	NP
Toluene	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
Trichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
Vinyl chloride	BRL	2.0		ug/L	215938	1	11/15/2015 20:15	NP
Xylenes, Total	BRL	5.0		ug/L	215938	1	11/15/2015 20:15	NP
Surr: 4-Bromofluorobenzene	88.8	70.7-125		%REC	215938	1	11/15/2015 20:15	NP
Surr: Dibromofluoromethane	102	82.2-120		%REC	215938	1	11/15/2015 20:15	NP
Surr: Toluene-d8	97.2	81.8-120		%REC	215938	1	11/15/2015 20:15	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 18-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	EB-02
Project Name:	BFEL-Atlanta	**Collection Date:**	11/10/2015 11:30:00 AM
Lab ID:	1511963-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	BRL	5.00		ug/L	215742	1	11/13/2015 00:17	JS
Copper	BRL	2.00		ug/L	215742	1	11/13/2015 00:17	JS
Lead	BRL	1.00		ug/L	215742	1	11/13/2015 00:17	JS
Zinc	BRL	10.0		ug/L	215742	1	11/13/2015 00:17	JS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R304445	1	11/11/2015 12:33	JW
Sulfate	BRL	1.0		mg/L	R304445	1	11/11/2015 12:33	JW
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**			
4,4´-DDD	BRL	0.10		ug/L	215848	1	11/13/2015 20:30	SH
4,4´-DDE	BRL	0.10		ug/L	215848	1	11/13/2015 20:30	SH
4,4´-DDT	BRL	0.10		ug/L	215848	1	11/13/2015 20:30	SH
alpha-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 20:30	SH
alpha-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 20:30	SH
beta-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 20:30	SH
delta-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 20:30	SH
Dieldrin	BRL	0.10		ug/L	215848	1	11/13/2015 20:30	SH
gamma-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 20:30	SH
gamma-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 20:30	SH
Heptachlor	BRL	0.050		ug/L	215848	1	11/13/2015 20:30	SH
Methoxychlor	BRL	0.50		ug/L	215848	1	11/13/2015 20:30	SH
Toxaphene	BRL	5.0		ug/L	215848	1	11/13/2015 20:30	SH
Surr: Decachlorobiphenyl	79.3	14.5-127		%REC	215848	1	11/13/2015 20:30	SH
Surr: Tetrachloro-m-xylene	76.7	20.9-122		%REC	215848	1	11/13/2015 20:30	SH

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:** 18-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-101
Project Name:	BFEL-Atlanta	**Collection Date:**	11/10/2015 1:00:00 PM
Lab ID:	1511963-004	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
1,4-Dioxane	BRL	150		ug/L	215938	1	11/15/2015 20:39	NP
2-Butanone	BRL	50		ug/L	215938	1	11/15/2015 20:39	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215938	1	11/15/2015 20:39	NP
Acetone	BRL	50		ug/L	215938	1	11/15/2015 20:39	NP
Benzene	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
Carbon disulfide	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
Carbon tetrachloride	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
Chlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
Chloroethane	BRL	10		ug/L	215938	1	11/15/2015 20:39	NP
Chloroform	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
Chloromethane	BRL	10		ug/L	215938	1	11/15/2015 20:39	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
Cyclohexane	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
Ethylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
Isobutyl Alcohol	BRL	200		ug/L	215938	1	11/15/2015 20:39	NP
Isopropylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
Methylene chloride	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
Naphthalene	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
Styrene	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
Tetrachloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
Tetrahydrofuran	BRL	10		ug/L	215938	1	11/15/2015 20:39	NP
Toluene	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
Trichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
Vinyl chloride	BRL	2.0		ug/L	215938	1	11/15/2015 20:39	NP
Xylenes, Total	BRL	5.0		ug/L	215938	1	11/15/2015 20:39	NP
Surr: 4-Bromofluorobenzene	91.7	70.7-125		%REC	215938	1	11/15/2015 20:39	NP
Surr: Dibromofluoromethane	88.6	82.2-120		%REC	215938	1	11/15/2015 20:39	NP
Surr: Toluene-d8	97.5	81.8-120		%REC	215938	1	11/15/2015 20:39	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 18-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-101
Project Name:	BFEL-Atlanta	**Collection Date:**	11/10/2015 1:00:00 PM
Lab ID:	1511963-004	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215742	1	11/13/2015 00:24	JS
Copper	8.27	2.00		ug/L	215742	1	11/13/2015 00:24	JS
Lead	3.51	1.00		ug/L	215742	1	11/13/2015 00:24	JS
Zinc	1100	10.0		ug/L	215742	1	11/13/2015 00:24	JS
ION SCAN SW9056A								
Nitrate	11	2.5		mg/L	R304445	10	11/11/2015 11:02	JW
Sulfate	72	10		mg/L	R304445	10	11/11/2015 11:02	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215870	1	11/14/2015 00:04	JS
Copper	BRL	2.00		ug/L	215870	1	11/14/2015 00:04	JS
Lead	1.25	1.00		ug/L	215870	1	11/16/2015 15:31	JS
Zinc	1050	10.0		ug/L	215870	1	11/14/2015 00:04	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	215848	1	11/13/2015 20:49	SH
4,4´-DDE	BRL	0.10		ug/L	215848	1	11/13/2015 20:49	SH
4,4´-DDT	BRL	0.10		ug/L	215848	1	11/13/2015 20:49	SH
alpha-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 20:49	SH
alpha-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 20:49	SH
beta-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 20:49	SH
delta-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 20:49	SH
Dieldrin	BRL	0.10		ug/L	215848	1	11/13/2015 20:49	SH
gamma-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 20:49	SH
gamma-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 20:49	SH
Heptachlor	BRL	0.050		ug/L	215848	1	11/13/2015 20:49	SH
Methoxychlor	BRL	0.50		ug/L	215848	1	11/13/2015 20:49	SH
Toxaphene	BRL	5.0		ug/L	215848	1	11/13/2015 20:49	SH
Surr: Decachlorobiphenyl	55.5	14.5-127		%REC	215848	1	11/13/2015 20:49	SH
Surr: Tetrachloro-m-xylene	83.4	20.9-122		%REC	215848	1	11/13/2015 20:49	SH

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:** 18-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-12
Project Name:	BFEL-Atlanta	**Collection Date:**	11/10/2015 3:40:00 PM
Lab ID:	1511963-005	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
1,4-Dioxane	BRL	150		ug/L	215938	1	11/15/2015 21:02	NP
2-Butanone	BRL	50		ug/L	215938	1	11/15/2015 21:02	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215938	1	11/15/2015 21:02	NP
Acetone	BRL	50		ug/L	215938	1	11/15/2015 21:02	NP
Benzene	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
Carbon disulfide	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
Carbon tetrachloride	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
Chlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
Chloroethane	BRL	10		ug/L	215938	1	11/15/2015 21:02	NP
Chloroform	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
Chloromethane	BRL	10		ug/L	215938	1	11/15/2015 21:02	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
Cyclohexane	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
Ethylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
Isobutyl Alcohol	BRL	200		ug/L	215938	1	11/15/2015 21:02	NP
Isopropylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
Methylene chloride	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
Naphthalene	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
Styrene	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
Tetrachloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
Tetrahydrofuran	BRL	10		ug/L	215938	1	11/15/2015 21:02	NP
Toluene	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
Trichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
Vinyl chloride	BRL	2.0		ug/L	215938	1	11/15/2015 21:02	NP
Xylenes, Total	BRL	5.0		ug/L	215938	1	11/15/2015 21:02	NP
Surr: 4-Bromofluorobenzene	96.5	70.7-125		%REC	215938	1	11/15/2015 21:02	NP
Surr: Dibromofluoromethane	106	82.2-120		%REC	215938	1	11/15/2015 21:02	NP
Surr: Toluene-d8	109	81.8-120		%REC	215938	1	11/15/2015 21:02	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

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:** 18-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-12
Project Name:	BFEL-Atlanta	**Collection Date:**	11/10/2015 3:40:00 PM
Lab ID:	1511963-005	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215742	1	11/13/2015 00:30	JS
Copper	3.05	2.00		ug/L	215742	1	11/13/2015 00:30	JS
Lead	BRL	1.00		ug/L	215742	1	11/13/2015 00:30	JS
Zinc	197	10.0		ug/L	215742	1	11/13/2015 00:30	JS
ION SCAN SW9056A								
Nitrate	2.6	0.25		mg/L	R304445	1	11/11/2015 12:48	JW
Sulfate	65	10		mg/L	R304445	10	11/11/2015 11:17	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215870	1	11/14/2015 00:35	JS
Copper	BRL	2.00		ug/L	215870	1	11/14/2015 00:35	JS
Lead	BRL	1.00		ug/L	215870	1	11/14/2015 00:35	JS
Zinc	197	10.0		ug/L	215870	1	11/14/2015 00:35	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	215848	1	11/13/2015 21:08	SH
4,4´-DDE	BRL	0.10		ug/L	215848	1	11/13/2015 21:08	SH
4,4´-DDT	BRL	0.10		ug/L	215848	1	11/13/2015 21:08	SH
alpha-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 21:08	SH
alpha-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 21:08	SH
beta-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 21:08	SH
delta-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 21:08	SH
Dieldrin	BRL	0.10		ug/L	215848	1	11/13/2015 21:08	SH
gamma-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 21:08	SH
gamma-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 21:08	SH
Heptachlor	BRL	0.050		ug/L	215848	1	11/13/2015 21:08	SH
Methoxychlor	BRL	0.50		ug/L	215848	1	11/13/2015 21:08	SH
Toxaphene	BRL	5.0		ug/L	215848	1	11/13/2015 21:08	SH
Surr: Decachlorobiphenyl	37.6	14.5-127		%REC	215848	1	11/13/2015 21:08	SH
Surr: Tetrachloro-m-xylene	65.6	20.9-122		%REC	215848	1	11/13/2015 21:08	SH

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:** 18-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-102
Project Name:	BFEL-Atlanta	**Collection Date:**	11/10/2015 4:15:00 PM
Lab ID:	1511963-006	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
1,4-Dioxane	BRL	150		ug/L	215938	1	11/16/2015 16:42	NP
2-Butanone	BRL	50		ug/L	215938	1	11/16/2015 16:42	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215938	1	11/16/2015 16:42	NP
Acetone	BRL	50		ug/L	215938	1	11/16/2015 16:42	NP
Benzene	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
Carbon disulfide	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
Carbon tetrachloride	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
Chlorobenzene	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
Chloroethane	BRL	10		ug/L	215938	1	11/16/2015 16:42	NP
Chloroform	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
Chloromethane	BRL	10		ug/L	215938	1	11/16/2015 16:42	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
Cyclohexane	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
Ethylbenzene	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
Isobutyl Alcohol	BRL	200		ug/L	215938	1	11/16/2015 16:42	NP
Isopropylbenzene	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
Methylene chloride	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
Naphthalene	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
Styrene	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
Tetrachloroethene	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
Tetrahydrofuran	BRL	10		ug/L	215938	1	11/16/2015 16:42	NP
Toluene	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
Trichloroethene	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
Vinyl chloride	BRL	2.0		ug/L	215938	1	11/16/2015 16:42	NP
Xylenes, Total	BRL	5.0		ug/L	215938	1	11/16/2015 16:42	NP
Surr: 4-Bromofluorobenzene	96.4	70.7-125		%REC	215938	1	11/16/2015 16:42	NP
Surr: Dibromofluoromethane	102	82.2-120		%REC	215938	1	11/16/2015 16:42	NP
Surr: Toluene-d8	97.3	81.8-120		%REC	215938	1	11/16/2015 16:42	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

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:** 18-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-102
Project Name:	BFEL-Atlanta	**Collection Date:**	11/10/2015 4:15:00 PM
Lab ID:	1511963-006	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215742	1	11/13/2015 00:36	JS
Copper	3.03	2.00		ug/L	215742	1	11/13/2015 00:36	JS
Lead	BRL	1.00		ug/L	215742	1	11/13/2015 00:36	JS
Zinc	20.5	10.0		ug/L	215742	1	11/13/2015 20:06	JS
ION SCAN SW9056A								
Nitrate	2.2	0.25		mg/L	R304445	1	11/11/2015 13:48	JW
Sulfate	46	1.0		mg/L	R304445	1	11/11/2015 13:48	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215870	1	11/14/2015 00:42	JS
Copper	BRL	2.00		ug/L	215870	1	11/14/2015 00:42	JS
Lead	BRL	1.00		ug/L	215870	1	11/14/2015 00:42	JS
Zinc	BRL	10.0		ug/L	215870	1	11/14/2015 00:42	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	215848	1	11/13/2015 21:26	SH
4,4´-DDE	BRL	0.10		ug/L	215848	1	11/13/2015 21:26	SH
4,4´-DDT	BRL	0.10		ug/L	215848	1	11/13/2015 21:26	SH
alpha-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 21:26	SH
alpha-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 21:26	SH
beta-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 21:26	SH
delta-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 21:26	SH
Dieldrin	BRL	0.10		ug/L	215848	1	11/13/2015 21:26	SH
gamma-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 21:26	SH
gamma-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 21:26	SH
Heptachlor	BRL	0.050		ug/L	215848	1	11/13/2015 21:26	SH
Methoxychlor	BRL	0.50		ug/L	215848	1	11/13/2015 21:26	SH
Toxaphene	BRL	5.0		ug/L	215848	1	11/13/2015 21:26	SH
Surr: Decachlorobiphenyl	65.1	14.5-127		%REC	215848	1	11/13/2015 21:26	SH
Surr: Tetrachloro-m-xylene	81.8	20.9-122		%REC	215848	1	11/13/2015 21:26	SH

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:** 18-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-1B
Project Name:	BFEL-Atlanta	**Collection Date:**	11/10/2015 2:15:00 PM
Lab ID:	1511963-007	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
1,4-Dioxane	BRL	150		ug/L	215938	1	11/16/2015 17:06	NP
2-Butanone	BRL	50		ug/L	215938	1	11/16/2015 17:06	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215938	1	11/16/2015 17:06	NP
Acetone	BRL	50		ug/L	215938	1	11/16/2015 17:06	NP
Benzene	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
Carbon disulfide	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
Carbon tetrachloride	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
Chlorobenzene	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
Chloroethane	BRL	10		ug/L	215938	1	11/16/2015 17:06	NP
Chloroform	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
Chloromethane	BRL	10		ug/L	215938	1	11/16/2015 17:06	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
Cyclohexane	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
Ethylbenzene	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
Isobutyl Alcohol	BRL	200		ug/L	215938	1	11/16/2015 17:06	NP
Isopropylbenzene	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
Methylene chloride	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
Naphthalene	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
Styrene	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
Tetrachloroethene	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
Tetrahydrofuran	BRL	10		ug/L	215938	1	11/16/2015 17:06	NP
Toluene	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
Trichloroethene	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
Vinyl chloride	BRL	2.0		ug/L	215938	1	11/16/2015 17:06	NP
Xylenes, Total	BRL	5.0		ug/L	215938	1	11/16/2015 17:06	NP
Surr: 4-Bromofluorobenzene	97.6	70.7-125		%REC	215938	1	11/16/2015 17:06	NP
Surr: Dibromofluoromethane	104	82.2-120		%REC	215938	1	11/16/2015 17:06	NP
Surr: Toluene-d8	99.5	81.8-120		%REC	215938	1	11/16/2015 17:06	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 18-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-1B
Project Name:	BFEL-Atlanta	**Collection Date:**	11/10/2015 2:15:00 PM
Lab ID:	1511963-007	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215742	1	11/13/2015 00:42	JS
Copper	2.26	2.00		ug/L	215742	1	11/13/2015 00:42	JS
Lead	BRL	1.00		ug/L	215742	1	11/13/2015 00:42	JS
Zinc	10.0	10.0		ug/L	215742	1	11/13/2015 00:42	JS
ION SCAN SW9056A								
Nitrate	5.4	0.25		mg/L	R304445	1	11/11/2015 14:03	JW
Sulfate	37	1.0		mg/L	R304445	1	11/11/2015 14:03	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215870	1	11/14/2015 00:48	JS
Copper	BRL	2.00		ug/L	215870	1	11/14/2015 00:48	JS
Lead	BRL	1.00		ug/L	215870	1	11/14/2015 00:48	JS
Zinc	BRL	10.0		ug/L	215870	1	11/14/2015 00:48	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	215848	1	11/13/2015 21:44	SH
4,4´-DDE	BRL	0.10		ug/L	215848	1	11/13/2015 21:44	SH
4,4´-DDT	BRL	0.10		ug/L	215848	1	11/13/2015 21:44	SH
alpha-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 21:44	SH
alpha-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 21:44	SH
beta-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 21:44	SH
delta-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 21:44	SH
Dieldrin	BRL	0.10		ug/L	215848	1	11/13/2015 21:44	SH
gamma-BHC	BRL	0.050		ug/L	215848	1	11/13/2015 21:44	SH
gamma-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 21:44	SH
Heptachlor	BRL	0.050		ug/L	215848	1	11/13/2015 21:44	SH
Methoxychlor	BRL	0.50		ug/L	215848	1	11/13/2015 21:44	SH
Toxaphene	BRL	5.0		ug/L	215848	1	11/13/2015 21:44	SH
Surr: Decachlorobiphenyl	74.4	14.5-127		%REC	215848	1	11/13/2015 21:44	SH
Surr: Tetrachloro-m-xylene	77.9	20.9-122		%REC	215848	1	11/13/2015 21:44	SH

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:** 18-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-112
Project Name:	BFEL-Atlanta	**Collection Date:**	11/10/2015 3:55:00 PM
Lab ID:	1511963-008	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
1,4-Dioxane	BRL	150		ug/L	215938	1	11/16/2015 17:29	NP
2-Butanone	BRL	50		ug/L	215938	1	11/16/2015 17:29	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215938	1	11/16/2015 17:29	NP
Acetone	BRL	50		ug/L	215938	1	11/16/2015 17:29	NP
Benzene	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
Carbon disulfide	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
Carbon tetrachloride	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
Chlorobenzene	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
Chloroethane	BRL	10		ug/L	215938	1	11/16/2015 17:29	NP
Chloroform	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
Chloromethane	BRL	10		ug/L	215938	1	11/16/2015 17:29	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
Cyclohexane	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
Ethylbenzene	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
Isobutyl Alcohol	BRL	200		ug/L	215938	1	11/16/2015 17:29	NP
Isopropylbenzene	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
Methylene chloride	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
Naphthalene	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
Styrene	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
Tetrachloroethene	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
Tetrahydrofuran	BRL	10		ug/L	215938	1	11/16/2015 17:29	NP
Toluene	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
Trichloroethene	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
Vinyl chloride	BRL	2.0		ug/L	215938	1	11/16/2015 17:29	NP
Xylenes, Total	BRL	5.0		ug/L	215938	1	11/16/2015 17:29	NP
Surr: 4-Bromofluorobenzene	99.2	70.7-125		%REC	215938	1	11/16/2015 17:29	NP
Surr: Dibromofluoromethane	99.9	82.2-120		%REC	215938	1	11/16/2015 17:29	NP
Surr: Toluene-d8	90.8	81.8-120		%REC	215938	1	11/16/2015 17:29	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

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:** 18-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-112
Project Name:	BFEL-Atlanta	**Collection Date:**	11/10/2015 3:55:00 PM
Lab ID:	1511963-008	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	9.37	5.00		ug/L	215742	1	11/13/2015 00:49	JS
Copper	31.1	2.00		ug/L	215742	1	11/13/2015 00:49	JS
Lead	BRL	1.00		ug/L	215742	1	11/13/2015 00:49	JS
Zinc	1120	10.0		ug/L	215742	1	11/13/2015 00:49	JS
ION SCAN SW9056A								
Nitrate	BRL	2.5		mg/L	R304445	10	11/11/2015 12:02	JW
Sulfate	250	10		mg/L	R304445	10	11/11/2015 12:02	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	10.1	5.00		ug/L	215870	1	11/14/2015 01:26	JS
Copper	32.4	2.00		ug/L	215870	1	11/14/2015 01:26	JS
Lead	BRL	1.00		ug/L	215870	1	11/14/2015 01:26	JS
Zinc	1210	10.0		ug/L	215870	1	11/14/2015 01:26	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	215848	1	11/13/2015 22:03	SH
4,4´-DDE	BRL	0.10		ug/L	215848	1	11/13/2015 22:03	SH
4,4´-DDT	BRL	0.10		ug/L	215848	1	11/13/2015 22:03	SH
alpha-BHC	3.1	0.25		ug/L	215848	5	11/14/2015 12:44	SH
alpha-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 22:03	SH
beta-BHC	3.0	0.25		ug/L	215848	5	11/14/2015 12:44	SH
delta-BHC	2.6	0.25		ug/L	215848	5	11/14/2015 12:44	SH
Dieldrin	BRL	0.10		ug/L	215848	1	11/13/2015 22:03	SH
gamma-BHC	0.95	0.050		ug/L	215848	1	11/13/2015 22:03	SH
gamma-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 22:03	SH
Heptachlor	BRL	0.050		ug/L	215848	1	11/13/2015 22:03	SH
Methoxychlor	BRL	0.50		ug/L	215848	1	11/13/2015 22:03	SH
Toxaphene	BRL	5.0		ug/L	215848	1	11/13/2015 22:03	SH
Surr: Decachlorobiphenyl	45.7	14.5-127		%REC	215848	1	11/13/2015 22:03	SH
Surr: Tetrachloro-m-xylene	82.8	20.9-122		%REC	215848	1	11/13/2015 22:03	SH

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 ANEC/KENNESAW Work Order Number 1511963

Checklist completed by [signature] 11/10/2005
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 3.5°C Cooler #2 3.6°C 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 MP

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: 18-Nov-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1511963

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1511963-001A	TB-01	11/10/2015 11:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/15/2015 2:24:00 PM	11/15/2015
1511963-002A	EB-01	11/10/2015 11:20:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/15/2015 2:24:00 PM	11/15/2015
1511963-002B	EB-01	11/10/2015 11:20:00AM	Aqueous	TCL-CHLORINATED PESTICIDES		11/13/2015 9:00:00 AM	11/13/2015
1511963-002C	EB-01	11/10/2015 11:20:00AM	Aqueous	Total Metals by ICP/MS		11/11/2015 4:00:00 PM	11/13/2015
1511963-002D	EB-01	11/10/2015 11:20:00AM	Aqueous	ION SCAN			11/11/2015
1511963-003A	EB-02	11/10/2015 11:30:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/15/2015 2:24:00 PM	11/15/2015
1511963-003B	EB-02	11/10/2015 11:30:00AM	Aqueous	TCL-CHLORINATED PESTICIDES		11/13/2015 9:00:00 AM	11/13/2015
1511963-003C	EB-02	11/10/2015 11:30:00AM	Aqueous	Total Metals by ICP/MS		11/11/2015 4:00:00 PM	11/13/2015
1511963-003D	EB-02	11/10/2015 11:30:00AM	Aqueous	ION SCAN			11/11/2015
1511963-004A	MW-101	11/10/2015 1:00:00PM	Aqueous	Volatile Organic Compounds by GC/MS		11/15/2015 2:24:00 PM	11/15/2015
1511963-004B	MW-101	11/10/2015 1:00:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		11/13/2015 9:00:00 AM	11/13/2015
1511963-004C	MW-101	11/10/2015 1:00:00PM	Aqueous	Total Metals by ICP/MS		11/11/2015 4:00:00 PM	11/13/2015
1511963-004D	MW-101	11/10/2015 1:00:00PM	Aqueous	ION SCAN			11/11/2015
1511963-004E	MW-101	11/10/2015 1:00:00PM	Aqueous	Dissolved Metals by ICP/MS		11/13/2015 11:05:00 AM	11/14/2015
1511963-004E	MW-101	11/10/2015 1:00:00PM	Aqueous	Dissolved Metals by ICP/MS		11/13/2015 11:05:00 AM	11/16/2015
1511963-005A	TW-12	11/10/2015 3:40:00PM	Aqueous	Volatile Organic Compounds by GC/MS		11/15/2015 2:24:00 PM	11/15/2015
1511963-005B	TW-12	11/10/2015 3:40:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		11/13/2015 9:00:00 AM	11/13/2015
1511963-005C	TW-12	11/10/2015 3:40:00PM	Aqueous	Total Metals by ICP/MS		11/11/2015 4:00:00 PM	11/13/2015
1511963-005D	TW-12	11/10/2015 3:40:00PM	Aqueous	ION SCAN			11/11/2015
1511963-005E	TW-12	11/10/2015 3:40:00PM	Aqueous	Dissolved Metals by ICP/MS		11/13/2015 11:05:00 AM	11/14/2015
1511963-006A	MW-102	11/10/2015 4:15:00PM	Aqueous	Volatile Organic Compounds by GC/MS		11/15/2015 2:24:00 PM	11/16/2015
1511963-006B	MW-102	11/10/2015 4:15:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		11/13/2015 9:00:00 AM	11/13/2015
1511963-006C	MW-102	11/10/2015 4:15:00PM	Aqueous	Total Metals by ICP/MS		11/11/2015 4:00:00 PM	11/13/2015
1511963-006D	MW-102	11/10/2015 4:15:00PM	Aqueous	ION SCAN			11/11/2015
1511963-006E	MW-102	11/10/2015 4:15:00PM	Aqueous	Dissolved Metals by ICP/MS		11/13/2015 11:05:00 AM	11/14/2015
1511963-007A	MW-1B	11/10/2015 2:15:00PM	Aqueous	Volatile Organic Compounds by GC/MS		11/15/2015 2:24:00 PM	11/16/2015
1511963-007B	MW-1B	11/10/2015 2:15:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		11/13/2015 9:00:00 AM	11/13/2015
1511963-007C	MW-1B	11/10/2015 2:15:00PM	Aqueous	Total Metals by ICP/MS		11/11/2015 4:00:00 PM	11/13/2015
1511963-007D	MW-1B	11/10/2015 2:15:00PM	Aqueous	ION SCAN			11/11/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1511963

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1511963-007E	MW-1B	11/10/2015 2:15:00PM	Aqueous	Dissolved Metals by ICP/MS		11/13/2015 11:05:00 AM	11/14/2015
1511963-008A	MW-112	11/10/2015 3:55:00PM	Aqueous	Volatile Organic Compounds by GC/MS		11/15/2015 2:24:00 PM	11/16/2015
1511963-008B	MW-112	11/10/2015 3:55:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		11/13/2015 9:00:00 AM	11/13/2015
1511963-008B	MW-112	11/10/2015 3:55:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		11/13/2015 9:00:00 AM	11/14/2015
1511963-008C	MW-112	11/10/2015 3:55:00PM	Aqueous	Total Metals by ICP/MS		11/11/2015 4:00:00 PM	11/13/2015
1511963-008D	MW-112	11/10/2015 3:55:00PM	Aqueous	ION SCAN			11/11/2015
1511963-008E	MW-112	11/10/2015 3:55:00PM	Aqueous	Dissolved Metals by ICP/MS		11/13/2015 11:05:00 AM	11/14/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511963

ANALYTICAL QC SUMMARY REPORT

BatchID: 215742

Sample ID: **MB-215742** Client ID: Units: **ug/L** Prep Date: **11/11/2015** Run No: **304309**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **215742** Analysis Date: **11/12/2015** Seq No: **6515075**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00									
Copper	BRL	2.00									
Lead	BRL	1.00									
Zinc	BRL	10.0									

Sample ID: **LCS-215742** Client ID: Units: **ug/L** Prep Date: **11/11/2015** Run No: **304309**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **215742** Analysis Date: **11/12/2015** Seq No: **6515074**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	91.86	5.00	100.0	2.058	89.8	80	120				
Copper	85.86	2.00	100.0	0.3910	85.5	80	120				
Lead	93.55	1.00	100.0	0.3840	93.2	80	120				
Zinc	95.11	10.0	100.0		95.1	80	120				

Sample ID: **1511657-002BMS** Client ID: Units: **ug/L** Prep Date: **11/11/2015** Run No: **304309**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **215742** Analysis Date: **11/12/2015** Seq No: **6515077**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	89.27	5.00	100.0	0.7050	88.6	75	125				
Copper	83.26	2.00	100.0	2.032	81.2	75	125				
Lead	92.02	1.00	100.0	1.444	90.6	75	125				
Zinc	112.0	10.0	100.0	28.96	83.0	75	125				

Sample ID: **1511657-002BMSD** Client ID: Units: **ug/L** Prep Date: **11/11/2015** Run No: **304309**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **215742** Analysis Date: **11/12/2015** Seq No: **6515078**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	93.09	5.00	100.0	0.7050	92.4	75	125	89.27	4.19	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511963

ANALYTICAL QC SUMMARY REPORT

BatchID: 215742

Sample ID: **1511657-002BMSD** Client ID:
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A**
Units: **ug/L** Prep Date: **11/11/2015** Run No: **304309**
BatchID: **215742** Analysis Date: **11/12/2015** Seq No: **6515078**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	84.38	2.00	100.0	2.032	82.3	75	125	83.26	1.34	20	
Lead	92.92	1.00	100.0	1.444	91.5	75	125	92.02	0.973	20	
Zinc	111.1	10.0	100.0	28.96	82.1	75	125	112.0	0.807	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511963

ANALYTICAL QC SUMMARY REPORT

BatchID: 215848

Sample ID: **MB-215848** Client ID: Units: **ug/L** Prep Date: **11/13/2015** Run No: **304549**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **215848** Analysis Date: **11/13/2015** Seq No: **6521534**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDD	BRL	0.10									
4,4´-DDE	BRL	0.10									
4,4´-DDT	BRL	0.10									
alpha-BHC	BRL	0.050									
alpha-Chlordane	BRL	0.050									
beta-BHC	BRL	0.050									
delta-BHC	BRL	0.050									
Dieldrin	BRL	0.10									
gamma-BHC	BRL	0.050									
gamma-Chlordane	BRL	0.050									
Heptachlor	BRL	0.050									
Methoxychlor	BRL	0.50									
Toxaphene	BRL	5.0									
Surr: Decachlorobiphenyl	0.3236	0	0.5000		64.7	14.5	127				
Surr: Tetrachloro-m-xylene	0.3940	0	0.5000		78.8	20.9	122				

Sample ID: **LCS-215848** Client ID: Units: **ug/L** Prep Date: **11/13/2015** Run No: **304549**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **215848** Analysis Date: **11/13/2015** Seq No: **6521535**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.9719	0.10	1.000		97.2	56.2	135				
Dieldrin	0.9358	0.10	1.000		93.6	62.3	129				
gamma-BHC	0.9048	0.050	1.000		90.5	58.5	127				
Heptachlor	0.8639	0.050	1.000		86.4	50.7	132				
Surr: Decachlorobiphenyl	0.4131	0	0.5000		82.6	14.5	127				
Surr: Tetrachloro-m-xylene	0.4164	0	0.5000		83.3	20.9	122				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511963

ANALYTICAL QC SUMMARY REPORT

BatchID: 215848

Sample ID: **1511963-008BMS**	Client ID: **MW-112**				Units: **ug/L**		Prep Date: **11/13/2015**		Run No: **304549**	
SampleType: **MS**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**				BatchID: **215848**		Analysis Date: **11/13/2015**		Seq No: **6521544**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.5948	0.10	1.000		59.5	37.9	153				
Dieldrin	1.001	0.10	1.000	0.09443	90.7	48.7	139				
Heptachlor	0.8633	0.050	1.000		86.3	36.3	145				
Surr: Decachlorobiphenyl	0.2439	0	0.5000		48.8	14.5	127				
Surr: Tetrachloro-m-xylene	0.4352	0	0.5000		87.0	20.9	122				

Sample ID: **1511963-008BMS**	Client ID: **MW-112**				Units: **ug/L**		Prep Date: **11/13/2015**		Run No: **304585**	
SampleType: **MS**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**				BatchID: **215848**		Analysis Date: **11/14/2015**		Seq No: **6522198**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
gamma-BHC	1.916	0.25	1.000	0.9384	97.8	52	139				

Sample ID: **1511963-008BMSD**	Client ID: **MW-112**				Units: **ug/L**		Prep Date: **11/13/2015**		Run No: **304549**	
SampleType: **MSD**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**				BatchID: **215848**		Analysis Date: **11/13/2015**		Seq No: **6521545**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.5504	0.10	1.000		55.0	37.9	153	0.5948	7.77	33.7	
Dieldrin	0.9788	0.10	1.000	0.09443	88.4	48.7	139	1.001	2.27	27.1	
Heptachlor	0.8048	0.050	1.000		80.5	36.3	145	0.8633	7.01	33.3	
Surr: Decachlorobiphenyl	0.2224	0	0.5000		44.5	14.5	127	0.2439	0	0	
Surr: Tetrachloro-m-xylene	0.4027	0	0.5000		80.5	20.9	122	0.4352	0	0	

Sample ID: **1511963-008BMSD**	Client ID: **MW-112**				Units: **ug/L**		Prep Date: **11/13/2015**		Run No: **304585**	
SampleType: **MSD**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**				BatchID: **215848**		Analysis Date: **11/14/2015**		Seq No: **6522199**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
gamma-BHC	1.876	0.25	1.000	0.9384	93.7	52	139	1.916	2.14	29.8	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511963

ANALYTICAL QC SUMMARY REPORT

BatchID: 215870

Sample ID: **MB-215870** Client ID: Units: **ug/L** Prep Date: **11/13/2015** Run No: **304421**
SampleType: **MBLK** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215870** Analysis Date: **11/13/2015** Seq No: **6517983**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00									
Copper	BRL	2.00									
Lead	BRL	1.00									
Zinc	BRL	10.0									

Sample ID: **LCS-215870** Client ID: Units: **ug/L** Prep Date: **11/13/2015** Run No: **304421**
SampleType: **LCS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215870** Analysis Date: **11/13/2015** Seq No: **6517984**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	92.67	5.00	100.0	0.3920	92.3	80	120				
Copper	92.72	2.00	100.0		92.7	80	120				
Lead	94.64	1.00	100.0		94.6	80	120				
Zinc	93.81	10.0	100.0		93.8	80	120				

Sample ID: **1511963-004EMS** Client ID: **MW-101** Units: **ug/L** Prep Date: **11/13/2015** Run No: **304421**
SampleType: **MS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215870** Analysis Date: **11/14/2015** Seq No: **6517986**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	79.00	5.00	100.0	1.959	77.0	75	125				
Copper	80.42	2.00	100.0	1.118	79.3	75	125				
Lead	96.01	1.00	100.0	1.313	94.7	75	125				
Zinc	1129	10.0	100.0	1050	79.0	75	125				

Sample ID: **1511963-004EMSD** Client ID: **MW-101** Units: **ug/L** Prep Date: **11/13/2015** Run No: **304421**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215870** Analysis Date: **11/14/2015** Seq No: **6517987**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	80.73	5.00	100.0	1.959	78.8	75	125	79.00	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: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511963

ANALYTICAL QC SUMMARY REPORT

BatchID: 215870

Sample ID: **1511963-004EMSD** Client ID: **MW-101** Units: **ug/L** Prep Date: **11/13/2015** Run No: **304421**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215870** Analysis Date: **11/14/2015** Seq No: **6517987**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	79.66	2.00	100.0	1.118	78.5	75	125	80.42	0.950	20	
Lead	95.40	1.00	100.0	1.313	94.1	75	125	96.01	0.637	20	
Zinc	1125	10.0	100.0	1050	75.0	75	125	1129	0.355	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511963

ANALYTICAL QC SUMMARY REPORT

BatchID: 215938

Sample ID: **MB-215938** Client ID: Units: **ug/L** Prep Date: **11/15/2015** Run No: **304392**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **215938** Analysis Date: **11/15/2015** Seq No: **6517255**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,1-Dichloropropene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,4-Dioxane	BRL	150									
2-Butanone	BRL	50									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
Cyclohexane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Isobutyl Alcohol	BRL	200									
Isopropylbenzene	BRL	5.0									
Methylene chloride	BRL	5.0									
Naphthalene	BRL	5.0									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511963

ANALYTICAL QC SUMMARY REPORT

BatchID: 215938

Sample ID: **MB-215938** Client ID: Units: **ug/L** Prep Date: **11/15/2015** Run No: **304392**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **215938** Analysis Date: **11/15/2015** Seq No: **6517255**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Tetrahydrofuran	BRL	10									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	48.60	0	50.00		97.2	70.7	125				
Surr: Dibromofluoromethane	49.63	0	50.00		99.3	82.2	120				
Surr: Toluene-d8	48.96	0	50.00		97.9	81.8	120				

Sample ID: **LCS-215938** Client ID: Units: **ug/L** Prep Date: **11/15/2015** Run No: **304392**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **215938** Analysis Date: **11/15/2015** Seq No: **6517264**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	61.86	5.0	50.00		124	64.2	137				
Benzene	53.93	5.0	50.00		108	72.8	128				
Chlorobenzene	52.68	5.0	50.00		105	72.3	126				
Toluene	53.18	5.0	50.00		106	74.9	127				
Trichloroethene	58.63	5.0	50.00		117	70.5	134				
Surr: 4-Bromofluorobenzene	44.76	0	50.00		89.5	70.7	125				
Surr: Dibromofluoromethane	50.01	0	50.00		100	82.2	120				
Surr: Toluene-d8	48.59	0	50.00		97.2	81.8	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511963

ANALYTICAL QC SUMMARY REPORT

BatchID: 215938

Sample ID: **1511B08-003AMS** Client ID: Units: **ug/L** Prep Date: **11/15/2015** Run No: **304392**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **215938** Analysis Date: **11/15/2015** Seq No: **6517261**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	580.4	50	500.0		116	60.5	156				
Benzene	517.4	50	500.0		103	70	135				
Chlorobenzene	502.4	50	500.0		100	70.5	132				
Toluene	501.1	50	500.0		100	70.5	137				
Trichloroethene	1478	50	500.0	1008	94.0	71.8	139				
Surr: 4-Bromofluorobenzene	431.0	0	500.0		86.2	70.7	125				
Surr: Dibromofluoromethane	493.2	0	500.0		98.6	82.2	120				
Surr: Toluene-d8	485.6	0	500.0		97.1	81.8	120				

Sample ID: **1511B08-003AMSD** Client ID: Units: **ug/L** Prep Date: **11/15/2015** Run No: **304392**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **215938** Analysis Date: **11/15/2015** Seq No: **6517263**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	566.7	50	500.0		113	60.5	156	580.4	2.39	20	
Benzene	545.4	50	500.0		109	70	135	517.4	5.27	20	
Chlorobenzene	501.7	50	500.0		100	70.5	132	502.4	0.139	20	
Toluene	477.9	50	500.0		95.6	70.5	137	501.1	4.74	20	
Trichloroethene	1576	50	500.0	1008	114	71.8	139	1478	6.45	20	
Surr: 4-Bromofluorobenzene	490.3	0	500.0		98.1	70.7	125	431.0	0	0	
Surr: Dibromofluoromethane	538.5	0	500.0		108	82.2	120	493.2	0	0	
Surr: Toluene-d8	483.4	0	500.0		96.7	81.8	120	485.6	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511963

ANALYTICAL QC SUMMARY REPORT

BatchID: R304445

Sample ID: **MB-R304445** Client ID: Units: **mg/L** Prep Date: Run No: **304445**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R304445** Analysis Date: **11/11/2015** Seq No: **6518594**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R304445** Client ID: Units: **mg/L** Prep Date: Run No: **304445**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R304445** Analysis Date: **11/11/2015** Seq No: **6518593**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.979	0.25	5.000		99.6	90	110				
Sulfate	24.89	1.0	25.00		99.5	90	110				

Sample ID: **1511A50-002BMS** Client ID: Units: **mg/L** Prep Date: Run No: **304445**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R304445** Analysis Date: **11/11/2015** Seq No: **6518613**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	58.98	2.5	50.00	6.812	104	90	110				
Sulfate	274.1	10	250.0	24.61	99.8	90	110				

Sample ID: **1511A54-002BMS** Client ID: Units: **mg/L** Prep Date: Run No: **304445**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R304445** Analysis Date: **11/11/2015** Seq No: **6518617**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	60.48	2.5	50.00	7.200	107	90	110				
Sulfate	278.1	10	250.0	26.47	101	90	110				

Sample ID: **1511A50-002BMSD** Client ID: Units: **mg/L** Prep Date: Run No: **304445**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R304445** Analysis Date: **11/11/2015** Seq No: **6518614**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	60.48	2.5	50.00	6.812	107	90	110	58.98	2.51	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: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511963

ANALYTICAL QC SUMMARY REPORT

BatchID: R304445

Sample ID: **1511A50-002BMSD** Client ID:
SampleType: **MSD** TestCode: **ION SCAN SW9056A**
Units: **mg/L** Prep Date: Run No: **304445**
BatchID: **R304445** Analysis Date: **11/11/2015** Seq No: **6518614**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	281.2	10	250.0	24.61	103	90	110	274.1	2.53	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.

November 19, 2015

Rhonda Quinn
AMEC E&I, Inc. -Kennesaw
1075 Big Shanty Rd NW
Kennesaw GA 30144

TEL: (770) 421-3400
FAX: (770) 421-3486

RE: BFEL-Atlanta

Dear Rhonda Quinn: Order No: 1511B08

Analytical Environmental Services, Inc. received 7 samples on 11/11/2015 5:40:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' 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 09/01/17.

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.

Ioana Pacurar

Ioana Pacurar
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: 1511B08

Date: 11/11/15 Page 1 of 1

COMPANY: Amec Foster Wheeler

ADDRESS: 1075 Big Shanty Rd Ste 108 Kennesaw, GA 30144

PHONE: 770-421-3400 FAX: 770-421-3486

SAMPLED BY: D Howard/E Guillen/M Bowen SIGNATURE: Daniel L Howard

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOC 1,5+ 8260	Pest 8081A	TCL Metals 6020	Diss metals 6020	NO3,SO4 9056	PRESERVATION (See codes)	REMARKS	No # of Containers
1	TB-02	11/11/15	1000	X		W						H+I		2
2	TW-11		1230	X		GW	2	2	1	1	1	I		7
3	TW-1		1550	X		GW	2	2	1	1	1	N		7
4	MW-108		1130	X		GW	2	2	1	1	1	I		7
5	MW-110		1415	X		GW	2	2	1	1	1	I		7
6	MW-26		1150	X		GW	2	2	1	1	1			7
7	MW-104A		1530	X		GW	2	2	1	1	1			7
8	Temp Blank													
9														
10														
11														
12														
13														
14														

ANALYSIS REQUESTED

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

RELINQUISHED BY / DATE/TIME
1: Daniel L Howard 11/11/15/1651
2: 11-11-15 5:40
3:

RECEIVED BY / DATE/TIME
1: 11-11-15 4:52pm
2: 11/11/15 17:40
3:

PROJECT INFORMATION
PROJECT NAME: BFEL Atlanta
PROJECT #: 612208015 4.18
SITE ADDRESS: 1525 Pine St NW Atlanta, GA
SEND REPORT TO: Rhonda Quinn
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers

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): GA
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:
* Dissolved metals will be filtered by Lab
Metals: As, Pb, Cu, Zn

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 **Date:** 19-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-02
Project Name:	BFEL-Atlanta	**Collection Date:**	11/11/2015 10:00:00 AM
Lab ID:	1511B08-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
1,4-Dioxane	BRL	150		ug/L	215938	1	11/15/2015 16:58	NP
2-Butanone	BRL	50		ug/L	215938	1	11/15/2015 16:58	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215938	1	11/15/2015 16:58	NP
Acetone	BRL	50		ug/L	215938	1	11/15/2015 16:58	NP
Benzene	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
Carbon disulfide	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
Carbon tetrachloride	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
Chlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
Chloroethane	BRL	10		ug/L	215938	1	11/15/2015 16:58	NP
Chloroform	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
Chloromethane	BRL	10		ug/L	215938	1	11/15/2015 16:58	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
Cyclohexane	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
Ethylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
Isobutyl Alcohol	BRL	200		ug/L	215938	1	11/15/2015 16:58	NP
Isopropylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
Methylene chloride	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
Naphthalene	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
Styrene	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
Tetrachloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
Tetrahydrofuran	BRL	10		ug/L	215938	1	11/15/2015 16:58	NP
Toluene	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
Trichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
Vinyl chloride	BRL	2.0		ug/L	215938	1	11/15/2015 16:58	NP
Xylenes, Total	BRL	5.0		ug/L	215938	1	11/15/2015 16:58	NP
Surr: 4-Bromofluorobenzene	90.1	70.7-125		%REC	215938	1	11/15/2015 16:58	NP
Surr: Dibromofluoromethane	105	82.2-120		%REC	215938	1	11/15/2015 16:58	NP
Surr: Toluene-d8	100	81.8-120		%REC	215938	1	11/15/2015 16:58	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 19-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-11
Project Name:	BFEL-Atlanta	**Collection Date:**	11/11/2015 12:30:00 PM
Lab ID:	1511B08-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
1,4-Dioxane	BRL	150		ug/L	215938	1	11/15/2015 17:29	NP
2-Butanone	BRL	50		ug/L	215938	1	11/15/2015 17:29	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215938	1	11/15/2015 17:29	NP
Acetone	BRL	50		ug/L	215938	1	11/15/2015 17:29	NP
Benzene	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
Carbon disulfide	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
Carbon tetrachloride	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
Chlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
Chloroethane	BRL	10		ug/L	215938	1	11/15/2015 17:29	NP
Chloroform	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
Chloromethane	BRL	10		ug/L	215938	1	11/15/2015 17:29	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
Cyclohexane	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
Ethylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
Isobutyl Alcohol	BRL	200		ug/L	215938	1	11/15/2015 17:29	NP
Isopropylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
Methylene chloride	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
Naphthalene	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
Styrene	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
Tetrachloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
Tetrahydrofuran	BRL	10		ug/L	215938	1	11/15/2015 17:29	NP
Toluene	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
Trichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
Vinyl chloride	BRL	2.0		ug/L	215938	1	11/15/2015 17:29	NP
Xylenes, Total	BRL	5.0		ug/L	215938	1	11/15/2015 17:29	NP
Surr: 4-Bromofluorobenzene	97	70.7-125		%REC	215938	1	11/15/2015 17:29	NP
Surr: Dibromofluoromethane	102	82.2-120		%REC	215938	1	11/15/2015 17:29	NP
Surr: Toluene-d8	86.9	81.8-120		%REC	215938	1	11/15/2015 17:29	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

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:** 19-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-11
Project Name:	BFEL-Atlanta	**Collection Date:**	11/11/2015 12:30:00 PM
Lab ID:	1511B08-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215889	1	11/16/2015 21:11	JS
Copper	110	2.00		ug/L	215889	1	11/16/2015 21:11	JS
Lead	BRL	1.00		ug/L	215889	1	11/17/2015 15:00	JS
Zinc	386	10.0		ug/L	215889	1	11/16/2015 21:11	JS
ION SCAN SW9056A								
Nitrate	5.7	0.25		mg/L	R304557	1	11/12/2015 11:19	JW
Sulfate	160	10		mg/L	R304557	10	11/12/2015 13:50	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215870	1	11/14/2015 01:32	JS
Copper	117	2.00		ug/L	215870	1	11/14/2015 01:32	JS
Lead	BRL	1.00		ug/L	215870	1	11/14/2015 01:32	JS
Zinc	396	10.0		ug/L	215870	1	11/14/2015 01:32	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	215848	1	11/13/2015 22:59	SH
4,4´-DDE	BRL	0.10		ug/L	215848	1	11/13/2015 22:59	SH
4,4´-DDT	BRL	0.10		ug/L	215848	1	11/13/2015 22:59	SH
alpha-BHC	4.0	0.25		ug/L	215848	5	11/14/2015 13:40	SH
alpha-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 22:59	SH
beta-BHC	4.9	0.25		ug/L	215848	5	11/14/2015 13:40	SH
delta-BHC	3.4	0.25		ug/L	215848	5	11/14/2015 13:40	SH
Dieldrin	0.12	0.10		ug/L	215848	1	11/13/2015 22:59	SH
gamma-BHC	1.1	0.050		ug/L	215848	1	11/13/2015 22:59	SH
gamma-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 22:59	SH
Heptachlor	BRL	0.050		ug/L	215848	1	11/13/2015 22:59	SH
Methoxychlor	BRL	0.50		ug/L	215848	1	11/13/2015 22:59	SH
Toxaphene	BRL	5.0		ug/L	215848	1	11/13/2015 22:59	SH
Surr: Decachlorobiphenyl	69.2	14.5-127		%REC	215848	1	11/13/2015 22:59	SH
Surr: Tetrachloro-m-xylene	81.9	20.9-122		%REC	215848	1	11/13/2015 22:59	SH

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:** 19-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-1
Project Name:	BFEL-Atlanta	**Collection Date:**	11/11/2015 3:50:00 PM
Lab ID:	1511B08-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
1,4-Dioxane	BRL	150		ug/L	215938	1	11/16/2015 17:53	NP
2-Butanone	BRL	50		ug/L	215938	1	11/16/2015 17:53	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215938	1	11/16/2015 17:53	NP
Acetone	BRL	50		ug/L	215938	1	11/16/2015 17:53	NP
Benzene	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
Carbon disulfide	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
Carbon tetrachloride	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
Chlorobenzene	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
Chloroethane	BRL	10		ug/L	215938	1	11/16/2015 17:53	NP
Chloroform	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
Chloromethane	BRL	10		ug/L	215938	1	11/16/2015 17:53	NP
cis-1,2-Dichloroethene	350	50		ug/L	215938	10	11/15/2015 14:55	NP
Cyclohexane	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
Ethylbenzene	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
Isobutyl Alcohol	BRL	200		ug/L	215938	1	11/16/2015 17:53	NP
Isopropylbenzene	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
Methylene chloride	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
Naphthalene	11	5.0		ug/L	215938	1	11/16/2015 17:53	NP
Styrene	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
Tetrachloroethene	5.7	5.0		ug/L	215938	1	11/16/2015 17:53	NP
Tetrahydrofuran	BRL	10		ug/L	215938	1	11/16/2015 17:53	NP
Toluene	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
Trichloroethene	1000	50		ug/L	215938	10	11/15/2015 14:55	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
Vinyl chloride	3.6	2.0		ug/L	215938	1	11/16/2015 17:53	NP
Xylenes, Total	BRL	5.0		ug/L	215938	1	11/16/2015 17:53	NP
Surr: 4-Bromofluorobenzene	95.7	70.7-125		%REC	215938	1	11/16/2015 17:53	NP
Surr: 4-Bromofluorobenzene	99.9	70.7-125		%REC	215938	10	11/15/2015 14:55	NP
Surr: Dibromofluoromethane	103	82.2-120		%REC	215938	1	11/16/2015 17:53	NP
Surr: Dibromofluoromethane	110	82.2-120		%REC	215938	10	11/15/2015 14:55	NP
Surr: Toluene-d8	95.5	81.8-120		%REC	215938	10	11/15/2015 14:55	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 19-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-1
Project Name:	BFEL-Atlanta	**Collection Date:**	11/11/2015 3:50:00 PM
Lab ID:	1511B08-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Surr: Toluene-d8	98	81.8-120		%REC	215938	1	11/16/2015 17:53	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215889	1	11/16/2015 21:43	JS
Copper	4.99	2.00		ug/L	215889	1	11/16/2015 21:43	JS
Lead	3.02	1.00		ug/L	215889	1	11/16/2015 21:43	JS
Zinc	119	10.0		ug/L	215889	1	11/16/2015 21:43	JS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R304557	1	11/12/2015 11:34	JW
Sulfate	31	1.0		mg/L	R304557	1	11/12/2015 11:34	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215870	1	11/14/2015 01:38	JS
Copper	BRL	2.00		ug/L	215870	1	11/16/2015 15:37	JS
Lead	BRL	1.00		ug/L	215870	1	11/14/2015 01:38	JS
Zinc	105	10.0		ug/L	215870	1	11/14/2015 01:38	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	1.4	0.10		ug/L	215848	1	11/13/2015 23:17	SH
4,4´-DDE	1.4	0.10		ug/L	215848	1	11/13/2015 23:17	SH
4,4´-DDT	1.7	0.10		ug/L	215848	1	11/13/2015 23:17	SH
alpha-BHC	1.5	0.050		ug/L	215848	1	11/13/2015 23:17	SH
alpha-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 23:17	SH
beta-BHC	33	2.5		ug/L	215848	50	11/14/2015 13:58	SH
delta-BHC	1.4	0.050		ug/L	215848	1	11/13/2015 23:17	SH
Dieldrin	0.16	0.10		ug/L	215848	1	11/13/2015 23:17	SH
gamma-BHC	0.74	0.050		ug/L	215848	1	11/13/2015 23:17	SH
gamma-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 23:17	SH
Heptachlor	BRL	0.050		ug/L	215848	1	11/13/2015 23:17	SH
Methoxychlor	BRL	0.50		ug/L	215848	1	11/13/2015 23:17	SH
Toxaphene	BRL	5.0		ug/L	215848	1	11/13/2015 23:17	SH
Surr: Decachlorobiphenyl	31.9	14.5-127		%REC	215848	1	11/13/2015 23:17	SH
Surr: Tetrachloro-m-xylene	91.3	20.9-122		%REC	215848	1	11/13/2015 23:17	SH

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:** 19-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-108
Project Name:	BFEL-Atlanta	**Collection Date:**	11/11/2015 11:30:00 AM
Lab ID:	1511B08-004	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
1,4-Dioxane	BRL	150		ug/L	215938	1	11/15/2015 17:53	NP
2-Butanone	BRL	50		ug/L	215938	1	11/15/2015 17:53	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215938	1	11/15/2015 17:53	NP
Acetone	BRL	50		ug/L	215938	1	11/15/2015 17:53	NP
Benzene	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
Carbon disulfide	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
Carbon tetrachloride	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
Chlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
Chloroethane	BRL	10		ug/L	215938	1	11/15/2015 17:53	NP
Chloroform	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
Chloromethane	BRL	10		ug/L	215938	1	11/15/2015 17:53	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
Cyclohexane	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
Ethylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
Isobutyl Alcohol	BRL	200		ug/L	215938	1	11/15/2015 17:53	NP
Isopropylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
Methylene chloride	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
Naphthalene	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
Styrene	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
Tetrachloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
Tetrahydrofuran	BRL	10		ug/L	215938	1	11/15/2015 17:53	NP
Toluene	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
Trichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
Vinyl chloride	BRL	2.0		ug/L	215938	1	11/15/2015 17:53	NP
Xylenes, Total	BRL	5.0		ug/L	215938	1	11/15/2015 17:53	NP
Surr: 4-Bromofluorobenzene	78.2	70.7-125		%REC	215938	1	11/15/2015 17:53	NP
Surr: Dibromofluoromethane	101	82.2-120		%REC	215938	1	11/15/2015 17:53	NP
Surr: Toluene-d8	85.2	81.8-120		%REC	215938	1	11/15/2015 17:53	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 19-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-108
Project Name:	BFEL-Atlanta	**Collection Date:**	11/11/2015 11:30:00 AM
Lab ID:	1511B08-004	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215889	1	11/16/2015 21:49	JS
Copper	170	2.00		ug/L	215889	1	11/16/2015 21:49	JS
Lead	BRL	1.00		ug/L	215889	1	11/16/2015 21:49	JS
Zinc	1960	10.0		ug/L	215889	1	11/16/2015 21:49	JS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R304557	1	11/12/2015 11:49	JW
Sulfate	300	10		mg/L	R304557	10	11/12/2015 14:05	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215870	1	11/14/2015 01:44	JS
Copper	182	2.00		ug/L	215870	1	11/14/2015 01:44	JS
Lead	BRL	1.00		ug/L	215870	1	11/14/2015 01:44	JS
Zinc	2220	10.0		ug/L	215870	1	11/14/2015 01:44	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	0.11	0.10		ug/L	215848	1	11/13/2015 23:36	SH
4,4´-DDE	BRL	0.10		ug/L	215848	1	11/13/2015 23:36	SH
4,4´-DDT	BRL	0.10		ug/L	215848	1	11/13/2015 23:36	SH
alpha-BHC	5.5	0.25		ug/L	215848	5	11/14/2015 14:16	SH
alpha-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 23:36	SH
beta-BHC	1.2	0.050		ug/L	215848	1	11/13/2015 23:36	SH
delta-BHC	3.3	0.25		ug/L	215848	5	11/14/2015 14:16	SH
Dieldrin	BRL	0.10		ug/L	215848	1	11/13/2015 23:36	SH
gamma-BHC	0.43	0.050		ug/L	215848	1	11/13/2015 23:36	SH
gamma-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 23:36	SH
Heptachlor	BRL	0.050		ug/L	215848	1	11/13/2015 23:36	SH
Methoxychlor	BRL	0.50		ug/L	215848	1	11/13/2015 23:36	SH
Toxaphene	BRL	5.0		ug/L	215848	1	11/13/2015 23:36	SH
Surr: Decachlorobiphenyl	59.3	14.5-127		%REC	215848	1	11/13/2015 23:36	SH
Surr: Tetrachloro-m-xylene	76.7	20.9-122		%REC	215848	1	11/13/2015 23:36	SH

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:** 19-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-110
Project Name:	BFEL-Atlanta	**Collection Date:**	11/11/2015 2:15:00 PM
Lab ID:	1511B08-005	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
1,4-Dioxane	BRL	150		ug/L	215938	1	11/15/2015 18:17	NP
2-Butanone	BRL	50		ug/L	215938	1	11/15/2015 18:17	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215938	1	11/15/2015 18:17	NP
Acetone	BRL	50		ug/L	215938	1	11/15/2015 18:17	NP
Benzene	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
Carbon disulfide	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
Carbon tetrachloride	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
Chlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
Chloroethane	BRL	10		ug/L	215938	1	11/15/2015 18:17	NP
Chloroform	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
Chloromethane	BRL	10		ug/L	215938	1	11/15/2015 18:17	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
Cyclohexane	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
Ethylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
Isobutyl Alcohol	BRL	200		ug/L	215938	1	11/15/2015 18:17	NP
Isopropylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
Methylene chloride	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
Naphthalene	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
Styrene	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
Tetrachloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
Tetrahydrofuran	BRL	10		ug/L	215938	1	11/15/2015 18:17	NP
Toluene	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
Trichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
Vinyl chloride	BRL	2.0		ug/L	215938	1	11/15/2015 18:17	NP
Xylenes, Total	BRL	5.0		ug/L	215938	1	11/15/2015 18:17	NP
Surr: 4-Bromofluorobenzene	90.7	70.7-125		%REC	215938	1	11/15/2015 18:17	NP
Surr: Dibromofluoromethane	100	82.2-120		%REC	215938	1	11/15/2015 18:17	NP
Surr: Toluene-d8	98.5	81.8-120		%REC	215938	1	11/15/2015 18:17	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

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:** 19-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-110
Project Name:	BFEL-Atlanta	**Collection Date:**	11/11/2015 2:15:00 PM
Lab ID:	1511B08-005	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215889	1	11/16/2015 21:55	JS
Copper	284	2.00		ug/L	215889	1	11/16/2015 21:55	JS
Lead	BRL	1.00		ug/L	215889	1	11/16/2015 21:55	JS
Zinc	3740	10.0		ug/L	215889	1	11/16/2015 21:55	JS
ION SCAN SW9056A								
Nitrate	4.0	0.25		mg/L	R304557	1	11/12/2015 12:04	JW
Sulfate	310	10		mg/L	R304557	10	11/12/2015 14:20	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215870	1	11/14/2015 01:51	JS
Copper	293	2.00		ug/L	215870	1	11/14/2015 01:51	JS
Lead	BRL	1.00		ug/L	215870	1	11/14/2015 01:51	JS
Zinc	3960	10.0		ug/L	215870	1	11/14/2015 01:51	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	215848	1	11/13/2015 23:55	SH
4,4´-DDE	BRL	0.10		ug/L	215848	1	11/13/2015 23:55	SH
4,4´-DDT	BRL	0.10		ug/L	215848	1	11/13/2015 23:55	SH
alpha-BHC	0.90	0.050		ug/L	215848	1	11/13/2015 23:55	SH
alpha-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 23:55	SH
beta-BHC	0.32	0.050		ug/L	215848	1	11/13/2015 23:55	SH
delta-BHC	1.8	0.10		ug/L	215848	2	11/14/2015 14:35	SH
Dieldrin	BRL	0.10		ug/L	215848	1	11/13/2015 23:55	SH
gamma-BHC	1.0	0.050		ug/L	215848	1	11/13/2015 23:55	SH
gamma-Chlordane	BRL	0.050		ug/L	215848	1	11/13/2015 23:55	SH
Heptachlor	BRL	0.050		ug/L	215848	1	11/13/2015 23:55	SH
Methoxychlor	BRL	0.50		ug/L	215848	1	11/13/2015 23:55	SH
Toxaphene	BRL	5.0		ug/L	215848	1	11/13/2015 23:55	SH
Surr: Decachlorobiphenyl	69.4	14.5-127		%REC	215848	1	11/13/2015 23:55	SH
Surr: Tetrachloro-m-xylene	89.3	20.9-122		%REC	215848	1	11/13/2015 23:55	SH

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:** 19-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-26
Project Name:	BFEL-Atlanta	**Collection Date:**	11/11/2015 11:50:00 AM
Lab ID:	1511B08-006	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
1,4-Dioxane	BRL	150		ug/L	215938	1	11/15/2015 18:41	NP
2-Butanone	BRL	50		ug/L	215938	1	11/15/2015 18:41	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215938	1	11/15/2015 18:41	NP
Acetone	BRL	50		ug/L	215938	1	11/15/2015 18:41	NP
Benzene	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
Carbon disulfide	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
Carbon tetrachloride	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
Chlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
Chloroethane	BRL	10		ug/L	215938	1	11/15/2015 18:41	NP
Chloroform	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
Chloromethane	BRL	10		ug/L	215938	1	11/15/2015 18:41	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
Cyclohexane	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
Ethylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
Isobutyl Alcohol	BRL	200		ug/L	215938	1	11/15/2015 18:41	NP
Isopropylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
Methylene chloride	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
Naphthalene	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
Styrene	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
Tetrachloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
Tetrahydrofuran	BRL	10		ug/L	215938	1	11/15/2015 18:41	NP
Toluene	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
Trichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
Vinyl chloride	BRL	2.0		ug/L	215938	1	11/15/2015 18:41	NP
Xylenes, Total	BRL	5.0		ug/L	215938	1	11/15/2015 18:41	NP
Surr: 4-Bromofluorobenzene	90.7	70.7-125		%REC	215938	1	11/15/2015 18:41	NP
Surr: Dibromofluoromethane	105	82.2-120		%REC	215938	1	11/15/2015 18:41	NP
Surr: Toluene-d8	97.1	81.8-120		%REC	215938	1	11/15/2015 18:41	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

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:** 19-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-26
Project Name:	BFEL-Atlanta	**Collection Date:**	11/11/2015 11:50:00 AM
Lab ID:	1511B08-006	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215889	1	11/16/2015 22:20	JS
Copper	11.0	2.00		ug/L	215889	1	11/16/2015 22:20	JS
Lead	1.09	1.00		ug/L	215889	1	11/16/2015 22:20	JS
Zinc	140	10.0		ug/L	215889	1	11/16/2015 22:20	JS
ION SCAN SW9056A								
Nitrate	1.4	0.25		mg/L	R304557	1	11/12/2015 12:19	JW
Sulfate	270	10		mg/L	R304557	10	11/12/2015 14:35	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215870	1	11/14/2015 01:57	JS
Copper	7.54	2.00		ug/L	215870	1	11/14/2015 01:57	JS
Lead	BRL	1.00		ug/L	215870	1	11/14/2015 01:57	JS
Zinc	126	10.0		ug/L	215870	1	11/14/2015 01:57	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	215848	1	11/14/2015 00:13	SH
4,4´-DDE	BRL	0.10		ug/L	215848	1	11/14/2015 00:13	SH
4,4´-DDT	BRL	0.10		ug/L	215848	1	11/14/2015 00:13	SH
alpha-BHC	BRL	0.050		ug/L	215848	1	11/14/2015 00:13	SH
alpha-Chlordane	BRL	0.050		ug/L	215848	1	11/14/2015 00:13	SH
beta-BHC	0.36	0.050		ug/L	215848	1	11/14/2015 00:13	SH
delta-BHC	0.064	0.050		ug/L	215848	1	11/14/2015 00:13	SH
Dieldrin	BRL	0.10		ug/L	215848	1	11/14/2015 00:13	SH
gamma-BHC	BRL	0.050		ug/L	215848	1	11/14/2015 00:13	SH
gamma-Chlordane	BRL	0.050		ug/L	215848	1	11/14/2015 00:13	SH
Heptachlor	BRL	0.050		ug/L	215848	1	11/14/2015 00:13	SH
Methoxychlor	BRL	0.50		ug/L	215848	1	11/14/2015 00:13	SH
Toxaphene	BRL	5.0		ug/L	215848	1	11/14/2015 00:13	SH
Surr: Decachlorobiphenyl	67.5	14.5-127		%REC	215848	1	11/14/2015 00:13	SH
Surr: Tetrachloro-m-xylene	81.8	20.9-122		%REC	215848	1	11/14/2015 00:13	SH

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:** 19-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-104A
Project Name:	BFEL-Atlanta	**Collection Date:**	11/11/2015 3:30:00 PM
Lab ID:	1511B08-007	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
1,4-Dioxane	BRL	150		ug/L	215938	1	11/15/2015 19:04	NP
2-Butanone	BRL	50		ug/L	215938	1	11/15/2015 19:04	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215938	1	11/15/2015 19:04	NP
Acetone	BRL	50		ug/L	215938	1	11/15/2015 19:04	NP
Benzene	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
Carbon disulfide	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
Carbon tetrachloride	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
Chlorobenzene	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
Chloroethane	BRL	10		ug/L	215938	1	11/15/2015 19:04	NP
Chloroform	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
Chloromethane	BRL	10		ug/L	215938	1	11/15/2015 19:04	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
Cyclohexane	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
Ethylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
Isobutyl Alcohol	BRL	200		ug/L	215938	1	11/15/2015 19:04	NP
Isopropylbenzene	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
Methylene chloride	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
Naphthalene	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
Styrene	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
Tetrachloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
Tetrahydrofuran	BRL	10		ug/L	215938	1	11/15/2015 19:04	NP
Toluene	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
Trichloroethene	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
Vinyl chloride	BRL	2.0		ug/L	215938	1	11/15/2015 19:04	NP
Xylenes, Total	BRL	5.0		ug/L	215938	1	11/15/2015 19:04	NP
Surr: 4-Bromofluorobenzene	101	70.7-125		%REC	215938	1	11/15/2015 19:04	NP
Surr: Dibromofluoromethane	102	82.2-120		%REC	215938	1	11/15/2015 19:04	NP
Surr: Toluene-d8	99.8	81.8-120		%REC	215938	1	11/15/2015 19:04	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

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:** 19-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-104A
Project Name:	BFEL-Atlanta	**Collection Date:**	11/11/2015 3:30:00 PM
Lab ID:	1511B08-007	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	BRL	5.00		ug/L	215889	1	11/16/2015 22:27	JS
Copper	BRL	2.00		ug/L	215889	1	11/16/2015 22:27	JS
Lead	BRL	1.00		ug/L	215889	1	11/16/2015 22:27	JS
Zinc	BRL	10.0		ug/L	215889	1	11/16/2015 22:27	JS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R304557	1	11/12/2015 12:35	JW
Sulfate	98	5.0		mg/L	R304557	5	11/12/2015 14:50	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	BRL	5.00		ug/L	215870	1	11/14/2015 02:03	JS
Copper	BRL	2.00		ug/L	215870	1	11/14/2015 02:03	JS
Lead	BRL	1.00		ug/L	215870	1	11/14/2015 02:03	JS
Zinc	BRL	10.0		ug/L	215870	1	11/14/2015 02:03	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**			
4,4´-DDD	BRL	0.10		ug/L	215848	1	11/14/2015 00:32	SH
4,4´-DDE	BRL	0.10		ug/L	215848	1	11/14/2015 00:32	SH
4,4´-DDT	BRL	0.10		ug/L	215848	1	11/14/2015 00:32	SH
alpha-BHC	BRL	0.050		ug/L	215848	1	11/14/2015 00:32	SH
alpha-Chlordane	BRL	0.050		ug/L	215848	1	11/14/2015 00:32	SH
beta-BHC	BRL	0.050		ug/L	215848	1	11/14/2015 00:32	SH
delta-BHC	BRL	0.050		ug/L	215848	1	11/14/2015 00:32	SH
Dieldrin	BRL	0.10		ug/L	215848	1	11/14/2015 00:32	SH
gamma-BHC	BRL	0.050		ug/L	215848	1	11/14/2015 00:32	SH
gamma-Chlordane	BRL	0.050		ug/L	215848	1	11/14/2015 00:32	SH
Heptachlor	BRL	0.050		ug/L	215848	1	11/14/2015 00:32	SH
Methoxychlor	BRL	0.50		ug/L	215848	1	11/14/2015 00:32	SH
Toxaphene	BRL	5.0		ug/L	215848	1	11/14/2015 00:32	SH
Surr: Decachlorobiphenyl	59.4	14.5-127		%REC	215848	1	11/14/2015 00:32	SH
Surr: Tetrachloro-m-xylene	83.7	20.9-122		%REC	215848	1	11/14/2015 00:32	SH

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 Amec / Kennesaw Work Order Number 1511B08

Checklist completed by [signature] 11/11/15
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 Cooler #2 3.4 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 AP

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_Receipt_Checklist_Rev1.rtf

Analytical Environmental Services, Inc

Date: 20-Nov-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1511B08

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1511B08-001A	TB-02	11/11/2015 10:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/15/2015 2:24:00PM	11/15/2015
1511B08-002A	TW-11	11/11/2015 12:30:00PM	Aqueous	Volatile Organic Compounds by GC/MS		11/15/2015 2:24:00PM	11/15/2015
1511B08-002B	TW-11	11/11/2015 12:30:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		11/13/2015 9:00:00AM	11/13/2015
1511B08-002B	TW-11	11/11/2015 12:30:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		11/13/2015 9:00:00AM	11/14/2015
1511B08-002C	TW-11	11/11/2015 12:30:00PM	Aqueous	Total Metals by ICP/MS		11/13/2015 2:45:00PM	11/16/2015
1511B08-002C	TW-11	11/11/2015 12:30:00PM	Aqueous	Total Metals by ICP/MS		11/13/2015 2:45:00PM	11/17/2015
1511B08-002D	TW-11	11/11/2015 12:30:00PM	Aqueous	Dissolved Metals by ICP/MS		11/13/2015 11:05:00AM	11/14/2015
1511B08-002E	TW-11	11/11/2015 12:30:00PM	Aqueous	ION SCAN			11/12/2015
1511B08-003A	TW-1	11/11/2015 3:50:00PM	Aqueous	Volatile Organic Compounds by GC/MS		11/15/2015 2:24:00PM	11/15/2015
1511B08-003A	TW-1	11/11/2015 3:50:00PM	Aqueous	Volatile Organic Compounds by GC/MS		11/15/2015 2:24:00PM	11/16/2015
1511B08-003B	TW-1	11/11/2015 3:50:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		11/13/2015 9:00:00AM	11/13/2015
1511B08-003B	TW-1	11/11/2015 3:50:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		11/13/2015 9:00:00AM	11/14/2015
1511B08-003C	TW-1	11/11/2015 3:50:00PM	Aqueous	Total Metals by ICP/MS		11/13/2015 2:45:00PM	11/16/2015
1511B08-003D	TW-1	11/11/2015 3:50:00PM	Aqueous	Dissolved Metals by ICP/MS		11/13/2015 11:05:00AM	11/14/2015
1511B08-003D	TW-1	11/11/2015 3:50:00PM	Aqueous	Dissolved Metals by ICP/MS		11/13/2015 11:05:00AM	11/16/2015
1511B08-003E	TW-1	11/11/2015 3:50:00PM	Aqueous	ION SCAN			11/12/2015
1511B08-004A	MW-108	11/11/2015 11:30:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/15/2015 2:24:00PM	11/15/2015
1511B08-004B	MW-108	11/11/2015 11:30:00AM	Aqueous	TCL-CHLORINATED PESTICIDES		11/13/2015 9:00:00AM	11/13/2015
1511B08-004B	MW-108	11/11/2015 11:30:00AM	Aqueous	TCL-CHLORINATED PESTICIDES		11/13/2015 9:00:00AM	11/14/2015
1511B08-004C	MW-108	11/11/2015 11:30:00AM	Aqueous	Total Metals by ICP/MS		11/13/2015 2:45:00PM	11/16/2015
1511B08-004D	MW-108	11/11/2015 11:30:00AM	Aqueous	Dissolved Metals by ICP/MS		11/13/2015 11:05:00AM	11/14/2015
1511B08-004E	MW-108	11/11/2015 11:30:00AM	Aqueous	ION SCAN			11/12/2015
1511B08-005A	MW-110	11/11/2015 2:15:00PM	Aqueous	Volatile Organic Compounds by GC/MS		11/15/2015 2:24:00PM	11/15/2015
1511B08-005B	MW-110	11/11/2015 2:15:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		11/13/2015 9:00:00AM	11/13/2015
1511B08-005B	MW-110	11/11/2015 2:15:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		11/13/2015 9:00:00AM	11/14/2015
1511B08-005C	MW-110	11/11/2015 2:15:00PM	Aqueous	Total Metals by ICP/MS		11/13/2015 2:45:00PM	11/16/2015
1511B08-005D	MW-110	11/11/2015 2:15:00PM	Aqueous	Dissolved Metals by ICP/MS		11/13/2015 11:05:00AM	11/14/2015
1511B08-005E	MW-110	11/11/2015 2:15:00PM	Aqueous	ION SCAN			11/12/2015
1511B08-006A	MW-26	11/11/2015 11:50:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/15/2015 2:24:00PM	11/15/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1511B08

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1511B08-006B	MW-26	11/11/2015 11:50:00AM	Aqueous	TCL-CHLORINATED PESTICIDES		11/13/2015 9:00:00AM	11/14/2015
1511B08-006C	MW-26	11/11/2015 11:50:00AM	Aqueous	Total Metals by ICP/MS		11/13/2015 2:45:00PM	11/16/2015
1511B08-006D	MW-26	11/11/2015 11:50:00AM	Aqueous	Dissolved Metals by ICP/MS		11/13/2015 11:05:00AM	11/14/2015
1511B08-006E	MW-26	11/11/2015 11:50:00AM	Aqueous	ION SCAN			11/12/2015
1511B08-007A	MW-104A	11/11/2015 3:30:00PM	Aqueous	Volatile Organic Compounds by GC/MS		11/15/2015 2:24:00PM	11/15/2015
1511B08-007B	MW-104A	11/11/2015 3:30:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		11/13/2015 9:00:00AM	11/14/2015
1511B08-007C	MW-104A	11/11/2015 3:30:00PM	Aqueous	Total Metals by ICP/MS		11/13/2015 2:45:00PM	11/16/2015
1511B08-007D	MW-104A	11/11/2015 3:30:00PM	Aqueous	Dissolved Metals by ICP/MS		11/13/2015 11:05:00AM	11/14/2015
1511B08-007E	MW-104A	11/11/2015 3:30:00PM	Aqueous	ION SCAN			11/12/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511B08

ANALYTICAL QC SUMMARY REPORT

BatchID: 215848

Sample ID: **MB-215848** Client ID: Units: **ug/L** Prep Date: **11/13/2015** Run No: **304549**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **215848** Analysis Date: **11/13/2015** Seq No: **6521534**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDD	BRL	0.10									
4,4´-DDE	BRL	0.10									
4,4´-DDT	BRL	0.10									
alpha-BHC	BRL	0.050									
alpha-Chlordane	BRL	0.050									
beta-BHC	BRL	0.050									
delta-BHC	BRL	0.050									
Dieldrin	BRL	0.10									
gamma-BHC	BRL	0.050									
gamma-Chlordane	BRL	0.050									
Heptachlor	BRL	0.050									
Methoxychlor	BRL	0.50									
Toxaphene	BRL	5.0									
Surr: Decachlorobiphenyl	0.3236	0	0.5000		64.7	14.5	127				
Surr: Tetrachloro-m-xylene	0.3940	0	0.5000		78.8	20.9	122				

Sample ID: **LCS-215848** Client ID: Units: **ug/L** Prep Date: **11/13/2015** Run No: **304549**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **215848** Analysis Date: **11/13/2015** Seq No: **6521535**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.9719	0.10	1.000		97.2	56.2	135				
Dieldrin	0.9358	0.10	1.000		93.6	62.3	129				
gamma-BHC	0.9048	0.050	1.000		90.5	58.5	127				
Heptachlor	0.8639	0.050	1.000		86.4	50.7	132				
Surr: Decachlorobiphenyl	0.4131	0	0.5000		82.6	14.5	127				
Surr: Tetrachloro-m-xylene	0.4164	0	0.5000		83.3	20.9	122				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511B08

ANALYTICAL QC SUMMARY REPORT

BatchID: 215848

Sample ID: **1511963-008BMS**	Client ID:				Units: **ug/L**		Prep Date: **11/13/2015**		Run No: **304549**	
SampleType: **MS**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**				BatchID: **215848**		Analysis Date: **11/13/2015**		Seq No: **6521544**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.5948	0.10	1.000		59.5	37.9	153				
Dieldrin	1.001	0.10	1.000	0.09443	90.7	48.7	139				
Heptachlor	0.8633	0.050	1.000		86.3	36.3	145				
Surr: Decachlorobiphenyl	0.2439	0	0.5000		48.8	14.5	127				
Surr: Tetrachloro-m-xylene	0.4352	0	0.5000		87.0	20.9	122				

Sample ID: **1511963-008BMS**	Client ID:				Units: **ug/L**		Prep Date: **11/13/2015**		Run No: **304585**	
SampleType: **MS**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**				BatchID: **215848**		Analysis Date: **11/14/2015**		Seq No: **6522198**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
gamma-BHC	1.916	0.25	1.000	0.9384	97.8	52	139				

Sample ID: **1511963-008BMSD**	Client ID:				Units: **ug/L**		Prep Date: **11/13/2015**		Run No: **304549**	
SampleType: **MSD**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**				BatchID: **215848**		Analysis Date: **11/13/2015**		Seq No: **6521545**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.5504	0.10	1.000		55.0	37.9	153	0.5948	7.77	33.7	
Dieldrin	0.9788	0.10	1.000	0.09443	88.4	48.7	139	1.001	2.27	27.1	
Heptachlor	0.8048	0.050	1.000		80.5	36.3	145	0.8633	7.01	33.3	
Surr: Decachlorobiphenyl	0.2224	0	0.5000		44.5	14.5	127	0.2439	0	0	
Surr: Tetrachloro-m-xylene	0.4027	0	0.5000		80.5	20.9	122	0.4352	0	0	

Sample ID: **1511963-008BMSD**	Client ID:				Units: **ug/L**		Prep Date: **11/13/2015**		Run No: **304585**	
SampleType: **MSD**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**				BatchID: **215848**		Analysis Date: **11/14/2015**		Seq No: **6522199**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
gamma-BHC	1.876	0.25	1.000	0.9384	93.7	52	139	1.916	2.14	29.8	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511B08

ANALYTICAL QC SUMMARY REPORT

BatchID: 215870

Sample ID: **MB-215870** Client ID: Units: **ug/L** Prep Date: **11/13/2015** Run No: **304421**
SampleType: **MBLK** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215870** Analysis Date: **11/13/2015** Seq No: **6517983**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00									
Copper	BRL	2.00									
Lead	BRL	1.00									
Zinc	BRL	10.0									

Sample ID: **LCS-215870** Client ID: Units: **ug/L** Prep Date: **11/13/2015** Run No: **304421**
SampleType: **LCS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215870** Analysis Date: **11/13/2015** Seq No: **6517984**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	92.67	5.00	100.0	0.3920	92.3	80	120				
Copper	92.72	2.00	100.0		92.7	80	120				
Lead	94.64	1.00	100.0		94.6	80	120				
Zinc	93.81	10.0	100.0		93.8	80	120				

Sample ID: **1511963-004EMS** Client ID: Units: **ug/L** Prep Date: **11/13/2015** Run No: **304421**
SampleType: **MS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215870** Analysis Date: **11/14/2015** Seq No: **6517986**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	79.00	5.00	100.0	1.959	77.0	75	125				
Copper	80.42	2.00	100.0	1.118	79.3	75	125				
Lead	96.01	1.00	100.0	1.313	94.7	75	125				
Zinc	1129	10.0	100.0	1050	79.0	75	125				

Sample ID: **1511963-004EMSD** Client ID: Units: **ug/L** Prep Date: **11/13/2015** Run No: **304421**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215870** Analysis Date: **11/14/2015** Seq No: **6517987**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	80.73	5.00	100.0	1.959	78.8	75	125	79.00	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: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511B08

ANALYTICAL QC SUMMARY REPORT

BatchID: 215870

Sample ID: **1511963-004EMSD** Client ID:
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A**
Units: **ug/L** Prep Date: **11/13/2015** Run No: **304421**
BatchID: **215870** Analysis Date: **11/14/2015** Seq No: **6517987**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	79.66	2.00	100.0	1.118	78.5	75	125	80.42	0.950	20	
Lead	95.40	1.00	100.0	1.313	94.1	75	125	96.01	0.637	20	
Zinc	1125	10.0	100.0	1050	75.0	75	125	1129	0.355	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511B08

ANALYTICAL QC SUMMARY REPORT

BatchID: 215889

Sample ID: **MB-215889** Client ID: Units: **ug/L** Prep Date: **11/13/2015** Run No: **304510**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **215889** Analysis Date: **11/16/2015** Seq No: **6521474**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00									
Copper	BRL	2.00									
Lead	BRL	1.00									
Zinc	BRL	10.0									

Sample ID: **LCS-215889** Client ID: Units: **ug/L** Prep Date: **11/13/2015** Run No: **304510**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **215889** Analysis Date: **11/16/2015** Seq No: **6521475**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	95.06	5.00	100.0	0.3760	94.7	80	120				
Copper	87.48	2.00	100.0		87.5	80	120				
Lead	92.92	1.00	100.0		92.9	80	120				
Zinc	93.66	10.0	100.0		93.7	80	120				

Sample ID: **1511B08-002CMS** Client ID: **TW-11** Units: **ug/L** Prep Date: **11/13/2015** Run No: **304510**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **215889** Analysis Date: **11/16/2015** Seq No: **6521481**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	91.64	5.00	100.0	1.756	89.9	75	125				
Copper	189.6	2.00	100.0	109.9	79.7	75	125				
Lead	94.60	1.00	100.0	1.158	93.4	75	125				
Zinc	474.3	10.0	100.0	386.3	88.0	75	125				

Sample ID: **1511B08-002CMSD** Client ID: **TW-11** Units: **ug/L** Prep Date: **11/13/2015** Run No: **304510**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **215889** Analysis Date: **11/16/2015** Seq No: **6521484**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	93.21	5.00	100.0	1.756	91.5	75	125	91.64	1.70	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511B08

ANALYTICAL QC SUMMARY REPORT

BatchID: 215889

Sample ID: **1511B08-002CMSD** Client ID: **TW-11** Units: **ug/L** Prep Date: **11/13/2015** Run No: **304510**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **215889** Analysis Date: **11/16/2015** Seq No: **6521484**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	189.7	2.00	100.0	109.9	79.8	75	125	189.6	0.053	20	
Lead	95.41	1.00	100.0	1.158	94.3	75	125	94.60	0.853	20	
Zinc	478.2	10.0	100.0	386.3	91.9	75	125	474.3	0.819	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511B08

ANALYTICAL QC SUMMARY REPORT

BatchID: 215938

Sample ID: **MB-215938** Client ID: Units: **ug/L** Prep Date: **11/15/2015** Run No: **304392**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **215938** Analysis Date: **11/15/2015** Seq No: **6517255**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,1-Dichloropropene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,4-Dioxane	BRL	150									
2-Butanone	BRL	50									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
Cyclohexane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Isobutyl Alcohol	BRL	200									
Isopropylbenzene	BRL	5.0									
Methylene chloride	BRL	5.0									
Naphthalene	BRL	5.0									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511B08

ANALYTICAL QC SUMMARY REPORT

BatchID: 215938

Sample ID: **MB-215938** Client ID: Units: **ug/L** Prep Date: **11/15/2015** Run No: **304392**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **215938** Analysis Date: **11/15/2015** Seq No: **6517255**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Tetrahydrofuran	BRL	10									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	48.60	0	50.00		97.2	70.7	125				
Surr: Dibromofluoromethane	49.63	0	50.00		99.3	82.2	120				
Surr: Toluene-d8	48.96	0	50.00		97.9	81.8	120				

Sample ID: **LCS-215938** Client ID: Units: **ug/L** Prep Date: **11/15/2015** Run No: **304392**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **215938** Analysis Date: **11/15/2015** Seq No: **6517264**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	61.86	5.0	50.00		124	64.2	137				
Benzene	53.93	5.0	50.00		108	72.8	128				
Chlorobenzene	52.68	5.0	50.00		105	72.3	126				
Toluene	53.18	5.0	50.00		106	74.9	127				
Trichloroethene	58.63	5.0	50.00		117	70.5	134				
Surr: 4-Bromofluorobenzene	44.76	0	50.00		89.5	70.7	125				
Surr: Dibromofluoromethane	50.01	0	50.00		100	82.2	120				
Surr: Toluene-d8	48.59	0	50.00		97.2	81.8	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511B08

ANALYTICAL QC SUMMARY REPORT

BatchID: 215938

Sample ID: **1511B08-003AMS** Client ID: **TW-1** Units: **ug/L** Prep Date: **11/15/2015** Run No: **304392**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **215938** Analysis Date: **11/15/2015** Seq No: **6517261**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	580.4	50	500.0		116	60.5	156				
Benzene	517.4	50	500.0		103	70	135				
Chlorobenzene	502.4	50	500.0		100	70.5	132				
Toluene	501.1	50	500.0		100	70.5	137				
Trichloroethene	1478	50	500.0	1008	94.0	71.8	139				
Surr: 4-Bromofluorobenzene	431.0	0	500.0		86.2	70.7	125				
Surr: Dibromofluoromethane	493.2	0	500.0		98.6	82.2	120				
Surr: Toluene-d8	485.6	0	500.0		97.1	81.8	120				

Sample ID: **1511B08-003AMSD** Client ID: **TW-1** Units: **ug/L** Prep Date: **11/15/2015** Run No: **304392**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **215938** Analysis Date: **11/15/2015** Seq No: **6517263**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	566.7	50	500.0		113	60.5	156	580.4	2.39	20	
Benzene	545.4	50	500.0		109	70	135	517.4	5.27	20	
Chlorobenzene	501.7	50	500.0		100	70.5	132	502.4	0.139	20	
Toluene	477.9	50	500.0		95.6	70.5	137	501.1	4.74	20	
Trichloroethene	1576	50	500.0	1008	114	71.8	139	1478	6.45	20	
Surr: 4-Bromofluorobenzene	490.3	0	500.0		98.1	70.7	125	431.0	0	0	
Surr: Dibromofluoromethane	538.5	0	500.0		108	82.2	120	493.2	0	0	
Surr: Toluene-d8	483.4	0	500.0		96.7	81.8	120	485.6	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511B08

ANALYTICAL QC SUMMARY REPORT

BatchID: R304557

Sample ID: **MB-R304557** Client ID: Units: **mg/L** Prep Date: Run No: **304557**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R304557** Analysis Date: **11/12/2015** Seq No: **6521713**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R304557** Client ID: Units: **mg/L** Prep Date: Run No: **304557**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R304557** Analysis Date: **11/12/2015** Seq No: **6521712**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.089	0.25	5.000		102	90	110				
Sulfate	25.51	1.0	25.00		102	90	110				

Sample ID: **1511B08-003EMS** Client ID: **TW-1** Units: **mg/L** Prep Date: Run No: **304557**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R304557** Analysis Date: **11/12/2015** Seq No: **6521730**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	52.49	2.5	50.00		105	90	110				
Sulfate	287.8	10	250.0	29.40	103	90	110				

Sample ID: **1511C22-002BMS** Client ID: Units: **mg/L** Prep Date: Run No: **304557**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R304557** Analysis Date: **11/12/2015** Seq No: **6521734**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	59.78	2.5	50.00	6.854	106	90	110				
Sulfate	280.3	10	250.0	26.78	101	90	110				

Sample ID: **1511B08-003EMSD** Client ID: **TW-1** Units: **mg/L** Prep Date: Run No: **304557**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R304557** Analysis Date: **11/12/2015** Seq No: **6521731**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	52.66	2.5	50.00		105	90	110	52.49	0.317	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511B08

ANALYTICAL QC SUMMARY REPORT

BatchID: R304557

Sample ID: **1511B08-003EMSD** Client ID: **TW-1** Units: **mg/L** Prep Date: Run No: **304557**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R304557** Analysis Date: **11/12/2015** Seq No: **6521731**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	286.8	10	250.0	29.40	103	90	110	287.8	0.358	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.

November 20, 2015

Rhonda Quinn
AMEC E&I, Inc. -Kennesaw
1075 Big Shanty Rd NW
Kennesaw GA 30144

TEL: (770) 421-3400
FAX: (770) 421-3486

RE: BFEL-Atlanta

Dear Rhonda Quinn: Order No: 1511C39

Analytical Environmental Services, Inc. received 10 samples on 11/12/2015 5:40:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' 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 09/01/17.

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.

Ioana Pacurar

Ioana Pacurar
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: 1511039

Date: 11/12/15 Page 1 of 1

COMPANY: Amec Foster Wheeler
ADDRESS: 1075 Big Shanty Rd Ste 100 Kennesaw, GA 30144
PHONE: 770-421-3400
FAX: 770-421-3486
SAMPLED BY: D Howard / E Guillen / M Bowen
SIGNATURE: Daniel L Howard

* ANALYSIS REQUESTED

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs 11s + 8260	Pest + PCBs + TAL metals 6020	Diss Metals 6020	NO_3, SO_4/9056	PRESERVATION (See codes)	REMARKS	No # of Containers
							H+I	I	N	I	I		
1	TB-03	11/12/15	1000	X		W	2						3
2	TW-2		1105	X		GW	2	2	1	1	1		7
3	TW-3		1350	X		GW	2	2	1	1	1		7
4	TW-4		1510	X		GW	2	2	1	1	1		7
5	MW-107D		1550	X		GW	2	2	1	1	1		7
6	MW-22		1345	X		GW	2	2	1	1	1		7
7	MW-~~108~~ DH 116		1015	X		GW	2	2	1	1	1		7
8	MW-105		1600	X		GW		2	1	1	1		5
9	MW-104D		1610	X		GW	2	2	1	1	1		7
10	DUP-1		1200	X		GW	2						2
11	Temp Blanks												
12													
13													
14													

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

RELINQUISHED BY / DATE/TIME
1: Daniel L Howard 11/12/15/1653
2: 11-12-15 — 5:40
3:

RECEIVED BY / DATE/TIME
1: 11-12-15 4:53
2: 11/12/15 5:40pm
3:

PROJECT INFORMATION
PROJECT NAME: BFEL Atlanta
PROJECT #: 612208015 4.18
SITE ADDRESS: 1525 Pine St NW Atlanta, GA
SEND REPORT TO:
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers

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): GA
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:
* Dissolved metals will be Filtered by the Lab
Metals: As, Cu, Pb, Zn

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

Client: AMEC E&I, Inc. -Kennesaw
Project: BFEL-Atlanta
Lab ID: 1511C39

Case Narrative

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1511C39-009A, & -010A required dilution during preparation and/or analysis resulting in elevated reporting limits.

IC Analysis by Method 9056A:

Due to sample matrix, sample(s) 1511C39-003E and -009E required a dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc **Date:** 20-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-03
Project Name:	BFEL-Atlanta	**Collection Date:**	11/12/2015 10:00:00 AM
Lab ID:	1511C39-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
1,4-Dioxane	BRL	150		ug/L	215997	1	11/16/2015 22:19	NP
2-Butanone	BRL	50		ug/L	215997	1	11/16/2015 22:19	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215997	1	11/16/2015 22:19	NP
Acetone	BRL	50		ug/L	215997	1	11/16/2015 22:19	NP
Benzene	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
Carbon disulfide	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
Carbon tetrachloride	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
Chlorobenzene	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
Chloroethane	BRL	10		ug/L	215997	1	11/16/2015 22:19	NP
Chloroform	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
Chloromethane	BRL	10		ug/L	215997	1	11/16/2015 22:19	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
Cyclohexane	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
Ethylbenzene	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
Isobutyl Alcohol	BRL	200		ug/L	215997	1	11/16/2015 22:19	NP
Isopropylbenzene	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
Methylene chloride	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
Naphthalene	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
Styrene	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
Tetrachloroethene	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
Tetrahydrofuran	BRL	10		ug/L	215997	1	11/16/2015 22:19	NP
Toluene	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
Trichloroethene	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
Vinyl chloride	BRL	2.0		ug/L	215997	1	11/16/2015 22:19	NP
Xylenes, Total	BRL	5.0		ug/L	215997	1	11/16/2015 22:19	NP
Surr: 4-Bromofluorobenzene	94	70.7-125		%REC	215997	1	11/16/2015 22:19	NP
Surr: Dibromofluoromethane	104	82.2-120		%REC	215997	1	11/16/2015 22:19	NP
Surr: Toluene-d8	97.6	81.8-120		%REC	215997	1	11/16/2015 22:19	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 20-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-2
Project Name:	BFEL-Atlanta	**Collection Date:**	11/12/2015 11:05:00 AM
Lab ID:	1511C39-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
1,4-Dioxane	BRL	150		ug/L	215997	1	11/17/2015 00:17	NP
2-Butanone	BRL	50		ug/L	215997	1	11/17/2015 00:17	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215997	1	11/17/2015 00:17	NP
Acetone	BRL	50		ug/L	215997	1	11/17/2015 00:17	NP
Benzene	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
Carbon disulfide	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
Carbon tetrachloride	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
Chlorobenzene	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
Chloroethane	BRL	10		ug/L	215997	1	11/17/2015 00:17	NP
Chloroform	18	5.0		ug/L	215997	1	11/17/2015 00:17	NP
Chloromethane	BRL	10		ug/L	215997	1	11/17/2015 00:17	NP
cis-1,2-Dichloroethene	69	5.0		ug/L	215997	1	11/17/2015 00:17	NP
Cyclohexane	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
Ethylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
Isobutyl Alcohol	BRL	200		ug/L	215997	1	11/17/2015 00:17	NP
Isopropylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
Methylene chloride	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
Naphthalene	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
Styrene	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
Tetrachloroethene	6.9	5.0		ug/L	215997	1	11/17/2015 00:17	NP
Tetrahydrofuran	BRL	10		ug/L	215997	1	11/17/2015 00:17	NP
Toluene	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
Trichloroethene	68	5.0		ug/L	215997	1	11/17/2015 00:17	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
Vinyl chloride	BRL	2.0		ug/L	215997	1	11/17/2015 00:17	NP
Xylenes, Total	BRL	5.0		ug/L	215997	1	11/17/2015 00:17	NP
Surr: 4-Bromofluorobenzene	89.9	70.7-125		%REC	215997	1	11/17/2015 00:17	NP
Surr: Dibromofluoromethane	104	82.2-120		%REC	215997	1	11/17/2015 00:17	NP
Surr: Toluene-d8	98.5	81.8-120		%REC	215997	1	11/17/2015 00:17	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

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:** 20-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-2
Project Name:	BFEL-Atlanta	**Collection Date:**	11/12/2015 11:05:00 AM
Lab ID:	1511C39-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215889	1	11/16/2015 22:33	JS
Copper	BRL	2.00		ug/L	215889	1	11/16/2015 22:33	JS
Lead	BRL	1.00		ug/L	215889	1	11/16/2015 22:33	JS
Zinc	BRL	10.0		ug/L	215889	1	11/16/2015 22:33	JS
ION SCAN SW9056A								
Nitrate	4.8	0.25		mg/L	R304641	1	11/13/2015 14:52	JW
Sulfate	80	5.0		mg/L	R304641	5	11/13/2015 17:10	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215870	1	11/14/2015 02:10	JS
Copper	BRL	2.00		ug/L	215870	1	11/14/2015 02:10	JS
Lead	BRL	1.00		ug/L	215870	1	11/14/2015 02:10	JS
Zinc	BRL	10.0		ug/L	215870	1	11/14/2015 02:10	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	215940	1	11/16/2015 20:30	SH
4,4´-DDE	BRL	0.10		ug/L	215940	1	11/16/2015 20:30	SH
4,4´-DDT	BRL	0.10		ug/L	215940	1	11/16/2015 20:30	SH
alpha-BHC	BRL	0.050		ug/L	215940	1	11/16/2015 20:30	SH
alpha-Chlordane	BRL	0.050		ug/L	215940	1	11/16/2015 20:30	SH
beta-BHC	BRL	0.050		ug/L	215940	1	11/16/2015 20:30	SH
delta-BHC	BRL	0.050		ug/L	215940	1	11/16/2015 20:30	SH
Dieldrin	BRL	0.10		ug/L	215940	1	11/16/2015 20:30	SH
gamma-BHC	BRL	0.050		ug/L	215940	1	11/16/2015 20:30	SH
gamma-Chlordane	BRL	0.050		ug/L	215940	1	11/16/2015 20:30	SH
Heptachlor	BRL	0.050		ug/L	215940	1	11/16/2015 20:30	SH
Methoxychlor	BRL	0.50		ug/L	215940	1	11/16/2015 20:30	SH
Toxaphene	BRL	5.0		ug/L	215940	1	11/16/2015 20:30	SH
Surr: Decachlorobiphenyl	86.1	14.5-127		%REC	215940	1	11/16/2015 20:30	SH
Surr: Tetrachloro-m-xylene	62.2	20.9-122		%REC	215940	1	11/16/2015 20:30	SH

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:** 20-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-3
Project Name:	BFEL-Atlanta	**Collection Date:**	11/12/2015 1:50:00 PM
Lab ID:	1511C39-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
1,4-Dioxane	BRL	150		ug/L	215997	1	11/17/2015 00:40	NP
2-Butanone	BRL	50		ug/L	215997	1	11/17/2015 00:40	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215997	1	11/17/2015 00:40	NP
Acetone	BRL	50		ug/L	215997	1	11/17/2015 00:40	NP
Benzene	10	5.0		ug/L	215997	1	11/17/2015 00:40	NP
Carbon disulfide	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
Carbon tetrachloride	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
Chlorobenzene	15	5.0		ug/L	215997	1	11/17/2015 00:40	NP
Chloroethane	BRL	10		ug/L	215997	1	11/17/2015 00:40	NP
Chloroform	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
Chloromethane	BRL	10		ug/L	215997	1	11/17/2015 00:40	NP
cis-1,2-Dichloroethene	200	5.0		ug/L	215997	1	11/17/2015 00:40	NP
Cyclohexane	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
Ethylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
Isobutyl Alcohol	BRL	200		ug/L	215997	1	11/17/2015 00:40	NP
Isopropylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
Methylene chloride	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
Naphthalene	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
Styrene	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
Tetrachloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
Tetrahydrofuran	BRL	10		ug/L	215997	1	11/17/2015 00:40	NP
Toluene	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
Trichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
Vinyl chloride	BRL	2.0		ug/L	215997	1	11/17/2015 00:40	NP
Xylenes, Total	BRL	5.0		ug/L	215997	1	11/17/2015 00:40	NP
Surr: 4-Bromofluorobenzene	95.9	70.7-125		%REC	215997	1	11/17/2015 00:40	NP
Surr: Dibromofluoromethane	103	82.2-120		%REC	215997	1	11/17/2015 00:40	NP
Surr: Toluene-d8	96.5	81.8-120		%REC	215997	1	11/17/2015 00:40	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 20-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-3
Project Name:	BFEL-Atlanta	**Collection Date:**	11/12/2015 1:50:00 PM
Lab ID:	1511C39-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215889	1	11/16/2015 22:39	JS
Copper	624	2.00		ug/L	215889	1	11/16/2015 22:39	JS
Lead	2.81	1.00		ug/L	215889	1	11/16/2015 22:39	JS
Zinc	1650	10.0		ug/L	215889	1	11/16/2015 22:39	JS
ION SCAN SW9056A								
Nitrate	BRL	12		mg/L	R304641	50	11/13/2015 18:10	JW
Sulfate	600	50		mg/L	R304641	50	11/13/2015 18:10	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215870	1	11/14/2015 02:16	JS
Copper	646	2.00		ug/L	215870	1	11/14/2015 02:16	JS
Lead	2.38	1.00		ug/L	215870	1	11/14/2015 02:16	JS
Zinc	1670	10.0		ug/L	215870	1	11/14/2015 02:16	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	215940	1	11/16/2015 21:26	SH
4,4´-DDE	BRL	0.10		ug/L	215940	1	11/16/2015 21:26	SH
4,4´-DDT	BRL	0.10		ug/L	215940	1	11/16/2015 21:26	SH
alpha-BHC	1.6	0.25		ug/L	215940	5	11/18/2015 15:20	SH
alpha-Chlordane	BRL	0.050		ug/L	215940	1	11/16/2015 21:26	SH
beta-BHC	1.5	0.050		ug/L	215940	1	11/16/2015 21:26	SH
delta-BHC	0.51	0.050		ug/L	215940	1	11/16/2015 21:26	SH
Dieldrin	BRL	0.10		ug/L	215940	1	11/16/2015 21:26	SH
gamma-BHC	0.71	0.050		ug/L	215940	1	11/16/2015 21:26	SH
gamma-Chlordane	BRL	0.050		ug/L	215940	1	11/16/2015 21:26	SH
Heptachlor	BRL	0.050		ug/L	215940	1	11/16/2015 21:26	SH
Methoxychlor	BRL	0.50		ug/L	215940	1	11/16/2015 21:26	SH
Toxaphene	BRL	5.0		ug/L	215940	1	11/16/2015 21:26	SH
Surr: Decachlorobiphenyl	61.6	14.5-127		%REC	215940	1	11/16/2015 21:26	SH
Surr: Tetrachloro-m-xylene	66.2	20.9-122		%REC	215940	1	11/16/2015 21:26	SH

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:** 20-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-4
Project Name:	BFEL-Atlanta	**Collection Date:**	11/12/2015 3:10:00 PM
Lab ID:	1511C39-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
1,4-Dioxane	BRL	150		ug/L	215997	1	11/17/2015 12:15	NP
2-Butanone	BRL	50		ug/L	215997	1	11/17/2015 12:15	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215997	1	11/17/2015 12:15	NP
Acetone	BRL	50		ug/L	215997	1	11/17/2015 12:15	NP
Benzene	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
Carbon disulfide	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
Carbon tetrachloride	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
Chlorobenzene	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
Chloroethane	BRL	10		ug/L	215997	1	11/17/2015 12:15	NP
Chloroform	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
Chloromethane	BRL	10		ug/L	215997	1	11/17/2015 12:15	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
Cyclohexane	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
Ethylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
Isobutyl Alcohol	BRL	200		ug/L	215997	1	11/17/2015 12:15	NP
Isopropylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
Methylene chloride	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
Naphthalene	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
Styrene	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
Tetrachloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
Tetrahydrofuran	BRL	10		ug/L	215997	1	11/17/2015 12:15	NP
Toluene	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
Trichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
Vinyl chloride	BRL	2.0		ug/L	215997	1	11/17/2015 12:15	NP
Xylenes, Total	BRL	5.0		ug/L	215997	1	11/17/2015 12:15	NP
Surr: 4-Bromofluorobenzene	99	70.7-125		%REC	215997	1	11/17/2015 12:15	NP
Surr: Dibromofluoromethane	100	82.2-120		%REC	215997	1	11/17/2015 12:15	NP
Surr: Toluene-d8	96.9	81.8-120		%REC	215997	1	11/17/2015 12:15	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

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:** 20-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-4
Project Name:	BFEL-Atlanta	**Collection Date:**	11/12/2015 3:10:00 PM
Lab ID:	1511C39-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215889	1	11/16/2015 22:45	JS
Copper	134	2.00		ug/L	215889	1	11/16/2015 22:45	JS
Lead	2.74	1.00		ug/L	215889	1	11/16/2015 22:45	JS
Zinc	626	10.0		ug/L	215889	1	11/16/2015 22:45	JS
ION SCAN SW9056A								
Nitrate	0.85	0.25		mg/L	R304641	1	11/13/2015 15:22	JW
Sulfate	130	10		mg/L	R304641	10	11/13/2015 18:25	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215870	1	11/14/2015 02:22	JS
Copper	126	2.00		ug/L	215870	1	11/14/2015 02:22	JS
Lead	BRL	1.00		ug/L	215870	1	11/14/2015 02:22	JS
Zinc	622	10.0		ug/L	215870	1	11/14/2015 02:22	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	215940	1	11/16/2015 21:44	SH
4,4´-DDE	BRL	0.10		ug/L	215940	1	11/16/2015 21:44	SH
4,4´-DDT	BRL	0.10		ug/L	215940	1	11/16/2015 21:44	SH
alpha-BHC	BRL	0.050		ug/L	215940	1	11/16/2015 21:44	SH
alpha-Chlordane	BRL	0.050		ug/L	215940	1	11/16/2015 21:44	SH
beta-BHC	8.6	0.50		ug/L	215940	10	11/18/2015 18:48	SH
delta-BHC	0.085	0.050		ug/L	215940	1	11/16/2015 21:44	SH
Dieldrin	0.15	0.10		ug/L	215940	1	11/16/2015 21:44	SH
gamma-BHC	BRL	0.050		ug/L	215940	1	11/16/2015 21:44	SH
gamma-Chlordane	BRL	0.050		ug/L	215940	1	11/16/2015 21:44	SH
Heptachlor	BRL	0.050		ug/L	215940	1	11/16/2015 21:44	SH
Methoxychlor	BRL	0.50		ug/L	215940	1	11/16/2015 21:44	SH
Toxaphene	BRL	5.0		ug/L	215940	1	11/16/2015 21:44	SH
Surr: Decachlorobiphenyl	54.8	14.5-127		%REC	215940	1	11/16/2015 21:44	SH
Surr: Tetrachloro-m-xylene	55.8	20.9-122		%REC	215940	1	11/16/2015 21:44	SH

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:** 20-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-107D
Project Name:	BFEL-Atlanta	**Collection Date:**	11/12/2015 3:50:00 PM
Lab ID:	1511C39-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
1,4-Dioxane	BRL	150		ug/L	215997	1	11/17/2015 01:27	NP
2-Butanone	BRL	50		ug/L	215997	1	11/17/2015 01:27	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215997	1	11/17/2015 01:27	NP
Acetone	BRL	50		ug/L	215997	1	11/17/2015 01:27	NP
Benzene	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
Carbon disulfide	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
Carbon tetrachloride	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
Chlorobenzene	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
Chloroethane	BRL	10		ug/L	215997	1	11/17/2015 01:27	NP
Chloroform	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
Chloromethane	BRL	10		ug/L	215997	1	11/17/2015 01:27	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
Cyclohexane	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
Ethylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
Isobutyl Alcohol	BRL	200		ug/L	215997	1	11/17/2015 01:27	NP
Isopropylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
Methylene chloride	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
Naphthalene	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
Styrene	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
Tetrachloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
Tetrahydrofuran	BRL	10		ug/L	215997	1	11/17/2015 01:27	NP
Toluene	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
Trichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
Vinyl chloride	BRL	2.0		ug/L	215997	1	11/17/2015 01:27	NP
Xylenes, Total	BRL	5.0		ug/L	215997	1	11/17/2015 01:27	NP
Surr: 4-Bromofluorobenzene	96	70.7-125		%REC	215997	1	11/17/2015 01:27	NP
Surr: Dibromofluoromethane	106	82.2-120		%REC	215997	1	11/17/2015 01:27	NP
Surr: Toluene-d8	97.3	81.8-120		%REC	215997	1	11/17/2015 01:27	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 20-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-107D
Project Name:	BFEL-Atlanta	**Collection Date:**	11/12/2015 3:50:00 PM
Lab ID:	1511C39-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215889	1	11/16/2015 22:52	JS
Copper	3.59	2.00		ug/L	215889	1	11/16/2015 22:52	JS
Lead	BRL	1.00		ug/L	215889	1	11/16/2015 22:52	JS
Zinc	11.7	10.0		ug/L	215889	1	11/16/2015 22:52	JS
ION SCAN SW9056A								
Nitrate	3.2	0.25		mg/L	R304641	1	11/13/2015 15:37	JW
Sulfate	160	10		mg/L	R304641	10	11/13/2015 18:40	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215870	1	11/14/2015 03:00	JS
Copper	2.07	2.00		ug/L	215870	1	11/14/2015 03:00	JS
Lead	BRL	1.00		ug/L	215870	1	11/14/2015 03:00	JS
Zinc	BRL	10.0		ug/L	215870	1	11/14/2015 03:00	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	215940	1	11/16/2015 22:03	SH
4,4´-DDE	BRL	0.10		ug/L	215940	1	11/16/2015 22:03	SH
4,4´-DDT	BRL	0.10		ug/L	215940	1	11/16/2015 22:03	SH
alpha-BHC	BRL	0.050		ug/L	215940	1	11/16/2015 22:03	SH
alpha-Chlordane	BRL	0.050		ug/L	215940	1	11/16/2015 22:03	SH
beta-BHC	BRL	0.050		ug/L	215940	1	11/16/2015 22:03	SH
delta-BHC	BRL	0.050		ug/L	215940	1	11/16/2015 22:03	SH
Dieldrin	BRL	0.10		ug/L	215940	1	11/16/2015 22:03	SH
gamma-BHC	BRL	0.050		ug/L	215940	1	11/16/2015 22:03	SH
gamma-Chlordane	BRL	0.050		ug/L	215940	1	11/16/2015 22:03	SH
Heptachlor	BRL	0.050		ug/L	215940	1	11/16/2015 22:03	SH
Methoxychlor	BRL	0.50		ug/L	215940	1	11/16/2015 22:03	SH
Toxaphene	BRL	5.0		ug/L	215940	1	11/16/2015 22:03	SH
Surr: Decachlorobiphenyl	66.9	14.5-127		%REC	215940	1	11/16/2015 22:03	SH
Surr: Tetrachloro-m-xylene	84.8	20.9-122		%REC	215940	1	11/16/2015 22:03	SH

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:** 20-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-22
Project Name:	BFEL-Atlanta	**Collection Date:**	11/12/2015 1:45:00 PM
Lab ID:	1511C39-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
1,4-Dioxane	BRL	150		ug/L	215997	1	11/17/2015 01:51	NP
2-Butanone	BRL	50		ug/L	215997	1	11/17/2015 01:51	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215997	1	11/17/2015 01:51	NP
Acetone	BRL	50		ug/L	215997	1	11/17/2015 01:51	NP
Benzene	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
Carbon disulfide	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
Carbon tetrachloride	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
Chlorobenzene	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
Chloroethane	BRL	10		ug/L	215997	1	11/17/2015 01:51	NP
Chloroform	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
Chloromethane	BRL	10		ug/L	215997	1	11/17/2015 01:51	NP
cis-1,2-Dichloroethene	8.1	5.0		ug/L	215997	1	11/17/2015 01:51	NP
Cyclohexane	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
Ethylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
Isobutyl Alcohol	BRL	200		ug/L	215997	1	11/17/2015 01:51	NP
Isopropylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
Methylene chloride	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
Naphthalene	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
Styrene	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
Tetrachloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
Tetrahydrofuran	BRL	10		ug/L	215997	1	11/17/2015 01:51	NP
Toluene	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
Trichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
Vinyl chloride	BRL	2.0		ug/L	215997	1	11/17/2015 01:51	NP
Xylenes, Total	BRL	5.0		ug/L	215997	1	11/17/2015 01:51	NP
Surr: 4-Bromofluorobenzene	99.8	70.7-125		%REC	215997	1	11/17/2015 01:51	NP
Surr: Dibromofluoromethane	101	82.2-120		%REC	215997	1	11/17/2015 01:51	NP
Surr: Toluene-d8	96.6	81.8-120		%REC	215997	1	11/17/2015 01:51	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 20-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-22
Project Name:	BFEL-Atlanta	**Collection Date:**	11/12/2015 1:45:00 PM
Lab ID:	1511C39-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215889	1	11/16/2015 22:58	JS
Copper	1580	2.00		ug/L	215889	1	11/16/2015 22:58	JS
Lead	3.20	1.00		ug/L	215889	1	11/16/2015 22:58	JS
Zinc	2810	10.0		ug/L	215889	1	11/16/2015 22:58	JS
ION SCAN SW9056A								
Nitrate	2.8	0.25		mg/L	R304641	1	11/13/2015 15:52	JW
Sulfate	360	20		mg/L	R304641	20	11/13/2015 18:56	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215870	1	11/14/2015 03:06	JS
Copper	1810	2.00		ug/L	215870	1	11/14/2015 03:06	JS
Lead	2.73	1.00		ug/L	215870	1	11/14/2015 03:06	JS
Zinc	2960	10.0		ug/L	215870	1	11/14/2015 03:06	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	215940	1	11/16/2015 22:21	SH
4,4´-DDE	BRL	0.10		ug/L	215940	1	11/16/2015 22:21	SH
4,4´-DDT	BRL	0.10		ug/L	215940	1	11/16/2015 22:21	SH
alpha-BHC	0.17	0.050		ug/L	215940	1	11/16/2015 22:21	SH
alpha-Chlordane	BRL	0.050		ug/L	215940	1	11/16/2015 22:21	SH
beta-BHC	0.41	0.050		ug/L	215940	1	11/16/2015 22:21	SH
delta-BHC	0.052	0.050		ug/L	215940	1	11/16/2015 22:21	SH
Dieldrin	BRL	0.10		ug/L	215940	1	11/16/2015 22:21	SH
gamma-BHC	0.16	0.050		ug/L	215940	1	11/16/2015 22:21	SH
gamma-Chlordane	BRL	0.050		ug/L	215940	1	11/16/2015 22:21	SH
Heptachlor	BRL	0.050		ug/L	215940	1	11/16/2015 22:21	SH
Methoxychlor	BRL	0.50		ug/L	215940	1	11/16/2015 22:21	SH
Toxaphene	BRL	5.0		ug/L	215940	1	11/16/2015 22:21	SH
Surr: Decachlorobiphenyl	65.2	14.5-127		%REC	215940	1	11/16/2015 22:21	SH
Surr: Tetrachloro-m-xylene	92.9	20.9-122		%REC	215940	1	11/16/2015 22:21	SH

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:** 20-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-116
Project Name:	BFEL-Atlanta	**Collection Date:**	11/12/2015 10:15:00 AM
Lab ID:	1511C39-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
1,4-Dioxane	BRL	150		ug/L	215997	1	11/17/2015 02:15	NP
2-Butanone	BRL	50		ug/L	215997	1	11/17/2015 02:15	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215997	1	11/17/2015 02:15	NP
Acetone	BRL	50		ug/L	215997	1	11/17/2015 02:15	NP
Benzene	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
Carbon disulfide	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
Carbon tetrachloride	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
Chlorobenzene	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
Chloroethane	BRL	10		ug/L	215997	1	11/17/2015 02:15	NP
Chloroform	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
Chloromethane	BRL	10		ug/L	215997	1	11/17/2015 02:15	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
Cyclohexane	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
Ethylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
Isobutyl Alcohol	BRL	200		ug/L	215997	1	11/17/2015 02:15	NP
Isopropylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
Methylene chloride	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
Naphthalene	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
Styrene	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
Tetrachloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
Tetrahydrofuran	BRL	10		ug/L	215997	1	11/17/2015 02:15	NP
Toluene	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
Trichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
Vinyl chloride	BRL	2.0		ug/L	215997	1	11/17/2015 02:15	NP
Xylenes, Total	BRL	5.0		ug/L	215997	1	11/17/2015 02:15	NP
Surr: 4-Bromofluorobenzene	89.7	70.7-125		%REC	215997	1	11/17/2015 02:15	NP
Surr: Dibromofluoromethane	105	82.2-120		%REC	215997	1	11/17/2015 02:15	NP
Surr: Toluene-d8	97.9	81.8-120		%REC	215997	1	11/17/2015 02:15	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 20-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-116
Project Name:	BFEL-Atlanta	**Collection Date:**	11/12/2015 10:15:00 AM
Lab ID:	1511C39-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	BRL	5.00		ug/L	215889	1	11/16/2015 23:04	JS
Copper	1650	2.00		ug/L	215889	1	11/16/2015 23:04	JS
Lead	2.73	1.00		ug/L	215889	1	11/16/2015 23:04	JS
Zinc	3860	10.0		ug/L	215889	1	11/16/2015 23:04	JS
ION SCAN SW9056A								
Nitrate	37	5.0		mg/L	R304641	20	11/13/2015 19:11	JW
Sulfate	430	20		mg/L	R304641	20	11/13/2015 19:11	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	BRL	5.00		ug/L	215870	1	11/14/2015 03:12	JS
Copper	1680	2.00		ug/L	215870	1	11/14/2015 03:12	JS
Lead	2.55	1.00		ug/L	215870	1	11/14/2015 03:12	JS
Zinc	4040	10.0		ug/L	215870	1	11/14/2015 03:12	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**			
4,4´-DDD	BRL	0.10		ug/L	215940	1	11/16/2015 22:40	SH
4,4´-DDE	BRL	0.10		ug/L	215940	1	11/16/2015 22:40	SH
4,4´-DDT	BRL	0.10		ug/L	215940	1	11/16/2015 22:40	SH
alpha-BHC	BRL	0.050		ug/L	215940	1	11/16/2015 22:40	SH
alpha-Chlordane	BRL	0.050		ug/L	215940	1	11/16/2015 22:40	SH
beta-BHC	0.29	0.050		ug/L	215940	1	11/16/2015 22:40	SH
delta-BHC	BRL	0.050		ug/L	215940	1	11/16/2015 22:40	SH
Dieldrin	BRL	0.10		ug/L	215940	1	11/16/2015 22:40	SH
gamma-BHC	BRL	0.050		ug/L	215940	1	11/16/2015 22:40	SH
gamma-Chlordane	BRL	0.050		ug/L	215940	1	11/16/2015 22:40	SH
Heptachlor	BRL	0.050		ug/L	215940	1	11/16/2015 22:40	SH
Methoxychlor	BRL	0.50		ug/L	215940	1	11/16/2015 22:40	SH
Toxaphene	BRL	5.0		ug/L	215940	1	11/16/2015 22:40	SH
Surr: Decachlorobiphenyl	56.9	14.5-127		%REC	215940	1	11/16/2015 22:40	SH
Surr: Tetrachloro-m-xylene	77.8	20.9-122		%REC	215940	1	11/16/2015 22:40	SH

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:** 20-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-105
Project Name:	BFEL-Atlanta	**Collection Date:**	11/12/2015 4:00:00 PM
Lab ID:	1511C39-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215889	1	11/16/2015 23:11	JS
Copper	4.55	2.00		ug/L	215889	1	11/17/2015 15:25	JS
Lead	BRL	1.00		ug/L	215889	1	11/16/2015 23:11	JS
Zinc	13.2	10.0		ug/L	215889	1	11/17/2015 15:25	JS
ION SCAN SW9056A								
Nitrate	0.37	0.25		mg/L	R304641	1	11/13/2015 16:22	JW
Sulfate	110	5.0		mg/L	R304641	5	11/13/2015 19:26	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215870	1	11/14/2015 03:19	JS
Copper	3.43	2.00		ug/L	215870	1	11/16/2015 15:43	JS
Lead	BRL	1.00		ug/L	215870	1	11/14/2015 03:19	JS
Zinc	10.7	10.0		ug/L	215870	1	11/16/2015 15:43	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	215940	1	11/16/2015 22:58	SH
4,4´-DDE	BRL	0.10		ug/L	215940	1	11/16/2015 22:58	SH
4,4´-DDT	BRL	0.10		ug/L	215940	1	11/16/2015 22:58	SH
alpha-BHC	BRL	0.050		ug/L	215940	1	11/16/2015 22:58	SH
alpha-Chlordane	BRL	0.050		ug/L	215940	1	11/16/2015 22:58	SH
beta-BHC	BRL	0.050		ug/L	215940	1	11/16/2015 22:58	SH
delta-BHC	BRL	0.050		ug/L	215940	1	11/16/2015 22:58	SH
Dieldrin	BRL	0.10		ug/L	215940	1	11/16/2015 22:58	SH
gamma-BHC	BRL	0.050		ug/L	215940	1	11/16/2015 22:58	SH
gamma-Chlordane	BRL	0.050		ug/L	215940	1	11/16/2015 22:58	SH
Heptachlor	BRL	0.050		ug/L	215940	1	11/16/2015 22:58	SH
Methoxychlor	BRL	0.50		ug/L	215940	1	11/16/2015 22:58	SH
Toxaphene	BRL	5.0		ug/L	215940	1	11/16/2015 22:58	SH
Surr: Decachlorobiphenyl	57.4	14.5-127		%REC	215940	1	11/16/2015 22:58	SH
Surr: Tetrachloro-m-xylene	85.9	20.9-122		%REC	215940	1	11/16/2015 22:58	SH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 20-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-104D
Project Name:	BFEL-Atlanta	**Collection Date:**	11/12/2015 4:10:00 PM
Lab ID:	1511C39-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
1,1,2,2-Tetrachloroethane	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
1,1,2-Trichloroethane	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
1,1-Dichloroethane	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
1,1-Dichloroethene	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
1,1-Dichloropropene	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
1,2,4-Trichlorobenzene	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
1,2-Dichloroethane	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
1,2-Dichloropropane	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
1,4-Dioxane	BRL	150000		ug/L	215997	1000	11/16/2015 22:42	NP
2-Butanone	350000	50000		ug/L	215997	1000	11/16/2015 22:42	NP
4-Methyl-2-pentanone	110000	10000		ug/L	215997	1000	11/16/2015 22:42	NP
Acetone	390000	50000		ug/L	215997	1000	11/16/2015 22:42	NP
Benzene	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
Carbon disulfide	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
Carbon tetrachloride	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
Chlorobenzene	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
Chloroethane	BRL	10000		ug/L	215997	1000	11/16/2015 22:42	NP
Chloroform	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
Chloromethane	BRL	10000		ug/L	215997	1000	11/16/2015 22:42	NP
cis-1,2-Dichloroethene	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
Cyclohexane	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
Ethylbenzene	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
Isobutyl Alcohol	BRL	200000		ug/L	215997	1000	11/16/2015 22:42	NP
Isopropylbenzene	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
Methylene chloride	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
Naphthalene	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
Styrene	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
Tetrachloroethene	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
Tetrahydrofuran	57000	10000		ug/L	215997	1000	11/16/2015 22:42	NP
Toluene	66000	5000		ug/L	215997	1000	11/16/2015 22:42	NP
trans-1,2-Dichloroethene	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
Trichloroethene	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
Trichlorofluoromethane	BRL	5000		ug/L	215997	1000	11/16/2015 22:42	NP
Vinyl chloride	BRL	2000		ug/L	215997	1000	11/16/2015 22:42	NP
Xylenes, Total	22000	5000		ug/L	215997	1000	11/16/2015 22:42	NP
Surr: 4-Bromofluorobenzene	112	70.7-125		%REC	215997	1000	11/16/2015 22:42	NP
Surr: Dibromofluoromethane	103	82.2-120		%REC	215997	1000	11/16/2015 22:42	NP
Surr: Toluene-d8	102	81.8-120		%REC	215997	1000	11/16/2015 22:42	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

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:** 20-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-104D
Project Name:	BFEL-Atlanta	**Collection Date:**	11/12/2015 4:10:00 PM
Lab ID:	1511C39-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215889	1	11/16/2015 23:17	JS
Copper	3.50	2.00		ug/L	215889	1	11/16/2015 23:17	JS
Lead	BRL	1.00		ug/L	215889	1	11/16/2015 23:17	JS
Zinc	10.3	10.0		ug/L	215889	1	11/16/2015 23:17	JS
ION SCAN SW9056A								
Nitrate	BRL	5.0		mg/L	R304641	20	11/13/2015 19:41	JW
Sulfate	BRL	20		mg/L	R304641	20	11/13/2015 19:41	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215870	1	11/14/2015 03:25	JS
Copper	BRL	2.00		ug/L	215870	1	11/16/2015 18:41	JS
Lead	BRL	1.00		ug/L	215870	1	11/14/2015 03:25	JS
Zinc	BRL	10.0		ug/L	215870	1	11/14/2015 03:25	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	215940	1	11/17/2015 00:31	SH
4,4´-DDE	BRL	0.10		ug/L	215940	1	11/17/2015 00:31	SH
4,4´-DDT	BRL	0.10		ug/L	215940	1	11/17/2015 00:31	SH
alpha-BHC	BRL	0.050		ug/L	215940	1	11/17/2015 00:31	SH
alpha-Chlordane	BRL	0.050		ug/L	215940	1	11/17/2015 00:31	SH
beta-BHC	BRL	0.050		ug/L	215940	1	11/17/2015 00:31	SH
delta-BHC	BRL	0.050		ug/L	215940	1	11/17/2015 00:31	SH
Dieldrin	BRL	0.10		ug/L	215940	1	11/17/2015 00:31	SH
gamma-BHC	BRL	0.050		ug/L	215940	1	11/17/2015 00:31	SH
gamma-Chlordane	BRL	0.050		ug/L	215940	1	11/17/2015 00:31	SH
Heptachlor	BRL	0.050		ug/L	215940	1	11/17/2015 00:31	SH
Methoxychlor	BRL	0.50		ug/L	215940	1	11/17/2015 00:31	SH
Toxaphene	BRL	5.0		ug/L	215940	1	11/17/2015 00:31	SH
Surr: Decachlorobiphenyl	61.4	14.5-127		%REC	215940	1	11/17/2015 00:31	SH
Surr: Tetrachloro-m-xylene	101	20.9-122		%REC	215940	1	11/17/2015 00:31	SH

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:** 20-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	DUP-1
Project Name:	BFEL-Atlanta	**Collection Date:**	11/12/2015 12:00:00 PM
Lab ID:	1511C39-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
1,1,2,2-Tetrachloroethane	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
1,1,2-Trichloroethane	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
1,1-Dichloroethane	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
1,1-Dichloroethene	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
1,1-Dichloropropene	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
1,2,4-Trichlorobenzene	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
1,2-Dichloroethane	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
1,2-Dichloropropane	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
1,4-Dioxane	BRL	150000		ug/L	215997	1000	11/16/2015 23:06	NP
2-Butanone	340000	50000		ug/L	215997	1000	11/16/2015 23:06	NP
4-Methyl-2-pentanone	110000	10000		ug/L	215997	1000	11/16/2015 23:06	NP
Acetone	400000	50000		ug/L	215997	1000	11/16/2015 23:06	NP
Benzene	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
Carbon disulfide	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
Carbon tetrachloride	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
Chlorobenzene	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
Chloroethane	BRL	10000		ug/L	215997	1000	11/16/2015 23:06	NP
Chloroform	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
Chloromethane	BRL	10000		ug/L	215997	1000	11/16/2015 23:06	NP
cis-1,2-Dichloroethene	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
Cyclohexane	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
Ethylbenzene	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
Isobutyl Alcohol	BRL	200000		ug/L	215997	1000	11/16/2015 23:06	NP
Isopropylbenzene	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
Methylene chloride	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
Naphthalene	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
Styrene	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
Tetrachloroethene	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
Tetrahydrofuran	55000	10000		ug/L	215997	1000	11/16/2015 23:06	NP
Toluene	66000	5000		ug/L	215997	1000	11/16/2015 23:06	NP
trans-1,2-Dichloroethene	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
Trichloroethene	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
Trichlorofluoromethane	BRL	5000		ug/L	215997	1000	11/16/2015 23:06	NP
Vinyl chloride	BRL	2000		ug/L	215997	1000	11/16/2015 23:06	NP
Xylenes, Total	19000	5000		ug/L	215997	1000	11/16/2015 23:06	NP
Surr: 4-Bromofluorobenzene	99.3	70.7-125		%REC	215997	1000	11/16/2015 23:06	NP
Surr: Dibromofluoromethane	101	82.2-120		%REC	215997	1000	11/16/2015 23:06	NP
Surr: Toluene-d8	102	81.8-120		%REC	215997	1000	11/16/2015 23:06	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Amec Foster Work Order Number 1511C39

Checklist completed by [signature] 11/12/15
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 3.7 Cooler #2 4.1 Cooler #3 4.3 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.

Analytical Environmental Services, Inc

Date: 20-Nov-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1511C39

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1511C39-001A	TB-03	11/12/2015 10:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/16/2015 8:00:00 PM	11/16/2015
1511C39-002A	TW-2	11/12/2015 11:05:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2015 8:00:00 PM	11/17/2015
1511C39-002B	TW-2	11/12/2015 11:05:00AM	Groundwater	APPENDIX II CHLORINATED PESTICIDE		11/16/2015 12:00:00 PM	11/16/2015
1511C39-002B	TW-2	11/12/2015 11:05:00AM	Groundwater	APPENDIX II CHLORINATED PESTICIDE		11/16/2015 12:00:00 PM	11/18/2015
1511C39-002B	TW-2	11/12/2015 11:05:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00 PM	11/16/2015
1511C39-002C	TW-2	11/12/2015 11:05:00AM	Groundwater	Total Metals by ICP/MS		11/13/2015 2:45:00 PM	11/16/2015
1511C39-002D	TW-2	11/12/2015 11:05:00AM	Groundwater	Dissolved Metals by ICP/MS		11/13/2015 12:00:00 PM	11/14/2015
1511C39-002E	TW-2	11/12/2015 11:05:00AM	Groundwater	ION SCAN			11/13/2015
1511C39-003A	TW-3	11/12/2015 1:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2015 8:00:00 PM	11/17/2015
1511C39-003B	TW-3	11/12/2015 1:50:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00 PM	11/16/2015
1511C39-003B	TW-3	11/12/2015 1:50:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00 PM	11/18/2015
1511C39-003C	TW-3	11/12/2015 1:50:00PM	Groundwater	Total Metals by ICP/MS		11/13/2015 2:45:00 PM	11/16/2015
1511C39-003D	TW-3	11/12/2015 1:50:00PM	Groundwater	Dissolved Metals by ICP/MS		11/13/2015 12:00:00 PM	11/14/2015
1511C39-003E	TW-3	11/12/2015 1:50:00PM	Groundwater	ION SCAN			11/13/2015
1511C39-004A	TW-4	11/12/2015 3:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2015 8:00:00 PM	11/17/2015
1511C39-004B	TW-4	11/12/2015 3:10:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00 PM	11/16/2015
1511C39-004B	TW-4	11/12/2015 3:10:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00 PM	11/18/2015
1511C39-004C	TW-4	11/12/2015 3:10:00PM	Groundwater	Total Metals by ICP/MS		11/13/2015 2:45:00 PM	11/16/2015
1511C39-004D	TW-4	11/12/2015 3:10:00PM	Groundwater	Dissolved Metals by ICP/MS		11/13/2015 12:00:00 PM	11/14/2015
1511C39-004E	TW-4	11/12/2015 3:10:00PM	Groundwater	ION SCAN			11/13/2015
1511C39-005A	MW-107D	11/12/2015 3:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2015 8:00:00 PM	11/17/2015
1511C39-005B	MW-107D	11/12/2015 3:50:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00 PM	11/16/2015
1511C39-005C	MW-107D	11/12/2015 3:50:00PM	Groundwater	Total Metals by ICP/MS		11/13/2015 2:45:00 PM	11/16/2015
1511C39-005D	MW-107D	11/12/2015 3:50:00PM	Groundwater	Dissolved Metals by ICP/MS		11/13/2015 12:00:00 PM	11/14/2015
1511C39-005E	MW-107D	11/12/2015 3:50:00PM	Groundwater	ION SCAN			11/13/2015
1511C39-006A	MW-22	11/12/2015 1:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2015 8:00:00 PM	11/17/2015
1511C39-006B	MW-22	11/12/2015 1:45:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00 PM	11/16/2015
1511C39-006C	MW-22	11/12/2015 1:45:00PM	Groundwater	Total Metals by ICP/MS		11/13/2015 2:45:00 PM	11/16/2015
1511C39-006D	MW-22	11/12/2015 1:45:00PM	Groundwater	Dissolved Metals by ICP/MS		11/13/2015 12:00:00 PM	11/14/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1511C39

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1511C39-006E	MW-22	11/12/2015 1:45:00PM	Groundwater	ION SCAN			11/13/2015
1511C39-007A	MW-116	11/12/2015 10:15:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2015 8:00:00 PM	11/17/2015
1511C39-007B	MW-116	11/12/2015 10:15:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00 PM	11/16/2015
1511C39-007C	MW-116	11/12/2015 10:15:00AM	Groundwater	Total Metals by ICP/MS		11/13/2015 2:45:00 PM	11/16/2015
1511C39-007D	MW-116	11/12/2015 10:15:00AM	Groundwater	Dissolved Metals by ICP/MS		11/13/2015 12:00:00 PM	11/14/2015
1511C39-007E	MW-116	11/12/2015 10:15:00AM	Groundwater	ION SCAN			11/13/2015
1511C39-008A	MW-105	11/12/2015 4:00:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00 PM	11/16/2015
1511C39-008B	MW-105	11/12/2015 4:00:00PM	Groundwater	Total Metals by ICP/MS		11/13/2015 2:45:00 PM	11/16/2015
1511C39-008B	MW-105	11/12/2015 4:00:00PM	Groundwater	Total Metals by ICP/MS		11/13/2015 2:45:00 PM	11/17/2015
1511C39-008C	MW-105	11/12/2015 4:00:00PM	Groundwater	Dissolved Metals by ICP/MS		11/13/2015 12:00:00 PM	11/14/2015
1511C39-008C	MW-105	11/12/2015 4:00:00PM	Groundwater	Dissolved Metals by ICP/MS		11/13/2015 12:00:00 PM	11/16/2015
1511C39-008D	MW-105	11/12/2015 4:00:00PM	Groundwater	ION SCAN			11/13/2015
1511C39-009A	MW-104D	11/12/2015 4:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2015 8:00:00 PM	11/16/2015
1511C39-009B	MW-104D	11/12/2015 4:10:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00 PM	11/17/2015
1511C39-009C	MW-104D	11/12/2015 4:10:00PM	Groundwater	Total Metals by ICP/MS		11/13/2015 2:45:00 PM	11/16/2015
1511C39-009D	MW-104D	11/12/2015 4:10:00PM	Groundwater	Dissolved Metals by ICP/MS		11/13/2015 12:00:00 PM	11/14/2015
1511C39-009D	MW-104D	11/12/2015 4:10:00PM	Groundwater	Dissolved Metals by ICP/MS		11/13/2015 12:00:00 PM	11/16/2015
1511C39-009E	MW-104D	11/12/2015 4:10:00PM	Groundwater	ION SCAN			11/13/2015
1511C39-010A	DUP-1	11/12/2015 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2015 8:00:00 PM	11/16/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511C39

ANALYTICAL QC SUMMARY REPORT

BatchID: 215870

Sample ID: **MB-215870** Client ID: Units: **ug/L** Prep Date: **11/13/2015** Run No: **304421**
SampleType: **MBLK** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215870** Analysis Date: **11/13/2015** Seq No: **6517983**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00									
Copper	BRL	2.00									
Lead	BRL	1.00									
Zinc	BRL	10.0									

Sample ID: **LCS-215870** Client ID: Units: **ug/L** Prep Date: **11/13/2015** Run No: **304421**
SampleType: **LCS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215870** Analysis Date: **11/13/2015** Seq No: **6517984**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	92.67	5.00	100.0	0.3920	92.3	80	120				
Copper	92.72	2.00	100.0		92.7	80	120				
Lead	94.64	1.00	100.0		94.6	80	120				
Zinc	93.81	10.0	100.0		93.8	80	120				

Sample ID: **1511963-004EMS** Client ID: Units: **ug/L** Prep Date: **11/13/2015** Run No: **304421**
SampleType: **MS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215870** Analysis Date: **11/14/2015** Seq No: **6517986**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	79.00	5.00	100.0	1.959	77.0	75	125				
Copper	80.42	2.00	100.0	1.118	79.3	75	125				
Lead	96.01	1.00	100.0	1.313	94.7	75	125				
Zinc	1129	10.0	100.0	1050	79.0	75	125				

Sample ID: **1511963-004EMSD** Client ID: Units: **ug/L** Prep Date: **11/13/2015** Run No: **304421**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215870** Analysis Date: **11/14/2015** Seq No: **6517987**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	80.73	5.00	100.0	1.959	78.8	75	125	79.00	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: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511C39

ANALYTICAL QC SUMMARY REPORT

BatchID: 215870

Sample ID: **1511963-004EMSD** Client ID:
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A**
Units: **ug/L** Prep Date: **11/13/2015** Run No: **304421**
BatchID: **215870** Analysis Date: **11/14/2015** Seq No: **6517987**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	79.66	2.00	100.0	1.118	78.5	75	125	80.42	0.950	20	
Lead	95.40	1.00	100.0	1.313	94.1	75	125	96.01	0.637	20	
Zinc	1125	10.0	100.0	1050	75.0	75	125	1129	0.355	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511C39

ANALYTICAL QC SUMMARY REPORT

BatchID: 215889

Sample ID: **MB-215889** Client ID: Units: **ug/L** Prep Date: **11/13/2015** Run No: **304510**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **215889** Analysis Date: **11/16/2015** Seq No: **6521474**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00									
Copper	BRL	2.00									
Lead	BRL	1.00									
Zinc	BRL	10.0									

Sample ID: **LCS-215889** Client ID: Units: **ug/L** Prep Date: **11/13/2015** Run No: **304510**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **215889** Analysis Date: **11/16/2015** Seq No: **6521475**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	95.06	5.00	100.0	0.3760	94.7	80	120				
Copper	87.48	2.00	100.0		87.5	80	120				
Lead	92.92	1.00	100.0		92.9	80	120				
Zinc	93.66	10.0	100.0		93.7	80	120				

Sample ID: **1511B08-002CMS** Client ID: Units: **ug/L** Prep Date: **11/13/2015** Run No: **304510**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **215889** Analysis Date: **11/16/2015** Seq No: **6521481**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	91.64	5.00	100.0	1.756	89.9	75	125				
Copper	189.6	2.00	100.0	109.9	79.7	75	125				
Lead	94.60	1.00	100.0	1.158	93.4	75	125				
Zinc	474.3	10.0	100.0	386.3	88.0	75	125				

Sample ID: **1511B08-002CMSD** Client ID: Units: **ug/L** Prep Date: **11/13/2015** Run No: **304510**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **215889** Analysis Date: **11/16/2015** Seq No: **6521484**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	93.21	5.00	100.0	1.756	91.5	75	125	91.64	1.70	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511C39

ANALYTICAL QC SUMMARY REPORT

BatchID: 215889

Sample ID: **1511B08-002CMSD** Client ID:
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A**
Units: **ug/L** Prep Date: **11/13/2015** Run No: **304510**
BatchID: **215889** Analysis Date: **11/16/2015** Seq No: **6521484**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	189.7	2.00	100.0	109.9	79.8	75	125	189.6	0.053	20	
Lead	95.41	1.00	100.0	1.158	94.3	75	125	94.60	0.853	20	
Zinc	478.2	10.0	100.0	386.3	91.9	75	125	474.3	0.819	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511C39

ANALYTICAL QC SUMMARY REPORT

BatchID: 215940

Sample ID: **MB-215940** Client ID: Units: **ug/L** Prep Date: **11/16/2015** Run No: **304710**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **215940** Analysis Date: **11/16/2015** Seq No: **6525241**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDD	BRL	0.10									
4,4´-DDE	BRL	0.10									
4,4´-DDT	BRL	0.10									
alpha-BHC	BRL	0.050									
alpha-Chlordane	BRL	0.050									
beta-BHC	BRL	0.050									
delta-BHC	BRL	0.050									
Dieldrin	BRL	0.10									
gamma-BHC	BRL	0.050									
gamma-Chlordane	BRL	0.050									
Heptachlor	BRL	0.050									
Methoxychlor	BRL	0.50									
Toxaphene	BRL	5.0									
Surr: Decachlorobiphenyl	0.2872	0	0.5000		57.4	14.5	127				
Surr: Tetrachloro-m-xylene	0.3569	0	0.5000		71.4	20.9	122				

Sample ID: **LCS-215940** Client ID: Units: **ug/L** Prep Date: **11/16/2015** Run No: **304710**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **215940** Analysis Date: **11/16/2015** Seq No: **6525242**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.9161	0.10	1.000		91.6	56.2	135				
Dieldrin	0.9390	0.10	1.000		93.9	62.3	129				
gamma-BHC	0.8664	0.050	1.000		86.6	58.5	127				
Heptachlor	0.7966	0.050	1.000		79.7	50.7	132				
Surr: Decachlorobiphenyl	0.3070	0	0.5000		61.4	14.5	127				
Surr: Tetrachloro-m-xylene	0.3628	0	0.5000		72.6	20.9	122				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511C39

ANALYTICAL QC SUMMARY REPORT

BatchID: 215940

Sample ID: **1511C39-002BMS**	Client ID: **TW-2**	Units: **ug/L**	Prep Date: **11/16/2015**	Run No: **304710**
SampleType: **MS**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**	BatchID: **215940**	Analysis Date: **11/16/2015**	Seq No: **6525244**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.8805	0.10	1.000	0.01504	86.6	37.9	153				
Dieldrin	0.9286	0.10	1.000	0.02885	90.0	48.7	139				
gamma-BHC	0.8442	0.050	1.000	0.008000	83.6	52	139				
Heptachlor	0.8027	0.050	1.000		80.3	36.3	145				
Surr: Decachlorobiphenyl	0.3720	0	0.5000		74.4	14.5	127				
Surr: Tetrachloro-m-xylene	0.3131	0	0.5000		62.6	20.9	122				

Sample ID: **1511C39-002BMSD**	Client ID: **TW-2**	Units: **ug/L**	Prep Date: **11/16/2015**	Run No: **304710**
SampleType: **MSD**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**	BatchID: **215940**	Analysis Date: **11/16/2015**	Seq No: **6525245**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.9271	0.10	1.000	0.01504	91.2	37.9	153	0.8805	5.15	33.7	
Dieldrin	0.9740	0.10	1.000	0.02885	94.5	48.7	139	0.9286	4.78	27.1	
gamma-BHC	0.9056	0.050	1.000	0.008000	89.8	52	139	0.8442	7.01	29.8	
Heptachlor	0.8739	0.050	1.000		87.4	36.3	145	0.8027	8.49	33.3	
Surr: Decachlorobiphenyl	0.3931	0	0.5000		78.6	14.5	127	0.3720	0	0	
Surr: Tetrachloro-m-xylene	0.3737	0	0.5000		74.7	20.9	122	0.3131	0	0	

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511C39

ANALYTICAL QC SUMMARY REPORT

BatchID: 215997

Sample ID: **MB-215997** Client ID: Units: **ug/L** Prep Date: **11/16/2015** Run No: **304506**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **215997** Analysis Date: **11/16/2015** Seq No: **6520913**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,1-Dichloropropene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,4-Dioxane	BRL	150									
2-Butanone	BRL	50									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
Cyclohexane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Isobutyl Alcohol	BRL	200									
Isopropylbenzene	BRL	5.0									
Methylene chloride	BRL	5.0									
Naphthalene	BRL	5.0									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511C39

ANALYTICAL QC SUMMARY REPORT

BatchID: 215997

Sample ID: **MB-215997** Client ID: Units: **ug/L** Prep Date: **11/16/2015** Run No: **304506**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **215997** Analysis Date: **11/16/2015** Seq No: **6520913**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Tetrahydrofuran	BRL	10									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	48.35	0	50.00		96.7	70.7	125				
Surr: Dibromofluoromethane	51.19	0	50.00		102	82.2	120				
Surr: Toluene-d8	48.24	0	50.00		96.5	81.8	120				

Sample ID: **LCS-215997** Client ID: Units: **ug/L** Prep Date: **11/16/2015** Run No: **304506**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **215997** Analysis Date: **11/16/2015** Seq No: **6520908**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	55.11	5.0	50.00		110	64.2	137				
Benzene	49.10	5.0	50.00		98.2	72.8	128				
Chlorobenzene	48.43	5.0	50.00		96.9	72.3	126				
Toluene	47.64	5.0	50.00		95.3	74.9	127				
Trichloroethene	52.51	5.0	50.00		105	70.5	134				
Surr: 4-Bromofluorobenzene	48.24	0	50.00		96.5	70.7	125				
Surr: Dibromofluoromethane	49.58	0	50.00		99.2	82.2	120				
Surr: Toluene-d8	47.91	0	50.00		95.8	81.8	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511C39

ANALYTICAL QC SUMMARY REPORT

BatchID: 215997

Sample ID: **1511C39-010AMS** Client ID: **DUP-1** Units: **ug/L** Prep Date: **11/16/2015** Run No: **304506**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **215997** Analysis Date: **11/16/2015** Seq No: **6520920**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	58230	5000	50000		116	60.5	156				
Benzene	53000	5000	50000		106	70	135				
Chlorobenzene	52290	5000	50000		105	70.5	132				
Toluene	117900	5000	50000	66470	103	70.5	137				
Trichloroethene	57480	5000	50000		115	71.8	139				
Surr: 4-Bromofluorobenzene	47950	0	50000		95.9	70.7	125				
Surr: Dibromofluoromethane	50610	0	50000		101	82.2	120				
Surr: Toluene-d8	50460	0	50000		101	81.8	120				

Sample ID: **1511C39-010AMSD** Client ID: **DUP-1** Units: **ug/L** Prep Date: **11/16/2015** Run No: **304506**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **215997** Analysis Date: **11/16/2015** Seq No: **6520921**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	57010	5000	50000		114	60.5	156	58230	2.12	20	
Benzene	52940	5000	50000		106	70	135	53000	0.113	20	
Chlorobenzene	51710	5000	50000		103	70.5	132	52290	1.12	20	
Toluene	118600	5000	50000	66470	104	70.5	137	117900	0.626	20	
Trichloroethene	56570	5000	50000		113	71.8	139	57480	1.60	20	
Surr: 4-Bromofluorobenzene	49620	0	50000		99.2	70.7	125	47950	0	0	
Surr: Dibromofluoromethane	51270	0	50000		103	82.2	120	50610	0	0	
Surr: Toluene-d8	51290	0	50000		103	81.8	120	50460	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511C39

ANALYTICAL QC SUMMARY REPORT

BatchID: R304641

Sample ID: **MB-R304641**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **304641**	
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**				BatchID: **R304641**		Analysis Date: **11/13/2015**		Seq No: **6523952**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R304641**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **304641**	
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**				BatchID: **R304641**		Analysis Date: **11/13/2015**		Seq No: **6523951**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.129	0.25	5.000		103	90	110				
Sulfate	25.91	1.0	25.00		104	90	110				

Sample ID: **1511C10-032AMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **304641**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R304641**		Analysis Date: **11/13/2015**		Seq No: **6523986**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	6.011	0.25	5.000	0.6716	107	90	110				
Sulfate	25.53	1.0	25.00		102	90	110				

Sample ID: **1511C10-036AMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **304641**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R304641**		Analysis Date: **11/13/2015**		Seq No: **6523989**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	13.66	0.50	10.00	3.274	104	90	110				
Sulfate	49.42	2.0	50.00		98.8	90	110				

Sample ID: **1511C10-032AMSD**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **304641**	
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**				BatchID: **R304641**		Analysis Date: **11/13/2015**		Seq No: **6523987**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	6.002	0.25	5.000	0.6716	107	90	110	6.011	0.161	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511C39

ANALYTICAL QC SUMMARY REPORT

BatchID: R304641

Sample ID: **1511C10-032AMSD** Client ID:
SampleType: **MSD** TestCode: **ION SCAN SW9056A**
Units: **mg/L** Prep Date: Run No: **304641**
BatchID: **R304641** Analysis Date: **11/13/2015** Seq No: **6523987**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	25.49	1.0	25.00		102	90	110	25.53	0.160	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.

November 23, 2015

Rhonda Quinn
AMEC E&I, Inc. -Kennesaw
1075 Big Shanty Rd NW
Kennesaw GA 30144

TEL: (770) 421-3400
FAX: (770) 421-3486

RE: BFEL-Atlanta

Dear Rhonda Quinn: Order No: 1511E04

Analytical Environmental Services, Inc. received 8 samples on 11/13/2015 4:46:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' 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 09/01/17.

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.

Ioana Pacurar

Ioana Pacurar
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: 1511504

Date: 11/13/15 Page 1 of 1

COMPANY: Amec Foster Wheeler
ADDRESS: 1075 Big Shanty Rd Ste 100 Kennesaw, GA 30144
PHONE: 770-421-3400
FAX: 770-421-3486
SAMPLED BY: D Howard/E Guillen/M Bowen
SIGNATURE: Daniel L Howard

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	* ANALYSIS REQUESTED: VOCs 8260	Pest 8081A	Tot Metals 6020	Diss Metals 6020	NO3 300.0/9056	PRESERVATION (See codes)	REMARKS	No # of Containers
1	TB-OH	11/13/15	0930	X		W						H+I: 2		2
2	MW-25		1110	X		GW	2	2	1	1	1			7
3	TW-8		1242	X		GW	2	2	1	1	1			7
4	TW-5		1452	X		GW	2	2	1	1	1			7
5	OW-3		1125	X		GW		2	1	1	1			5
6	OW-2		1430	X		GW		2	1	1	1			5
7	MW-106D		1230	X		GW	2	2	1	1	1			7
8	MW-121		1515	X		GW	2	2	1	1	1			7
9	Temp Blanks													
10														
11														
12														
13														
14														

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

RELINQUISHED BY / DATE/TIME
1: Daniel L Howard 11/13/15/1610
2: Nan-13-15 4:46
3:

RECEIVED BY / DATE/TIME
1: Nan-13-15 4:46
2: Nadia Clyde 11/13/15 4:46
3:

SPECIAL INSTRUCTIONS/COMMENTS:
* Dissolved metals will be Filtered by the Lab metals: As, Cu, Pb, Zn

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

PROJECT INFORMATION
PROJECT NAME: BFEL Atlanta
PROJECT #: 612208015 4.18
SITE ADDRESS: 1525 Pine St NW Atlanta, GA
SEND REPORT TO: Rhonda Quinn
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers:

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): GA
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: AMEC E&I, Inc. -Kennesaw
Project: BFEL-Atlanta
Lab ID: 1511E04

Case Narrative

IC Analysis by Method 9056A:

Due to sample matrix, sample(s) 1511E04-003E, -005D, -006D, and -007E required a dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc **Date:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-04
Project Name:	BFEL-Atlanta	**Collection Date:**	11/13/2015 9:30:00 AM
Lab ID:	1511E04-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
1,4-Dioxane	BRL	150		ug/L	215997	1	11/16/2015 21:31	NP
2-Butanone	BRL	50		ug/L	215997	1	11/16/2015 21:31	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215997	1	11/16/2015 21:31	NP
Acetone	BRL	50		ug/L	215997	1	11/16/2015 21:31	NP
Benzene	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
Carbon disulfide	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
Carbon tetrachloride	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
Chlorobenzene	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
Chloroethane	BRL	10		ug/L	215997	1	11/16/2015 21:31	NP
Chloroform	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
Chloromethane	BRL	10		ug/L	215997	1	11/16/2015 21:31	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
Cyclohexane	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
Ethylbenzene	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
Isobutyl Alcohol	BRL	200		ug/L	215997	1	11/16/2015 21:31	NP
Isopropylbenzene	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
Methylene chloride	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
Naphthalene	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
Styrene	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
Tetrachloroethene	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
Tetrahydrofuran	BRL	10		ug/L	215997	1	11/16/2015 21:31	NP
Toluene	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
Trichloroethene	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
Vinyl chloride	BRL	2.0		ug/L	215997	1	11/16/2015 21:31	NP
Xylenes, Total	BRL	5.0		ug/L	215997	1	11/16/2015 21:31	NP
Surr: 4-Bromofluorobenzene	95.3	70.7-125		%REC	215997	1	11/16/2015 21:31	NP
Surr: Dibromofluoromethane	103	82.2-120		%REC	215997	1	11/16/2015 21:31	NP
Surr: Toluene-d8	99	81.8-120		%REC	215997	1	11/16/2015 21:31	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-25
Project Name:	BFEL-Atlanta	**Collection Date:**	11/13/2015 11:10:00 AM
Lab ID:	1511E04-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
1,4-Dioxane	BRL	150		ug/L	215997	1	11/17/2015 03:25	NP
2-Butanone	BRL	50		ug/L	215997	1	11/17/2015 03:25	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215997	1	11/17/2015 03:25	NP
Acetone	BRL	50		ug/L	215997	1	11/17/2015 03:25	NP
Benzene	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
Carbon disulfide	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
Carbon tetrachloride	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
Chlorobenzene	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
Chloroethane	BRL	10		ug/L	215997	1	11/17/2015 03:25	NP
Chloroform	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
Chloromethane	BRL	10		ug/L	215997	1	11/17/2015 03:25	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
Cyclohexane	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
Ethylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
Isobutyl Alcohol	BRL	200		ug/L	215997	1	11/17/2015 03:25	NP
Isopropylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
Methylene chloride	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
Naphthalene	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
Styrene	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
Tetrachloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
Tetrahydrofuran	BRL	10		ug/L	215997	1	11/17/2015 03:25	NP
Toluene	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
Trichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
Vinyl chloride	BRL	2.0		ug/L	215997	1	11/17/2015 03:25	NP
Xylenes, Total	BRL	5.0		ug/L	215997	1	11/17/2015 03:25	NP
Surr: 4-Bromofluorobenzene	93.2	70.7-125		%REC	215997	1	11/17/2015 03:25	NP
Surr: Dibromofluoromethane	106	82.2-120		%REC	215997	1	11/17/2015 03:25	NP
Surr: Toluene-d8	99.3	81.8-120		%REC	215997	1	11/17/2015 03:25	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

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:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-25
Project Name:	BFEL-Atlanta	**Collection Date:**	11/13/2015 11:10:00 AM
Lab ID:	1511E04-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	BRL	5.00		ug/L	215979	1	11/17/2015 17:07	JS
Copper	280	2.00		ug/L	215979	1	11/17/2015 17:07	JS
Lead	23.3	1.00		ug/L	215979	1	11/17/2015 17:07	JS
Zinc	2830	10.0		ug/L	215979	1	11/17/2015 17:07	JS
ION SCAN SW9056A								
Nitrate	2.1	0.25		mg/L	R304750	1	11/13/2015 21:06	JW
Sulfate	270	10		mg/L	R304750	10	11/13/2015 21:21	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	BRL	5.00		ug/L	215864	1	11/18/2015 00:47	JS
Copper	276	2.00		ug/L	215864	1	11/18/2015 00:47	JS
Lead	22.5	1.00		ug/L	215864	1	11/18/2015 00:47	JS
Zinc	2670	10.0		ug/L	215864	1	11/18/2015 00:47	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**			
4,4´-DDD	BRL	0.10		ug/L	215940	1	11/17/2015 01:08	SH
4,4´-DDE	BRL	0.10		ug/L	215940	1	11/17/2015 01:08	SH
4,4´-DDT	BRL	0.10		ug/L	215940	1	11/17/2015 01:08	SH
alpha-BHC	0.16	0.050		ug/L	215940	1	11/17/2015 01:08	SH
alpha-Chlordane	BRL	0.050		ug/L	215940	1	11/17/2015 01:08	SH
beta-BHC	4.9	0.25		ug/L	215940	5	11/18/2015 15:31	SH
delta-BHC	0.19	0.050		ug/L	215940	1	11/17/2015 01:08	SH
Dieldrin	BRL	0.10		ug/L	215940	1	11/17/2015 01:08	SH
gamma-BHC	0.066	0.050		ug/L	215940	1	11/17/2015 01:08	SH
gamma-Chlordane	BRL	0.050		ug/L	215940	1	11/17/2015 01:08	SH
Heptachlor	BRL	0.050		ug/L	215940	1	11/17/2015 01:08	SH
Methoxychlor	BRL	0.50		ug/L	215940	1	11/17/2015 01:08	SH
Toxaphene	BRL	5.0		ug/L	215940	1	11/17/2015 01:08	SH
Surr: Decachlorobiphenyl	76.6	14.5-127		%REC	215940	1	11/17/2015 01:08	SH
Surr: Tetrachloro-m-xylene	58.2	20.9-122		%REC	215940	1	11/17/2015 01:08	SH

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:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-8
Project Name:	BFEL-Atlanta	**Collection Date:**	11/13/2015 12:42:00 PM
Lab ID:	1511E04-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
1,2,4-Trichlorobenzene	78	5.0		ug/L	215997	1	11/17/2015 03:49	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
1,4-Dioxane	BRL	150		ug/L	215997	1	11/17/2015 03:49	NP
2-Butanone	BRL	50		ug/L	215997	1	11/17/2015 03:49	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215997	1	11/17/2015 03:49	NP
Acetone	BRL	50		ug/L	215997	1	11/17/2015 03:49	NP
Benzene	140	5.0		ug/L	215997	1	11/17/2015 03:49	NP
Carbon disulfide	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
Carbon tetrachloride	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
Chlorobenzene	810	50		ug/L	215997	10	11/17/2015 11:52	NP
Chloroethane	BRL	10		ug/L	215997	1	11/17/2015 03:49	NP
Chloroform	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
Chloromethane	BRL	10		ug/L	215997	1	11/17/2015 03:49	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
Cyclohexane	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
Ethylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
Isobutyl Alcohol	BRL	200		ug/L	215997	1	11/17/2015 03:49	NP
Isopropylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
Methylene chloride	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
Naphthalene	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
Styrene	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
Tetrachloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
Tetrahydrofuran	BRL	10		ug/L	215997	1	11/17/2015 03:49	NP
Toluene	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
Trichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
Vinyl chloride	BRL	2.0		ug/L	215997	1	11/17/2015 03:49	NP
Xylenes, Total	BRL	5.0		ug/L	215997	1	11/17/2015 03:49	NP
Surr: 4-Bromofluorobenzene	93	70.7-125		%REC	215997	10	11/17/2015 11:52	NP
Surr: 4-Bromofluorobenzene	96.7	70.7-125		%REC	215997	1	11/17/2015 03:49	NP
Surr: Dibromofluoromethane	96.9	82.2-120		%REC	215997	10	11/17/2015 11:52	NP
Surr: Dibromofluoromethane	101	82.2-120		%REC	215997	1	11/17/2015 03:49	NP
Surr: Toluene-d8	95.9	81.8-120		%REC	215997	10	11/17/2015 11:52	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-8
Project Name:	BFEL-Atlanta	**Collection Date:**	11/13/2015 12:42:00 PM
Lab ID:	1511E04-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Surr: Toluene-d8	96.4	81.8-120		%REC	215997	1	11/17/2015 03:49	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	87.8	5.00		ug/L	215979	1	11/17/2015 17:33	JS
Copper	13.5	2.00		ug/L	215979	1	11/17/2015 17:33	JS
Lead	1.27	1.00		ug/L	215979	1	11/17/2015 17:33	JS
Zinc	1680	10.0		ug/L	215979	1	11/17/2015 17:33	JS
ION SCAN SW9056A								
Nitrate	BRL	2.5		mg/L	R304750	10	11/13/2015 22:49	JW
Sulfate	890	10		mg/L	R304750	10	11/13/2015 22:49	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	54.1	5.00		ug/L	215864	1	11/18/2015 00:53	JS
Copper	2.71	2.00		ug/L	215864	1	01/18/2015 19:09	JS
Lead	BRL	1.00		ug/L	215864	1	01/18/2015 19:09	JS
Zinc	1310	10.0		ug/L	215864	1	11/18/2015 00:53	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	4.6	1.0		ug/L	215940	10	11/18/2015 17:23	SH
4,4´-DDE	BRL	0.10		ug/L	215940	1	11/17/2015 01:26	SH
4,4´-DDT	3.6	1.0		ug/L	215940	10	11/18/2015 17:23	SH
alpha-BHC	580	50		ug/L	215940	1000	11/18/2015 18:59	SH
alpha-Chlordane	0.21	0.050		ug/L	215940	1	11/17/2015 01:26	SH
beta-BHC	87	5.0		ug/L	215940	100	11/18/2015 17:34	SH
delta-BHC	1200	50		ug/L	215940	1000	11/18/2015 18:59	SH
Dieldrin	4.1	1.0		ug/L	215940	10	11/18/2015 17:23	SH
gamma-BHC	1000	50		ug/L	215940	1000	11/18/2015 18:59	SH
gamma-Chlordane	0.96	0.050		ug/L	215940	1	11/17/2015 01:26	SH
Heptachlor	BRL	0.050		ug/L	215940	1	11/17/2015 01:26	SH
Methoxychlor	BRL	0.50		ug/L	215940	1	11/17/2015 01:26	SH
Toxaphene	BRL	5.0		ug/L	215940	1	11/17/2015 01:26	SH
Surr: Decachlorobiphenyl	67.5	14.5-127		%REC	215940	1	11/17/2015 01:26	SH
Surr: Tetrachloro-m-xylene	104	20.9-122		%REC	215940	1	11/17/2015 01:26	SH

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:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-5
Project Name:	BFEL-Atlanta	**Collection Date:**	11/13/2015 2:52:00 PM
Lab ID:	1511E04-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
1,4-Dioxane	BRL	150		ug/L	215997	1	11/17/2015 04:12	NP
2-Butanone	BRL	50		ug/L	215997	1	11/17/2015 04:12	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215997	1	11/17/2015 04:12	NP
Acetone	BRL	50		ug/L	215997	1	11/17/2015 04:12	NP
Benzene	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
Carbon disulfide	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
Carbon tetrachloride	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
Chlorobenzene	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
Chloroethane	BRL	10		ug/L	215997	1	11/17/2015 04:12	NP
Chloroform	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
Chloromethane	BRL	10		ug/L	215997	1	11/17/2015 04:12	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
Cyclohexane	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
Ethylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
Isobutyl Alcohol	BRL	200		ug/L	215997	1	11/17/2015 04:12	NP
Isopropylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
Methylene chloride	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
Naphthalene	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
Styrene	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
Tetrachloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
Tetrahydrofuran	BRL	10		ug/L	215997	1	11/17/2015 04:12	NP
Toluene	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
Trichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
Vinyl chloride	BRL	2.0		ug/L	215997	1	11/17/2015 04:12	NP
Xylenes, Total	BRL	5.0		ug/L	215997	1	11/17/2015 04:12	NP
Surr: 4-Bromofluorobenzene	97.4	70.7-125		%REC	215997	1	11/17/2015 04:12	NP
Surr: Dibromofluoromethane	104	82.2-120		%REC	215997	1	11/17/2015 04:12	NP
Surr: Toluene-d8	99.6	81.8-120		%REC	215997	1	11/17/2015 04:12	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-5
Project Name:	BFEL-Atlanta	**Collection Date:**	11/13/2015 2:52:00 PM
Lab ID:	1511E04-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	BRL	5.00		ug/L	215979	1	11/17/2015 17:52	JS
Copper	1050	2.00		ug/L	215979	1	11/17/2015 17:52	JS
Lead	1.70	1.00		ug/L	215979	1	11/17/2015 17:52	JS
Zinc	8490	10.0		ug/L	215979	1	11/17/2015 17:52	JS
ION SCAN SW9056A								
Nitrate	23	2.5		mg/L	R304750	10	11/14/2015 00:32	JW
Sulfate	620	10		mg/L	R304750	10	11/14/2015 00:32	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	BRL	5.00		ug/L	215864	1	11/18/2015 00:59	JS
Copper	1040	2.00		ug/L	215864	1	11/18/2015 00:59	JS
Lead	1.18	1.00		ug/L	215864	1	11/18/2015 00:59	JS
Zinc	8550	10.0		ug/L	215864	1	11/18/2015 00:59	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**			
4,4´-DDD	BRL	0.10		ug/L	215940	1	11/17/2015 01:45	SH
4,4´-DDE	BRL	0.10		ug/L	215940	1	11/17/2015 01:45	SH
4,4´-DDT	BRL	0.10		ug/L	215940	1	11/17/2015 01:45	SH
alpha-BHC	0.19	0.050		ug/L	215940	1	11/17/2015 01:45	SH
alpha-Chlordane	BRL	0.050		ug/L	215940	1	11/17/2015 01:45	SH
beta-BHC	0.82	0.050		ug/L	215940	1	11/17/2015 01:45	SH
delta-BHC	0.24	0.050		ug/L	215940	1	11/17/2015 01:45	SH
Dieldrin	BRL	0.10		ug/L	215940	1	11/17/2015 01:45	SH
gamma-BHC	0.24	0.050		ug/L	215940	1	11/17/2015 01:45	SH
gamma-Chlordane	BRL	0.050		ug/L	215940	1	11/17/2015 01:45	SH
Heptachlor	BRL	0.050		ug/L	215940	1	11/17/2015 01:45	SH
Methoxychlor	BRL	0.50		ug/L	215940	1	11/17/2015 01:45	SH
Toxaphene	BRL	5.0		ug/L	215940	1	11/17/2015 01:45	SH
Surr: Decachlorobiphenyl	67.9	14.5-127		%REC	215940	1	11/17/2015 01:45	SH
Surr: Tetrachloro-m-xylene	67.1	20.9-122		%REC	215940	1	11/17/2015 01:45	SH

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:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	OW-3
Project Name:	BFEL-Atlanta	**Collection Date:**	11/13/2015 11:25:00 AM
Lab ID:	1511E04-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215979	1	11/17/2015 17:59	JS
Copper	726	2.00		ug/L	215979	1	11/17/2015 17:59	JS
Lead	2.19	1.00		ug/L	215979	1	11/17/2015 17:59	JS
Zinc	4810	10.0		ug/L	215979	1	11/17/2015 17:59	JS
ION SCAN SW9056A								
Nitrate	BRL	2.5		mg/L	R304750	10	11/13/2015 21:51	JW
Sulfate	560	10		mg/L	R304750	10	11/13/2015 21:51	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215864	1	11/18/2015 00:15	JS
Copper	692	2.00		ug/L	215864	1	11/18/2015 00:15	JS
Lead	BRL	1.00		ug/L	215864	1	11/18/2015 00:15	JS
Zinc	4920	10.0		ug/L	215864	1	11/18/2015 00:15	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	215940	1	11/17/2015 02:03	SH
4,4´-DDE	BRL	0.10		ug/L	215940	1	11/17/2015 02:03	SH
4,4´-DDT	BRL	0.10		ug/L	215940	1	11/17/2015 02:03	SH
alpha-BHC	3.6	0.50		ug/L	215940	10	11/18/2015 17:46	SH
alpha-Chlordane	BRL	0.050		ug/L	215940	1	11/17/2015 02:03	SH
beta-BHC	2.1	0.50		ug/L	215940	10	11/18/2015 17:46	SH
delta-BHC	10	0.50		ug/L	215940	10	11/18/2015 17:46	SH
Dieldrin	BRL	0.10		ug/L	215940	1	11/17/2015 02:03	SH
gamma-BHC	2.0	0.50		ug/L	215940	10	11/18/2015 17:46	SH
gamma-Chlordane	BRL	0.050		ug/L	215940	1	11/17/2015 02:03	SH
Heptachlor	BRL	0.050		ug/L	215940	1	11/17/2015 02:03	SH
Methoxychlor	BRL	0.50		ug/L	215940	1	11/17/2015 02:03	SH
Toxaphene	BRL	5.0		ug/L	215940	1	11/17/2015 02:03	SH
Surr: Decachlorobiphenyl	54.9	14.5-127		%REC	215940	1	11/17/2015 02:03	SH
Surr: Tetrachloro-m-xylene	80.1	20.9-122		%REC	215940	1	11/17/2015 02:03	SH

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:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	OW-2
Project Name:	BFEL-Atlanta	**Collection Date:**	11/13/2015 2:30:00 PM
Lab ID:	1511E04-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	53.2	5.00		ug/L	215979	1	11/17/2015 18:05	JS
Copper	47.6	2.00		ug/L	215979	1	11/17/2015 18:05	JS
Lead	BRL	1.00		ug/L	215979	1	11/17/2015 18:05	JS
Zinc	2890	10.0		ug/L	215979	1	11/17/2015 18:05	JS
ION SCAN SW9056A								
Nitrate	BRL	2.5		mg/L	R304750	10	11/14/2015 00:03	JW
Sulfate	480	10		mg/L	R304750	10	11/14/2015 00:03	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	27.2	5.00		ug/L	215864	1	11/18/2015 01:24	JS
Copper	21.5	2.00		ug/L	215864	1	11/18/2015 01:24	JS
Lead	BRL	1.00		ug/L	215864	1	11/18/2015 01:24	JS
Zinc	2660	10.0		ug/L	215864	1	01/18/2015 19:15	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**			
4,4´-DDD	0.15	0.10		ug/L	215940	1	11/17/2015 02:22	SH
4,4´-DDE	BRL	0.10		ug/L	215940	1	11/17/2015 02:22	SH
4,4´-DDT	0.19	0.10		ug/L	215940	1	11/17/2015 02:22	SH
alpha-BHC	42	2.5		ug/L	215940	50	11/18/2015 18:08	SH
alpha-Chlordane	BRL	0.050		ug/L	215940	1	11/17/2015 02:22	SH
beta-BHC	8.3	0.50		ug/L	215940	10	11/18/2015 17:57	SH
delta-BHC	150	5.0		ug/L	215940	100	11/19/2015 15:23	SH
Dieldrin	BRL	0.10		ug/L	215940	1	11/17/2015 02:22	SH
gamma-BHC	45	2.5		ug/L	215940	50	11/18/2015 18:08	SH
gamma-Chlordane	BRL	0.050		ug/L	215940	1	11/17/2015 02:22	SH
Heptachlor	BRL	0.050		ug/L	215940	1	11/17/2015 02:22	SH
Methoxychlor	BRL	0.50		ug/L	215940	1	11/17/2015 02:22	SH
Toxaphene	BRL	5.0		ug/L	215940	1	11/17/2015 02:22	SH
Surr: Decachlorobiphenyl	74.2	14.5-127		%REC	215940	1	11/17/2015 02:22	SH
Surr: Tetrachloro-m-xylene	87.4	20.9-122		%REC	215940	1	11/17/2015 02:22	SH

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:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-106D
Project Name:	BFEL-Atlanta	**Collection Date:**	11/13/2015 12:30:00 PM
Lab ID:	1511E04-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
1,4-Dioxane	BRL	150		ug/L	215997	1	11/17/2015 04:35	NP
2-Butanone	BRL	50		ug/L	215997	1	11/17/2015 04:35	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215997	1	11/17/2015 04:35	NP
Acetone	BRL	50		ug/L	215997	1	11/17/2015 04:35	NP
Benzene	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
Carbon disulfide	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
Carbon tetrachloride	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
Chlorobenzene	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
Chloroethane	BRL	10		ug/L	215997	1	11/17/2015 04:35	NP
Chloroform	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
Chloromethane	BRL	10		ug/L	215997	1	11/17/2015 04:35	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
Cyclohexane	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
Ethylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
Isobutyl Alcohol	BRL	200		ug/L	215997	1	11/17/2015 04:35	NP
Isopropylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
Methylene chloride	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
Naphthalene	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
Styrene	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
Tetrachloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
Tetrahydrofuran	BRL	10		ug/L	215997	1	11/17/2015 04:35	NP
Toluene	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
Trichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
Vinyl chloride	BRL	2.0		ug/L	215997	1	11/17/2015 04:35	NP
Xylenes, Total	BRL	5.0		ug/L	215997	1	11/17/2015 04:35	NP
Surr: 4-Bromofluorobenzene	97.9	70.7-125		%REC	215997	1	11/17/2015 04:35	NP
Surr: Dibromofluoromethane	104	82.2-120		%REC	215997	1	11/17/2015 04:35	NP
Surr: Toluene-d8	97.9	81.8-120		%REC	215997	1	11/17/2015 04:35	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-106D
Project Name:	BFEL-Atlanta	**Collection Date:**	11/13/2015 12:30:00 PM
Lab ID:	1511E04-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215979	1	11/17/2015 18:11	JS
Copper	3.82	2.00		ug/L	215979	1	11/17/2015 18:11	JS
Lead	BRL	1.00		ug/L	215979	1	11/17/2015 18:11	JS
Zinc	277	10.0		ug/L	215979	1	11/17/2015 18:11	JS
ION SCAN SW9056A								
Nitrate	BRL	2.5		mg/L	R304750	10	11/13/2015 22:20	JW
Sulfate	380	10		mg/L	R304750	10	11/13/2015 22:20	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215864	1	11/18/2015 01:31	JS
Copper	2.69	2.00		ug/L	215864	1	11/18/2015 01:31	JS
Lead	BRL	1.00		ug/L	215864	1	11/18/2015 01:31	JS
Zinc	241	10.0		ug/L	215864	1	01/18/2015 19:22	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	215940	1	11/17/2015 02:41	SH
4,4´-DDE	BRL	0.10		ug/L	215940	1	11/17/2015 02:41	SH
4,4´-DDT	BRL	0.10		ug/L	215940	1	11/17/2015 02:41	SH
alpha-BHC	7.9	0.50		ug/L	215940	10	11/18/2015 18:31	SH
alpha-Chlordane	BRL	0.050		ug/L	215940	1	11/17/2015 02:41	SH
beta-BHC	2.4	0.25		ug/L	215940	5	11/18/2015 18:19	SH
delta-BHC	10	0.50		ug/L	215940	10	11/18/2015 18:31	SH
Dieldrin	BRL	0.10		ug/L	215940	1	11/17/2015 02:41	SH
gamma-BHC	4.1	0.25		ug/L	215940	5	11/18/2015 18:19	SH
gamma-Chlordane	BRL	0.050		ug/L	215940	1	11/17/2015 02:41	SH
Heptachlor	BRL	0.050		ug/L	215940	1	11/17/2015 02:41	SH
Methoxychlor	BRL	0.50		ug/L	215940	1	11/17/2015 02:41	SH
Toxaphene	BRL	5.0		ug/L	215940	1	11/17/2015 02:41	SH
Surr: Decachlorobiphenyl	78.1	14.5-127		%REC	215940	1	11/17/2015 02:41	SH
Surr: Tetrachloro-m-xylene	75.8	20.9-122		%REC	215940	1	11/17/2015 02:41	SH

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:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-121
Project Name:	BFEL-Atlanta	**Collection Date:**	11/13/2015 3:15:00 PM
Lab ID:	1511E04-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
1,1-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
1,1-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
1,1-Dichloropropene	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
1,2-Dichloroethane	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
1,2-Dichloropropane	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
1,4-Dioxane	BRL	150		ug/L	215997	1	11/17/2015 04:59	NP
2-Butanone	BRL	50		ug/L	215997	1	11/17/2015 04:59	NP
4-Methyl-2-pentanone	BRL	10		ug/L	215997	1	11/17/2015 04:59	NP
Acetone	BRL	50		ug/L	215997	1	11/17/2015 04:59	NP
Benzene	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
Carbon disulfide	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
Carbon tetrachloride	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
Chlorobenzene	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
Chloroethane	BRL	10		ug/L	215997	1	11/17/2015 04:59	NP
Chloroform	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
Chloromethane	BRL	10		ug/L	215997	1	11/17/2015 04:59	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
Cyclohexane	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
Ethylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
Isobutyl Alcohol	BRL	200		ug/L	215997	1	11/17/2015 04:59	NP
Isopropylbenzene	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
Methylene chloride	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
Naphthalene	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
Styrene	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
Tetrachloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
Tetrahydrofuran	BRL	10		ug/L	215997	1	11/17/2015 04:59	NP
Toluene	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
Trichloroethene	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
Trichlorofluoromethane	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
Vinyl chloride	BRL	2.0		ug/L	215997	1	11/17/2015 04:59	NP
Xylenes, Total	BRL	5.0		ug/L	215997	1	11/17/2015 04:59	NP
Surr: 4-Bromofluorobenzene	96.5	70.7-125		%REC	215997	1	11/17/2015 04:59	NP
Surr: Dibromofluoromethane	103	82.2-120		%REC	215997	1	11/17/2015 04:59	NP
Surr: Toluene-d8	99.1	81.8-120		%REC	215997	1	11/17/2015 04:59	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-121
Project Name:	BFEL-Atlanta	**Collection Date:**	11/13/2015 3:15:00 PM
Lab ID:	1511E04-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215979	1	11/17/2015 18:18	JS
Copper	5.20	2.00		ug/L	215979	1	11/17/2015 18:18	JS
Lead	BRL	1.00		ug/L	215979	1	11/17/2015 18:18	JS
Zinc	18.7	10.0		ug/L	215979	1	11/17/2015 18:18	JS
ION SCAN SW9056A								
Nitrate	5.0	0.25		mg/L	R304750	1	11/14/2015 00:47	JW
Sulfate	21	1.0		mg/L	R304750	1	11/14/2015 00:47	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215864	1	11/18/2015 01:37	JS
Copper	3.45	2.00		ug/L	215864	1	11/18/2015 01:37	JS
Lead	BRL	1.00		ug/L	215864	1	11/18/2015 01:37	JS
Zinc	BRL	10.0		ug/L	215864	1	11/18/2015 01:37	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	215940	1	11/17/2015 02:59	SH
4,4´-DDE	BRL	0.10		ug/L	215940	1	11/17/2015 02:59	SH
4,4´-DDT	BRL	0.10		ug/L	215940	1	11/17/2015 02:59	SH
alpha-BHC	BRL	0.050		ug/L	215940	1	11/17/2015 02:59	SH
alpha-Chlordane	BRL	0.050		ug/L	215940	1	11/17/2015 02:59	SH
beta-BHC	BRL	0.050		ug/L	215940	1	11/17/2015 02:59	SH
delta-BHC	BRL	0.050		ug/L	215940	1	11/17/2015 02:59	SH
Dieldrin	BRL	0.10		ug/L	215940	1	11/17/2015 02:59	SH
gamma-BHC	BRL	0.050		ug/L	215940	1	11/17/2015 02:59	SH
gamma-Chlordane	BRL	0.050		ug/L	215940	1	11/17/2015 02:59	SH
Heptachlor	BRL	0.050		ug/L	215940	1	11/17/2015 02:59	SH
Methoxychlor	BRL	0.50		ug/L	215940	1	11/17/2015 02:59	SH
Toxaphene	BRL	5.0		ug/L	215940	1	11/17/2015 02:59	SH
Surr: Decachlorobiphenyl	68	14.5-127		%REC	215940	1	11/17/2015 02:59	SH
Surr: Tetrachloro-m-xylene	76.6	20.9-122		%REC	215940	1	11/17/2015 02:59	SH

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 Amec / Kennesaw Work Order Number 1511E04

Checklist completed by _____ 11/13/15
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 3.7 Cooler #2 3.7 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 AD

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: 23-Nov-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1511E04

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1511E04-001A	TB-04	11/13/2015 9:30:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/16/2015 8:00:00PM	11/16/2015
1511E04-002A	MW-25	11/13/2015 11:10:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2015 8:00:00PM	11/17/2015
1511E04-002B	MW-25	11/13/2015 11:10:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00PM	11/17/2015
1511E04-002B	MW-25	11/13/2015 11:10:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00PM	11/18/2015
1511E04-002C	MW-25	11/13/2015 11:10:00AM	Groundwater	Total Metals by ICP/MS		11/16/2015 2:15:00PM	11/17/2015
1511E04-002D	MW-25	11/13/2015 11:10:00AM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	11/18/2015
1511E04-002E	MW-25	11/13/2015 11:10:00AM	Groundwater	ION SCAN			11/13/2015
1511E04-003A	TW-8	11/13/2015 12:42:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2015 8:00:00PM	11/17/2015
1511E04-003B	TW-8	11/13/2015 12:42:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00PM	11/17/2015
1511E04-003B	TW-8	11/13/2015 12:42:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00PM	11/18/2015
1511E04-003C	TW-8	11/13/2015 12:42:00PM	Groundwater	Total Metals by ICP/MS		11/16/2015 2:15:00PM	11/17/2015
1511E04-003D	TW-8	11/13/2015 12:42:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	01/18/2015
1511E04-003D	TW-8	11/13/2015 12:42:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	11/18/2015
1511E04-003E	TW-8	11/13/2015 12:42:00PM	Groundwater	ION SCAN			11/13/2015
1511E04-004A	TW-5	11/13/2015 2:52:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2015 8:00:00PM	11/17/2015
1511E04-004B	TW-5	11/13/2015 2:52:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00PM	11/17/2015
1511E04-004C	TW-5	11/13/2015 2:52:00PM	Groundwater	Total Metals by ICP/MS		11/16/2015 2:15:00PM	11/17/2015
1511E04-004D	TW-5	11/13/2015 2:52:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	11/18/2015
1511E04-004E	TW-5	11/13/2015 2:52:00PM	Groundwater	ION SCAN			11/14/2015
1511E04-005A	OW-3	11/13/2015 11:25:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00PM	11/17/2015
1511E04-005A	OW-3	11/13/2015 11:25:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00PM	11/18/2015
1511E04-005B	OW-3	11/13/2015 11:25:00AM	Groundwater	Total Metals by ICP/MS		11/16/2015 2:15:00PM	11/17/2015
1511E04-005C	OW-3	11/13/2015 11:25:00AM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	11/18/2015
1511E04-005D	OW-3	11/13/2015 11:25:00AM	Groundwater	ION SCAN			11/13/2015
1511E04-006A	OW-2	11/13/2015 2:30:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00PM	11/17/2015
1511E04-006A	OW-2	11/13/2015 2:30:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00PM	11/18/2015
1511E04-006A	OW-2	11/13/2015 2:30:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00PM	11/19/2015
1511E04-006B	OW-2	11/13/2015 2:30:00PM	Groundwater	Total Metals by ICP/MS		11/16/2015 2:15:00PM	11/17/2015
1511E04-006C	OW-2	11/13/2015 2:30:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	01/18/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1511E04

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1511E04-006C	OW-2	11/13/2015 2:30:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	11/18/2015
1511E04-006D	OW-2	11/13/2015 2:30:00PM	Groundwater	ION SCAN			11/14/2015
1511E04-007A	MW-106D	11/13/2015 12:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2015 8:00:00PM	11/17/2015
1511E04-007B	MW-106D	11/13/2015 12:30:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00PM	11/17/2015
1511E04-007B	MW-106D	11/13/2015 12:30:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00PM	11/18/2015
1511E04-007C	MW-106D	11/13/2015 12:30:00PM	Groundwater	Total Metals by ICP/MS		11/16/2015 2:15:00PM	11/17/2015
1511E04-007D	MW-106D	11/13/2015 12:30:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	01/18/2015
1511E04-007D	MW-106D	11/13/2015 12:30:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	11/18/2015
1511E04-007E	MW-106D	11/13/2015 12:30:00PM	Groundwater	ION SCAN			11/13/2015
1511E04-008A	MW-121	11/13/2015 3:15:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2015 8:00:00PM	11/17/2015
1511E04-008B	MW-121	11/13/2015 3:15:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2015 12:00:00PM	11/17/2015
1511E04-008C	MW-121	11/13/2015 3:15:00PM	Groundwater	Total Metals by ICP/MS		11/16/2015 2:15:00PM	11/17/2015
1511E04-008D	MW-121	11/13/2015 3:15:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	11/18/2015
1511E04-008E	MW-121	11/13/2015 3:15:00PM	Groundwater	ION SCAN			11/14/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511E04

ANALYTICAL QC SUMMARY REPORT

BatchID: 215864

Sample ID: **MB-215864** Client ID: Units: **ug/L** Prep Date: **11/17/2015** Run No: **304637**
SampleType: **MBLK** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215864** Analysis Date: **11/18/2015** Seq No: **6523573**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00									
Copper	BRL	2.00									
Lead	BRL	1.00									
Zinc	BRL	10.0									

Sample ID: **LCS-215864** Client ID: Units: **ug/L** Prep Date: **11/17/2015** Run No: **304637**
SampleType: **LCS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215864** Analysis Date: **11/18/2015** Seq No: **6523574**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	89.91	5.00	100.0	1.158	88.8	80	120				
Copper	91.53	2.00	100.0		91.5	80	120				
Lead	89.37	1.00	100.0		89.4	80	120				
Zinc	89.08	10.0	100.0		89.1	80	120				

Sample ID: **1511E04-005CMS** Client ID: **OW-3** Units: **ug/L** Prep Date: **11/17/2015** Run No: **304637**
SampleType: **MS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215864** Analysis Date: **11/18/2015** Seq No: **6523576**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	85.48	5.00	100.0	3.435	82.0	75	125				
Copper	773.7	2.00	100.0	692.4	81.3	75	125				
Lead	95.21	1.00	100.0	0.8280	94.4	75	125				
Zinc	5118	10.0	100.0	4919	199	75	125				S

Sample ID: **1511E04-005CMSD** Client ID: **OW-3** Units: **ug/L** Prep Date: **11/17/2015** Run No: **304637**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215864** Analysis Date: **11/18/2015** Seq No: **6523577**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	87.59	5.00	100.0	3.435	84.2	75	125	85.48	2.44	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511E04

ANALYTICAL QC SUMMARY REPORT

BatchID: 215864

Sample ID: **1511E04-005CMSD** Client ID: **OW-3** Units: **ug/L** Prep Date: **11/17/2015** Run No: **304637**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215864** Analysis Date: **11/18/2015** Seq No: **6523577**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	783.2	2.00	100.0	692.4	90.8	75	125	773.7	1.22	20	
Lead	96.10	1.00	100.0	0.8280	95.3	75	125	95.21	0.930	20	
Zinc	5200	10.0	100.0	4919	281	75	125	5118	1.59	20	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: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511E04

ANALYTICAL QC SUMMARY REPORT

BatchID: 215940

Sample ID: **MB-215940** Client ID: Units: **ug/L** Prep Date: **11/16/2015** Run No: **304710**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **215940** Analysis Date: **11/16/2015** Seq No: **6525241**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDD	BRL	0.10									
4,4´-DDE	BRL	0.10									
4,4´-DDT	BRL	0.10									
alpha-BHC	BRL	0.050									
alpha-Chlordane	BRL	0.050									
beta-BHC	BRL	0.050									
delta-BHC	BRL	0.050									
Dieldrin	BRL	0.10									
gamma-BHC	BRL	0.050									
gamma-Chlordane	BRL	0.050									
Heptachlor	BRL	0.050									
Methoxychlor	BRL	0.50									
Toxaphene	BRL	5.0									
Surr: Decachlorobiphenyl	0.2872	0	0.5000		57.4	14.5	127				
Surr: Tetrachloro-m-xylene	0.3569	0	0.5000		71.4	20.9	122				

Sample ID: **LCS-215940** Client ID: Units: **ug/L** Prep Date: **11/16/2015** Run No: **304710**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **215940** Analysis Date: **11/16/2015** Seq No: **6525242**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.9161	0.10	1.000		91.6	56.2	135				
Dieldrin	0.9390	0.10	1.000		93.9	62.3	129				
gamma-BHC	0.8664	0.050	1.000		86.6	58.5	127				
Heptachlor	0.7966	0.050	1.000		79.7	50.7	132				
Surr: Decachlorobiphenyl	0.3070	0	0.5000		61.4	14.5	127				
Surr: Tetrachloro-m-xylene	0.3628	0	0.5000		72.6	20.9	122				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511E04

ANALYTICAL QC SUMMARY REPORT

BatchID: 215940

Sample ID: **1511C39-002BMS** Client ID: Units: **ug/L** Prep Date: **11/16/2015** Run No: **304710**
SampleType: **MS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **215940** Analysis Date: **11/16/2015** Seq No: **6525244**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.8805	0.10	1.000	0.01504	86.6	37.9	153				
Dieldrin	0.9286	0.10	1.000	0.02885	90.0	48.7	139				
gamma-BHC	0.8442	0.050	1.000	0.008000	83.6	52	139				
Heptachlor	0.8027	0.050	1.000		80.3	36.3	145				
Surr: Decachlorobiphenyl	0.3720	0	0.5000		74.4	14.5	127				
Surr: Tetrachloro-m-xylene	0.3131	0	0.5000		62.6	20.9	122				

Sample ID: **1511C39-002BMSD** Client ID: Units: **ug/L** Prep Date: **11/16/2015** Run No: **304710**
SampleType: **MSD** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **215940** Analysis Date: **11/16/2015** Seq No: **6525245**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.9271	0.10	1.000	0.01504	91.2	37.9	153	0.8805	5.15	33.7	
Dieldrin	0.9740	0.10	1.000	0.02885	94.5	48.7	139	0.9286	4.78	27.1	
gamma-BHC	0.9056	0.050	1.000	0.008000	89.8	52	139	0.8442	7.01	29.8	
Heptachlor	0.8739	0.050	1.000		87.4	36.3	145	0.8027	8.49	33.3	
Surr: Decachlorobiphenyl	0.3931	0	0.5000		78.6	14.5	127	0.3720	0	0	
Surr: Tetrachloro-m-xylene	0.3737	0	0.5000		74.7	20.9	122	0.3131	0	0	

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511E04

ANALYTICAL QC SUMMARY REPORT

BatchID: 215979

Sample ID: **MB-215979** Client ID: Units: **ug/L** Prep Date: **11/16/2015** Run No: **304612**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **215979** Analysis Date: **11/17/2015** Seq No: **6522862**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00									
Copper	BRL	2.00									
Lead	BRL	1.00									
Zinc	BRL	10.0									

Sample ID: **LCS-215979** Client ID: Units: **ug/L** Prep Date: **11/16/2015** Run No: **304612**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **215979** Analysis Date: **11/17/2015** Seq No: **6522863**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	93.37	5.00	100.0		93.4	80	120				
Copper	94.42	2.00	100.0		94.4	80	120				
Lead	93.74	1.00	100.0		93.7	80	120				
Zinc	93.53	10.0	100.0		93.5	80	120				

Sample ID: **1511E00-002BMS** Client ID: Units: **ug/L** Prep Date: **11/16/2015** Run No: **304612**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **215979** Analysis Date: **11/17/2015** Seq No: **6522867**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	89.46	5.00	100.0	3.017	86.4	75	125				
Copper	90.49	2.00	100.0	2.631	87.9	75	125				
Lead	96.01	1.00	100.0	1.140	94.9	75	125				
Zinc	116.5	10.0	100.0	57.82	58.7	75	125				S

Sample ID: **1511E00-002BMSD** Client ID: Units: **ug/L** Prep Date: **11/16/2015** Run No: **304612**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **215979** Analysis Date: **11/17/2015** Seq No: **6522868**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	90.55	5.00	100.0	3.017	87.5	75	125	89.46	1.21	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511E04

ANALYTICAL QC SUMMARY REPORT

BatchID: 215979

Sample ID: **1511E00-002BMSD** Client ID:
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A**
Units: **ug/L** Prep Date: **11/16/2015** Run No: **304612**
BatchID: **215979** Analysis Date: **11/17/2015** Seq No: **6522868**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	90.41	2.00	100.0	2.631	87.8	75	125	90.49	0.088	20	
Lead	95.16	1.00	100.0	1.140	94.0	75	125	96.01	0.889	20	
Zinc	100.7	10.0	100.0	57.82	42.9	75	125	116.5	14.5	20	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: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511E04

ANALYTICAL QC SUMMARY REPORT

BatchID: 215997

Sample ID: **MB-215997** Client ID: Units: **ug/L** Prep Date: **11/16/2015** Run No: **304506**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **215997** Analysis Date: **11/16/2015** Seq No: **6520913**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,1-Dichloropropene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,4-Dioxane	BRL	150									
2-Butanone	BRL	50									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
Cyclohexane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Isobutyl Alcohol	BRL	200									
Isopropylbenzene	BRL	5.0									
Methylene chloride	BRL	5.0									
Naphthalene	BRL	5.0									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511E04

ANALYTICAL QC SUMMARY REPORT

BatchID: 215997

Sample ID: **MB-215997** Client ID: Units: **ug/L** Prep Date: **11/16/2015** Run No: **304506**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **215997** Analysis Date: **11/16/2015** Seq No: **6520913**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Tetrahydrofuran	BRL	10									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	48.35	0	50.00		96.7	70.7	125				
Surr: Dibromofluoromethane	51.19	0	50.00		102	82.2	120				
Surr: Toluene-d8	48.24	0	50.00		96.5	81.8	120				

Sample ID: **LCS-215997** Client ID: Units: **ug/L** Prep Date: **11/16/2015** Run No: **304506**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **215997** Analysis Date: **11/16/2015** Seq No: **6520908**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	55.11	5.0	50.00		110	64.2	137				
Benzene	49.10	5.0	50.00		98.2	72.8	128				
Chlorobenzene	48.43	5.0	50.00		96.9	72.3	126				
Toluene	47.64	5.0	50.00		95.3	74.9	127				
Trichloroethene	52.51	5.0	50.00		105	70.5	134				
Surr: 4-Bromofluorobenzene	48.24	0	50.00		96.5	70.7	125				
Surr: Dibromofluoromethane	49.58	0	50.00		99.2	82.2	120				
Surr: Toluene-d8	47.91	0	50.00		95.8	81.8	120				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511E04

ANALYTICAL QC SUMMARY REPORT

BatchID: 215997

Sample ID: **1511C39-010AMS** Client ID: Units: **ug/L** Prep Date: **11/16/2015** Run No: **304506**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **215997** Analysis Date: **11/16/2015** Seq No: **6520920**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	58230	5000	50000		116	60.5	156				
Benzene	53000	5000	50000		106	70	135				
Chlorobenzene	52290	5000	50000		105	70.5	132				
Toluene	117900	5000	50000	66470	103	70.5	137				
Trichloroethene	57480	5000	50000		115	71.8	139				
Surr: 4-Bromofluorobenzene	47950	0	50000		95.9	70.7	125				
Surr: Dibromofluoromethane	50610	0	50000		101	82.2	120				
Surr: Toluene-d8	50460	0	50000		101	81.8	120				

Sample ID: **1511C39-010AMSD** Client ID: Units: **ug/L** Prep Date: **11/16/2015** Run No: **304506**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **215997** Analysis Date: **11/16/2015** Seq No: **6520921**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	57010	5000	50000		114	60.5	156	58230	2.12	20	
Benzene	52940	5000	50000		106	70	135	53000	0.113	20	
Chlorobenzene	51710	5000	50000		103	70.5	132	52290	1.12	20	
Toluene	118600	5000	50000	66470	104	70.5	137	117900	0.626	20	
Trichloroethene	56570	5000	50000		113	71.8	139	57480	1.60	20	
Surr: 4-Bromofluorobenzene	49620	0	50000		99.2	70.7	125	47950	0	0	
Surr: Dibromofluoromethane	51270	0	50000		103	82.2	120	50610	0	0	
Surr: Toluene-d8	51290	0	50000		103	81.8	120	50460	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511E04

ANALYTICAL QC SUMMARY REPORT

BatchID: R304750

Sample ID: **MB-R304750** Client ID: Units: **mg/L** Prep Date: Run No: **304750**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R304750** Analysis Date: **11/13/2015** Seq No: **6526548**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R304750** Client ID: Units: **mg/L** Prep Date: Run No: **304750**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R304750** Analysis Date: **11/13/2015** Seq No: **6526547**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.873	0.25	5.000		97.5	90	110				
Sulfate	24.23	1.0	25.00		96.9	90	110				

Sample ID: **1511C51-001GMS** Client ID: Units: **mg/L** Prep Date: Run No: **304750**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R304750** Analysis Date: **11/13/2015** Seq No: **6526552**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	54.85	2.5	50.00	4.715	100	90	110				
Sulfate	262.0	10	250.0	24.04	95.2	90	110				

Sample ID: **1511C52-001GMS** Client ID: Units: **mg/L** Prep Date: Run No: **304750**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R304750** Analysis Date: **11/13/2015** Seq No: **6526557**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	51.72	2.5	50.00		103	90	110				
Sulfate	287.8	10	250.0	34.14	101	90	110				

Sample ID: **1511C51-001GMSD** Client ID: Units: **mg/L** Prep Date: Run No: **304750**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R304750** Analysis Date: **11/13/2015** Seq No: **6526553**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	59.91	2.5	50.00	4.715	110	90	110	54.85	8.82	20	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: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511E04

ANALYTICAL QC SUMMARY REPORT

BatchID: R304750

Sample ID: **1511C51-001GMSD** Client ID:
SampleType: **MSD** TestCode: **ION SCAN SW9056A**
Units: **mg/L** Prep Date: Run No: **304750**
BatchID: **R304750** Analysis Date: **11/13/2015** Seq No: **6526553**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	277.0	10	250.0	24.04	101	90	110	262.0	5.56	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.

November 23, 2015

Rhonda Quinn
AMEC E&I, Inc. -Kennesaw
1075 Big Shanty Rd NW
Kennesaw GA 30144

TEL: (770) 421-3400
FAX: (770) 421-3486

RE: BFEL-Atlanta

Dear Rhonda Quinn: Order No: 1511F17

Analytical Environmental Services, Inc. received 10 samples on 11/16/2015 5:15:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' 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 09/01/17.

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.

Ioana Pacurar

Ioana Pacurar
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

Date: 11/16/15 Page 1 of 1

COMPANY:	ADDRESS:
Amec Foster Wheeler	1075 Big Shanty Rd, Ste 100 Kennesaw, GA 30144
PHONE: 770-421-3400	FAX: 770-421-3486
SAMPLED BY: D Howard, M Bowen, E Gullen, M Andrews	SIGNATURE: Daniel Howard

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs list + 8260	Pest 8081A	Tot metals 6020	Diss Metals 6020	NO3,SO4/9056	PRESERVATION (See codes)	REMARKS	No # of Containers
1	TB-05	11/16/15	1000	X		W	2					H+I		2
2	TW-6		1107	X		GW	2	2	1	1	1			7
3	MW-114		1545	X		GW	2	2	1	1	1			7
4	MW-109		1315	X		GW	2	2	1	1	1			7
5	OW-1		1105	X		GW		2	1	1	1			5
6	DUP-02		1200	X		GW		2	1	1	1			5
7	MW-117		1615	X		GW		2	1	1	1			5
8	MW-115	↓	1420	X		GW	2	2	1	1	1			7
9	~~Temp Blank~~													
10	MW-111	11/16/15	1443	X		GW	2	2	1	1	1			7
11	MW-113	↓	1508	X		GW	2	2	1	1	1			7
12	Temp Blank													
13														
14														

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

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Daniel Howard	11/16/15/1630	1: Rickie	11.16.15 5:31pm
2: Rickie	11.16.15/5:15pm	2:	11-16-15 1715
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:
* Diss metals will be filtered by the Lab
Metals: As, Pb, Cu, Zn

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

PROJECT INFORMATION
PROJECT NAME: BFEL Atlanta
PROJECT #: 6132080154.18
SITE ADDRESS: 1525 Pine St Atlanta, GA
SEND REPORT TO: Rhonda Quinn
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers

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): GA
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: AMEC E&I, Inc. -Kennesaw
Project: BFEL-Atlanta
Lab ID: 1511F17

Case Narrative

IC Analysis by Method 9056A :

Due to sample matrix, sample(s) 1511F17-004E, -005D, -006D, -008E, -009E, and -010E required a dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc

Date: 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-05
Project Name:	BFEL-Atlanta	**Collection Date:**	11/16/2015 10:00:00 AM
Lab ID:	1511F17-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
1,1-Dichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
1,1-Dichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
1,1-Dichloropropene	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
1,2-Dichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
1,2-Dichloropropane	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
1,4-Dioxane	BRL	150		ug/L	216197	1	11/19/2015 16:44	NP
2-Butanone	BRL	50		ug/L	216197	1	11/19/2015 16:44	NP
4-Methyl-2-pentanone	BRL	10		ug/L	216197	1	11/19/2015 16:44	NP
Acetone	BRL	50		ug/L	216197	1	11/19/2015 16:44	NP
Benzene	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
Carbon disulfide	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
Carbon tetrachloride	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
Chlorobenzene	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
Chloroethane	BRL	10		ug/L	216197	1	11/19/2015 16:44	NP
Chloroform	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
Chloromethane	BRL	10		ug/L	216197	1	11/19/2015 16:44	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
Cyclohexane	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
Ethylbenzene	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
Isobutyl Alcohol	BRL	200		ug/L	216197	1	11/19/2015 16:44	NP
Isopropylbenzene	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
Methylene chloride	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
Naphthalene	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
Styrene	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
Tetrachloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
Tetrahydrofuran	BRL	10		ug/L	216197	1	11/19/2015 16:44	NP
Toluene	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
Trichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
Trichlorofluoromethane	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
Vinyl chloride	BRL	2.0		ug/L	216197	1	11/19/2015 16:44	NP
Xylenes, Total	BRL	5.0		ug/L	216197	1	11/19/2015 16:44	NP
Surr: 4-Bromofluorobenzene	93.4	70.7-125		%REC	216197	1	11/19/2015 16:44	NP
Surr: Dibromofluoromethane	106	82.2-120		%REC	216197	1	11/19/2015 16:44	NP
Surr: Toluene-d8	90.2	81.8-120		%REC	216197	1	11/19/2015 16:44	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-6
Project Name:	BFEL-Atlanta	**Collection Date:**	11/16/2015 11:07:00 AM
Lab ID:	1511F17-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
1,1-Dichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
1,1-Dichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
1,1-Dichloropropene	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
1,2-Dichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
1,2-Dichloropropane	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
1,4-Dioxane	BRL	150		ug/L	216197	1	11/19/2015 17:09	NP
2-Butanone	BRL	50		ug/L	216197	1	11/19/2015 17:09	NP
4-Methyl-2-pentanone	BRL	10		ug/L	216197	1	11/19/2015 17:09	NP
Acetone	BRL	50		ug/L	216197	1	11/19/2015 17:09	NP
Benzene	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
Carbon disulfide	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
Carbon tetrachloride	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
Chlorobenzene	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
Chloroethane	BRL	10		ug/L	216197	1	11/19/2015 17:09	NP
Chloroform	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
Chloromethane	BRL	10		ug/L	216197	1	11/19/2015 17:09	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
Cyclohexane	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
Ethylbenzene	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
Isobutyl Alcohol	BRL	200		ug/L	216197	1	11/19/2015 17:09	NP
Isopropylbenzene	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
Methylene chloride	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
Naphthalene	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
Styrene	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
Tetrachloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
Tetrahydrofuran	BRL	10		ug/L	216197	1	11/19/2015 17:09	NP
Toluene	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
Trichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
Trichlorofluoromethane	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
Vinyl chloride	BRL	2.0		ug/L	216197	1	11/19/2015 17:09	NP
Xylenes, Total	BRL	5.0		ug/L	216197	1	11/19/2015 17:09	NP
Surr: 4-Bromofluorobenzene	71.4	70.7-125		%REC	216197	1	11/19/2015 17:09	NP
Surr: Dibromofluoromethane	103	82.2-120		%REC	216197	1	11/19/2015 17:09	NP
Surr: Toluene-d8	89.4	81.8-120		%REC	216197	1	11/19/2015 17:09	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

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:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-6
Project Name:	BFEL-Atlanta	**Collection Date:**	11/16/2015 11:07:00 AM
Lab ID:	1511F17-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	5.87	5.00		ug/L	216035	1	11/19/2015 19:15	JS
Copper	643	2.00		ug/L	216035	1	11/19/2015 19:15	JS
Lead	BRL	1.00		ug/L	216035	1	11/19/2015 19:15	JS
Zinc	35700	10.0		ug/L	216035	5	11/20/2015 15:36	JS
ION SCAN SW9056A								
Nitrate	19	12		mg/L	R304847	50	11/17/2015 12:22	JW
Sulfate	1900	50		mg/L	R304847	50	11/17/2015 12:22	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	BRL	5.00		ug/L	215864	1	11/18/2015 01:43	JS
Copper	556	2.00		ug/L	215864	1	11/18/2015 01:43	JS
Lead	BRL	1.00		ug/L	215864	1	11/18/2015 01:43	JS
Zinc	29300	50.0		ug/L	215864	5	01/18/2015 19:28	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**			
4,4´-DDD	BRL	0.10		ug/L	216110	1	11/20/2015 12:33	SH
4,4´-DDE	BRL	0.10		ug/L	216110	1	11/20/2015 12:33	SH
4,4´-DDT	BRL	0.10		ug/L	216110	1	11/20/2015 12:33	SH
alpha-BHC	2.1	0.25		ug/L	216110	5	11/20/2015 14:14	SH
alpha-Chlordane	BRL	0.050		ug/L	216110	1	11/20/2015 12:33	SH
beta-BHC	1.5	0.050		ug/L	216110	1	11/20/2015 12:33	SH
delta-BHC	0.41	0.050		ug/L	216110	1	11/20/2015 12:33	SH
Dieldrin	BRL	0.10		ug/L	216110	1	11/20/2015 12:33	SH
gamma-BHC	0.91	0.050		ug/L	216110	1	11/20/2015 12:33	SH
gamma-Chlordane	BRL	0.050		ug/L	216110	1	11/20/2015 12:33	SH
Heptachlor	BRL	0.050		ug/L	216110	1	11/20/2015 12:33	SH
Methoxychlor	BRL	0.50		ug/L	216110	1	11/20/2015 12:33	SH
Toxaphene	BRL	5.0		ug/L	216110	1	11/20/2015 12:33	SH
Surr: Decachlorobiphenyl	38.8	14.5-127		%REC	216110	1	11/20/2015 12:33	SH
Surr: Tetrachloro-m-xylene	47.8	20.9-122		%REC	216110	1	11/20/2015 12:33	SH

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:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-114
Project Name:	BFEL-Atlanta	**Collection Date:**	11/16/2015 3:45:00 PM
Lab ID:	1511F17-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
1,1-Dichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
1,1-Dichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
1,1-Dichloropropene	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
1,2-Dichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
1,2-Dichloropropane	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
1,4-Dioxane	BRL	150		ug/L	216197	1	11/19/2015 18:43	NP
2-Butanone	BRL	50		ug/L	216197	1	11/19/2015 18:43	NP
4-Methyl-2-pentanone	BRL	10		ug/L	216197	1	11/19/2015 18:43	NP
Acetone	BRL	50		ug/L	216197	1	11/19/2015 18:43	NP
Benzene	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
Carbon disulfide	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
Carbon tetrachloride	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
Chlorobenzene	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
Chloroethane	BRL	10		ug/L	216197	1	11/19/2015 18:43	NP
Chloroform	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
Chloromethane	BRL	10		ug/L	216197	1	11/19/2015 18:43	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
Cyclohexane	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
Ethylbenzene	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
Isobutyl Alcohol	BRL	200		ug/L	216197	1	11/19/2015 18:43	NP
Isopropylbenzene	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
Methylene chloride	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
Naphthalene	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
Styrene	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
Tetrachloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
Tetrahydrofuran	BRL	10		ug/L	216197	1	11/19/2015 18:43	NP
Toluene	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
Trichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
Trichlorofluoromethane	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
Vinyl chloride	BRL	2.0		ug/L	216197	1	11/19/2015 18:43	NP
Xylenes, Total	BRL	5.0		ug/L	216197	1	11/19/2015 18:43	NP
Surr: 4-Bromofluorobenzene	95.7	70.7-125		%REC	216197	1	11/19/2015 18:43	NP
Surr: Dibromofluoromethane	104	82.2-120		%REC	216197	1	11/19/2015 18:43	NP
Surr: Toluene-d8	96.2	81.8-120		%REC	216197	1	11/19/2015 18:43	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

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:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-114
Project Name:	BFEL-Atlanta	**Collection Date:**	11/16/2015 3:45:00 PM
Lab ID:	1511F17-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	216035	1	11/19/2015 19:20	JS
Copper	1570	2.00		ug/L	216035	1	11/19/2015 19:20	JS
Lead	2.95	1.00		ug/L	216035	1	11/19/2015 19:20	JS
Zinc	7530	10.0		ug/L	216035	1	11/19/2015 19:20	JS
ION SCAN SW9056A								
Nitrate	27	5.0		mg/L	R304847	20	11/17/2015 13:22	JW
Sulfate	500	20		mg/L	R304847	20	11/17/2015 13:22	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215864	1	11/18/2015 01:49	JS
Copper	1320	2.00		ug/L	215864	1	11/18/2015 01:49	JS
Lead	2.47	1.00		ug/L	215864	1	11/18/2015 01:49	JS
Zinc	5630	10.0		ug/L	215864	1	01/18/2015 19:34	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	216110	1	11/20/2015 12:45	SH
4,4´-DDE	BRL	0.10		ug/L	216110	1	11/20/2015 12:45	SH
4,4´-DDT	BRL	0.10		ug/L	216110	1	11/20/2015 12:45	SH
alpha-BHC	0.18	0.050		ug/L	216110	1	11/20/2015 12:45	SH
alpha-Chlordane	BRL	0.050		ug/L	216110	1	11/20/2015 12:45	SH
beta-BHC	2.2	0.25		ug/L	216110	5	11/20/2015 14:25	SH
delta-BHC	0.082	0.050		ug/L	216110	1	11/20/2015 12:45	SH
Dieldrin	BRL	0.10		ug/L	216110	1	11/20/2015 12:45	SH
gamma-BHC	0.14	0.050		ug/L	216110	1	11/20/2015 12:45	SH
gamma-Chlordane	BRL	0.050		ug/L	216110	1	11/20/2015 12:45	SH
Heptachlor	BRL	0.050		ug/L	216110	1	11/20/2015 12:45	SH
Methoxychlor	BRL	0.50		ug/L	216110	1	11/20/2015 12:45	SH
Toxaphene	BRL	5.0		ug/L	216110	1	11/20/2015 12:45	SH
Surr: Decachlorobiphenyl	70.2	14.5-127		%REC	216110	1	11/20/2015 12:45	SH
Surr: Tetrachloro-m-xylene	77.6	20.9-122		%REC	216110	1	11/20/2015 12:45	SH

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:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-109
Project Name:	BFEL-Atlanta	**Collection Date:**	11/16/2015 1:15:00 PM
Lab ID:	1511F17-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
1,1-Dichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
1,1-Dichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
1,1-Dichloropropene	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
1,2-Dichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
1,2-Dichloropropane	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
1,4-Dioxane	BRL	150		ug/L	216197	1	11/19/2015 20:19	NP
2-Butanone	BRL	50		ug/L	216197	1	11/19/2015 20:19	NP
4-Methyl-2-pentanone	BRL	10		ug/L	216197	1	11/19/2015 20:19	NP
Acetone	BRL	50		ug/L	216197	1	11/19/2015 20:19	NP
Benzene	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
Carbon disulfide	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
Carbon tetrachloride	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
Chlorobenzene	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
Chloroethane	BRL	10		ug/L	216197	1	11/19/2015 20:19	NP
Chloroform	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
Chloromethane	BRL	10		ug/L	216197	1	11/19/2015 20:19	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
Cyclohexane	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
Ethylbenzene	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
Isobutyl Alcohol	BRL	200		ug/L	216197	1	11/19/2015 20:19	NP
Isopropylbenzene	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
Methylene chloride	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
Naphthalene	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
Styrene	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
Tetrachloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
Tetrahydrofuran	BRL	10		ug/L	216197	1	11/19/2015 20:19	NP
Toluene	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
Trichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
Trichlorofluoromethane	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
Vinyl chloride	BRL	2.0		ug/L	216197	1	11/19/2015 20:19	NP
Xylenes, Total	BRL	5.0		ug/L	216197	1	11/19/2015 20:19	NP
Surr: 4-Bromofluorobenzene	95.2	70.7-125		%REC	216197	1	11/19/2015 20:19	NP
Surr: Dibromofluoromethane	104	82.2-120		%REC	216197	1	11/19/2015 20:19	NP
Surr: Toluene-d8	95.9	81.8-120		%REC	216197	1	11/19/2015 20:19	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

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:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-109
Project Name:	BFEL-Atlanta	**Collection Date:**	11/16/2015 1:15:00 PM
Lab ID:	1511F17-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	116	5.00		ug/L	216035	5	11/20/2015 15:41	JS
Copper	82.2	2.00		ug/L	216035	5	11/20/2015 15:41	JS
Lead	901	1.00		ug/L	216035	5	11/20/2015 15:41	JS
Zinc	23400	10.0		ug/L	216035	5	11/20/2015 15:41	JS
ION SCAN SW9056A								
Nitrate	BRL	25		mg/L	R304847	100	11/17/2015 13:37	JW
Sulfate	1400	100		mg/L	R304847	100	11/17/2015 13:37	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	112	5.00		ug/L	215864	1	11/18/2015 01:56	JS
Copper	65.6	2.00		ug/L	215864	1	11/18/2015 01:56	JS
Lead	710	1.00		ug/L	215864	1	11/18/2015 01:56	JS
Zinc	19000	50.0		ug/L	215864	5	01/18/2015 20:18	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**			
4,4´-DDD	BRL	0.10		ug/L	216110	1	11/20/2015 12:56	SH
4,4´-DDE	BRL	0.10		ug/L	216110	1	11/20/2015 12:56	SH
4,4´-DDT	BRL	0.10		ug/L	216110	1	11/20/2015 12:56	SH
alpha-BHC	34	2.5		ug/L	216110	50	11/20/2015 14:47	SH
alpha-Chlordane	BRL	0.050		ug/L	216110	1	11/20/2015 12:56	SH
beta-BHC	3.5	0.50		ug/L	216110	10	11/20/2015 14:36	SH
delta-BHC	3.8	0.50		ug/L	216110	10	11/20/2015 14:36	SH
Dieldrin	BRL	0.10		ug/L	216110	1	11/20/2015 12:56	SH
gamma-BHC	20	2.5		ug/L	216110	50	11/20/2015 14:47	SH
gamma-Chlordane	BRL	0.050		ug/L	216110	1	11/20/2015 12:56	SH
Heptachlor	BRL	0.050		ug/L	216110	1	11/20/2015 12:56	SH
Methoxychlor	BRL	0.50		ug/L	216110	1	11/20/2015 12:56	SH
Toxaphene	BRL	5.0		ug/L	216110	1	11/20/2015 12:56	SH
Surr: Decachlorobiphenyl	78.2	14.5-127		%REC	216110	1	11/20/2015 12:56	SH
Surr: Tetrachloro-m-xylene	63.3	20.9-122		%REC	216110	1	11/20/2015 12:56	SH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	OW-1
Project Name:	BFEL-Atlanta	**Collection Date:**	11/16/2015 11:05:00 AM
Lab ID:	1511F17-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	64.4	5.00		ug/L	216035	2	11/20/2015 15:46	JS
Copper	483	2.00		ug/L	216035	2	11/20/2015 15:46	JS
Lead	1.01	1.00		ug/L	216035	2	11/20/2015 15:46	JS
Zinc	9540	10.0		ug/L	216035	2	11/20/2015 15:46	JS
ION SCAN SW9056A								
Nitrate	BRL	5.0		mg/L	R304847	20	11/17/2015 13:52	JW
Sulfate	530	20		mg/L	R304847	20	11/17/2015 13:52	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	21.4	5.00		ug/L	215864	1	11/18/2015 02:02	JS
Copper	220	2.00		ug/L	215864	1	11/18/2015 02:02	JS
Lead	1.06	1.00		ug/L	215864	1	01/18/2015 20:24	JS
Zinc	7490	10.0		ug/L	215864	1	01/18/2015 20:24	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**			
4,4´-DDD	0.19	0.10		ug/L	216110	1	11/20/2015 13:07	SH
4,4´-DDE	BRL	0.10		ug/L	216110	1	11/20/2015 13:07	SH
4,4´-DDT	BRL	0.10		ug/L	216110	1	11/20/2015 13:07	SH
alpha-BHC	6.7	1.0		ug/L	216110	20	11/20/2015 14:58	SH
alpha-Chlordane	BRL	0.050		ug/L	216110	1	11/20/2015 13:07	SH
beta-BHC	3.4	1.0		ug/L	216110	20	11/20/2015 14:58	SH
delta-BHC	13	1.0		ug/L	216110	20	11/20/2015 14:58	SH
Dieldrin	BRL	0.10		ug/L	216110	1	11/20/2015 13:07	SH
gamma-BHC	5.9	1.0		ug/L	216110	20	11/20/2015 14:58	SH
gamma-Chlordane	BRL	0.050		ug/L	216110	1	11/20/2015 13:07	SH
Heptachlor	BRL	0.050		ug/L	216110	1	11/20/2015 13:07	SH
Methoxychlor	BRL	0.50		ug/L	216110	1	11/20/2015 13:07	SH
Toxaphene	BRL	5.0		ug/L	216110	1	11/20/2015 13:07	SH
Surr: Decachlorobiphenyl	56.7	14.5-127		%REC	216110	1	11/20/2015 13:07	SH
Surr: Tetrachloro-m-xylene	65.4	20.9-122		%REC	216110	1	11/20/2015 13:07	SH

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:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	DUP-02
Project Name:	BFEL-Atlanta	**Collection Date:**	11/16/2015 12:00:00 PM
Lab ID:	1511F17-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	115	5.00		ug/L	216035	5	11/20/2015 15:51	JS
Copper	83.1	2.00		ug/L	216035	5	11/20/2015 15:51	JS
Lead	873	1.00		ug/L	216035	5	11/20/2015 15:51	JS
Zinc	23500	10.0		ug/L	216035	5	11/20/2015 15:51	JS
ION SCAN SW9056A								
Nitrate	BRL	25		mg/L	R304847	100	11/17/2015 14:07	JW
Sulfate	1400	100		mg/L	R304847	100	11/17/2015 14:07	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	108	5.00		ug/L	215864	1	11/18/2015 02:08	JS
Copper	66.3	2.00		ug/L	215864	1	11/18/2015 02:08	JS
Lead	520	1.00		ug/L	215864	1	11/18/2015 02:08	JS
Zinc	22100	50.0		ug/L	215864	5	01/18/2015 20:31	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**			
4,4´-DDD	BRL	0.10		ug/L	216110	1	11/20/2015 13:18	SH
4,4´-DDE	BRL	0.10		ug/L	216110	1	11/20/2015 13:18	SH
4,4´-DDT	BRL	0.10		ug/L	216110	1	11/20/2015 13:18	SH
alpha-BHC	35	2.0		ug/L	216110	40	11/20/2015 15:34	SH
alpha-Chlordane	BRL	0.050		ug/L	216110	1	11/20/2015 13:18	SH
beta-BHC	4.5	1.0		ug/L	216110	20	11/20/2015 15:09	SH
delta-BHC	4.2	1.0		ug/L	216110	20	11/20/2015 15:09	SH
Dieldrin	BRL	0.10		ug/L	216110	1	11/20/2015 13:18	SH
gamma-BHC	21	1.0		ug/L	216110	20	11/20/2015 15:09	SH
gamma-Chlordane	BRL	0.050		ug/L	216110	1	11/20/2015 13:18	SH
Heptachlor	BRL	0.050		ug/L	216110	1	11/20/2015 13:18	SH
Methoxychlor	BRL	0.50		ug/L	216110	1	11/20/2015 13:18	SH
Toxaphene	BRL	5.0		ug/L	216110	1	11/20/2015 13:18	SH
Surr: Decachlorobiphenyl	73.9	14.5-127		%REC	216110	1	11/20/2015 13:18	SH
Surr: Tetrachloro-m-xylene	72.9	20.9-122		%REC	216110	1	11/20/2015 13:18	SH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-117
Project Name:	BFEL-Atlanta	**Collection Date:**	11/16/2015 4:15:00 PM
Lab ID:	1511F17-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	BRL	5.00		ug/L	216035	1	11/19/2015 19:40	JS
Copper	32.1	2.00		ug/L	216035	1	11/20/2015 15:56	JS
Lead	1.75	1.00		ug/L	216035	1	11/20/2015 15:56	JS
Zinc	867	10.0		ug/L	216035	1	11/20/2015 15:56	JS
ION SCAN SW9056A								
Nitrate	4.0	0.25		mg/L	R304847	1	11/17/2015 11:21	JW
Sulfate	140	10		mg/L	R304847	10	11/17/2015 14:22	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	BRL	5.00		ug/L	215864	1	11/18/2015 02:15	JS
Copper	27.2	2.00		ug/L	215864	1	11/18/2015 02:15	JS
Lead	1.12	1.00		ug/L	215864	1	11/19/2015 17:16	JS
Zinc	682	10.0		ug/L	215864	1	01/18/2015 20:37	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**			
4,4´-DDD	BRL	0.10		ug/L	216110	1	11/20/2015 13:29	SH
4,4´-DDE	BRL	0.10		ug/L	216110	1	11/20/2015 13:29	SH
4,4´-DDT	BRL	0.10		ug/L	216110	1	11/20/2015 13:29	SH
alpha-BHC	BRL	0.050		ug/L	216110	1	11/20/2015 13:29	SH
alpha-Chlordane	BRL	0.050		ug/L	216110	1	11/20/2015 13:29	SH
beta-BHC	BRL	0.050		ug/L	216110	1	11/20/2015 13:29	SH
delta-BHC	BRL	0.050		ug/L	216110	1	11/20/2015 13:29	SH
Dieldrin	BRL	0.10		ug/L	216110	1	11/20/2015 13:29	SH
gamma-BHC	BRL	0.050		ug/L	216110	1	11/20/2015 13:29	SH
gamma-Chlordane	BRL	0.050		ug/L	216110	1	11/20/2015 13:29	SH
Heptachlor	BRL	0.050		ug/L	216110	1	11/20/2015 13:29	SH
Methoxychlor	BRL	0.50		ug/L	216110	1	11/20/2015 13:29	SH
Toxaphene	BRL	5.0		ug/L	216110	1	11/20/2015 13:29	SH
Surr: Decachlorobiphenyl	68.1	14.5-127		%REC	216110	1	11/20/2015 13:29	SH
Surr: Tetrachloro-m-xylene	75.8	20.9-122		%REC	216110	1	11/20/2015 13:29	SH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-115
Project Name:	BFEL-Atlanta	**Collection Date:**	11/16/2015 2:20:00 PM
Lab ID:	1511F17-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
1,1-Dichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
1,1-Dichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
1,1-Dichloropropene	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
1,2-Dichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
1,2-Dichloropropane	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
1,4-Dioxane	BRL	150		ug/L	216197	1	11/19/2015 19:07	NP
2-Butanone	BRL	50		ug/L	216197	1	11/19/2015 19:07	NP
4-Methyl-2-pentanone	BRL	10		ug/L	216197	1	11/19/2015 19:07	NP
Acetone	BRL	50		ug/L	216197	1	11/19/2015 19:07	NP
Benzene	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
Carbon disulfide	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
Carbon tetrachloride	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
Chlorobenzene	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
Chloroethane	BRL	10		ug/L	216197	1	11/19/2015 19:07	NP
Chloroform	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
Chloromethane	BRL	10		ug/L	216197	1	11/19/2015 19:07	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
Cyclohexane	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
Ethylbenzene	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
Isobutyl Alcohol	BRL	200		ug/L	216197	1	11/19/2015 19:07	NP
Isopropylbenzene	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
Methylene chloride	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
Naphthalene	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
Styrene	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
Tetrachloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
Tetrahydrofuran	BRL	10		ug/L	216197	1	11/19/2015 19:07	NP
Toluene	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
Trichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
Trichlorofluoromethane	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
Vinyl chloride	BRL	2.0		ug/L	216197	1	11/19/2015 19:07	NP
Xylenes, Total	BRL	5.0		ug/L	216197	1	11/19/2015 19:07	NP
Surr: 4-Bromofluorobenzene	95.2	70.7-125		%REC	216197	1	11/19/2015 19:07	NP
Surr: Dibromofluoromethane	103	82.2-120		%REC	216197	1	11/19/2015 19:07	NP
Surr: Toluene-d8	97.3	81.8-120		%REC	216197	1	11/19/2015 19:07	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

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:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-115
Project Name:	BFEL-Atlanta	**Collection Date:**	11/16/2015 2:20:00 PM
Lab ID:	1511F17-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	216035	1	11/19/2015 19:46	JS
Copper	3510	2.00		ug/L	216035	1	11/19/2015 19:46	JS
Lead	1.68	1.00		ug/L	216035	1	11/19/2015 19:46	JS
Zinc	8470	10.0		ug/L	216035	1	11/19/2015 19:46	JS
ION SCAN SW9056A								
Nitrate	BRL	12		mg/L	R304847	50	11/17/2015 14:38	JW
Sulfate	690	50		mg/L	R304847	50	11/17/2015 14:38	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215864	1	11/18/2015 02:40	JS
Copper	3480	2.00		ug/L	215864	1	01/18/2015 20:43	JS
Lead	1.30	1.00		ug/L	215864	1	11/18/2015 02:40	JS
Zinc	7600	10.0		ug/L	215864	1	01/18/2015 20:43	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	216110	1	11/20/2015 13:41	SH
4,4´-DDE	BRL	0.10		ug/L	216110	1	11/20/2015 13:41	SH
4,4´-DDT	BRL	0.10		ug/L	216110	1	11/20/2015 13:41	SH
alpha-BHC	0.33	0.050		ug/L	216110	1	11/20/2015 13:41	SH
alpha-Chlordane	BRL	0.050		ug/L	216110	1	11/20/2015 13:41	SH
beta-BHC	0.37	0.050		ug/L	216110	1	11/20/2015 13:41	SH
delta-BHC	BRL	0.050		ug/L	216110	1	11/20/2015 13:41	SH
Dieldrin	BRL	0.10		ug/L	216110	1	11/20/2015 13:41	SH
gamma-BHC	0.076	0.050		ug/L	216110	1	11/20/2015 13:41	SH
gamma-Chlordane	BRL	0.050		ug/L	216110	1	11/20/2015 13:41	SH
Heptachlor	BRL	0.050		ug/L	216110	1	11/20/2015 13:41	SH
Methoxychlor	BRL	0.50		ug/L	216110	1	11/20/2015 13:41	SH
Toxaphene	BRL	5.0		ug/L	216110	1	11/20/2015 13:41	SH
Surr: Decachlorobiphenyl	78.5	14.5-127		%REC	216110	1	11/20/2015 13:41	SH
Surr: Tetrachloro-m-xylene	78	20.9-122		%REC	216110	1	11/20/2015 13:41	SH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-111
Project Name:	BFEL-Atlanta	**Collection Date:**	11/16/2015 2:43:00 PM
Lab ID:	1511F17-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
1,1-Dichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
1,1-Dichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
1,1-Dichloropropene	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
1,2-Dichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
1,2-Dichloropropane	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
1,4-Dioxane	BRL	150		ug/L	216197	1	11/19/2015 19:31	NP
2-Butanone	BRL	50		ug/L	216197	1	11/19/2015 19:31	NP
4-Methyl-2-pentanone	BRL	10		ug/L	216197	1	11/19/2015 19:31	NP
Acetone	BRL	50		ug/L	216197	1	11/19/2015 19:31	NP
Benzene	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
Carbon disulfide	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
Carbon tetrachloride	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
Chlorobenzene	93	5.0		ug/L	216197	1	11/19/2015 19:31	NP
Chloroethane	BRL	10		ug/L	216197	1	11/19/2015 19:31	NP
Chloroform	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
Chloromethane	BRL	10		ug/L	216197	1	11/19/2015 19:31	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
Cyclohexane	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
Ethylbenzene	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
Isobutyl Alcohol	BRL	200		ug/L	216197	1	11/19/2015 19:31	NP
Isopropylbenzene	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
Methylene chloride	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
Naphthalene	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
Styrene	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
Tetrachloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
Tetrahydrofuran	BRL	10		ug/L	216197	1	11/19/2015 19:31	NP
Toluene	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
Trichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
Trichlorofluoromethane	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
Vinyl chloride	BRL	2.0		ug/L	216197	1	11/19/2015 19:31	NP
Xylenes, Total	BRL	5.0		ug/L	216197	1	11/19/2015 19:31	NP
Surr: 4-Bromofluorobenzene	95.3	70.7-125		%REC	216197	1	11/19/2015 19:31	NP
Surr: Dibromofluoromethane	108	82.2-120		%REC	216197	1	11/19/2015 19:31	NP
Surr: Toluene-d8	91.9	81.8-120		%REC	216197	1	11/19/2015 19:31	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-111
Project Name:	BFEL-Atlanta	**Collection Date:**	11/16/2015 2:43:00 PM
Lab ID:	1511F17-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	216035	1	11/19/2015 20:12	JS
Copper	24.1	2.00		ug/L	216035	1	11/19/2015 20:12	JS
Lead	BRL	1.00		ug/L	216035	1	11/19/2015 20:12	JS
Zinc	5450	10.0		ug/L	216035	1	11/19/2015 20:12	JS
ION SCAN SW9056A								
Nitrate	BRL	5.0		mg/L	R304847	20	11/17/2015 14:53	JW
Sulfate	500	20		mg/L	R304847	20	11/17/2015 14:53	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215864	1	11/18/2015 02:46	JS
Copper	32.0	2.00		ug/L	215864	1	01/18/2015 20:49	JS
Lead	BRL	1.00		ug/L	215864	1	11/18/2015 02:46	JS
Zinc	4360	10.0		ug/L	215864	1	01/18/2015 20:49	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	216110	1	11/20/2015 13:52	SH
4,4´-DDE	BRL	0.10		ug/L	216110	1	11/20/2015 13:52	SH
4,4´-DDT	BRL	0.10		ug/L	216110	1	11/20/2015 13:52	SH
alpha-BHC	19	2.5		ug/L	216110	50	11/20/2015 15:21	SH
alpha-Chlordane	BRL	0.050		ug/L	216110	1	11/20/2015 13:52	SH
beta-BHC	6.6	2.5		ug/L	216110	50	11/20/2015 15:21	SH
delta-BHC	59	2.5		ug/L	216110	50	11/20/2015 15:21	SH
Dieldrin	BRL	0.10		ug/L	216110	1	11/20/2015 13:52	SH
gamma-BHC	30	2.5		ug/L	216110	50	11/20/2015 15:21	SH
gamma-Chlordane	BRL	0.050		ug/L	216110	1	11/20/2015 13:52	SH
Heptachlor	BRL	0.050		ug/L	216110	1	11/20/2015 13:52	SH
Methoxychlor	BRL	0.50		ug/L	216110	1	11/20/2015 13:52	SH
Toxaphene	BRL	5.0		ug/L	216110	1	11/20/2015 13:52	SH
Surr: Decachlorobiphenyl	73	14.5-127		%REC	216110	1	11/20/2015 13:52	SH
Surr: Tetrachloro-m-xylene	65.3	20.9-122		%REC	216110	1	11/20/2015 13:52	SH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-113
Project Name:	BFEL-Atlanta	**Collection Date:**	11/16/2015 3:08:00 PM
Lab ID:	1511F17-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
1,1-Dichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
1,1-Dichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
1,1-Dichloropropene	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
1,2-Dichloroethane	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
1,2-Dichloropropane	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
1,4-Dioxane	BRL	150		ug/L	216197	1	11/19/2015 19:55	NP
2-Butanone	BRL	50		ug/L	216197	1	11/19/2015 19:55	NP
4-Methyl-2-pentanone	BRL	10		ug/L	216197	1	11/19/2015 19:55	NP
Acetone	BRL	50		ug/L	216197	1	11/19/2015 19:55	NP
Benzene	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
Carbon disulfide	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
Carbon tetrachloride	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
Chlorobenzene	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
Chloroethane	BRL	10		ug/L	216197	1	11/19/2015 19:55	NP
Chloroform	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
Chloromethane	BRL	10		ug/L	216197	1	11/19/2015 19:55	NP
cis-1,2-Dichloroethene	58	5.0		ug/L	216197	1	11/19/2015 19:55	NP
Cyclohexane	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
Ethylbenzene	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
Isobutyl Alcohol	BRL	200		ug/L	216197	1	11/19/2015 19:55	NP
Isopropylbenzene	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
Methylene chloride	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
Naphthalene	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
Styrene	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
Tetrachloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
Tetrahydrofuran	BRL	10		ug/L	216197	1	11/19/2015 19:55	NP
Toluene	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
Trichloroethene	51	5.0		ug/L	216197	1	11/19/2015 19:55	NP
Trichlorofluoromethane	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
Vinyl chloride	BRL	2.0		ug/L	216197	1	11/19/2015 19:55	NP
Xylenes, Total	BRL	5.0		ug/L	216197	1	11/19/2015 19:55	NP
Surr: 4-Bromofluorobenzene	95.7	70.7-125		%REC	216197	1	11/19/2015 19:55	NP
Surr: Dibromofluoromethane	105	82.2-120		%REC	216197	1	11/19/2015 19:55	NP
Surr: Toluene-d8	94.7	81.8-120		%REC	216197	1	11/19/2015 19:55	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 23-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-113
Project Name:	BFEL-Atlanta	**Collection Date:**	11/16/2015 3:08:00 PM
Lab ID:	1511F17-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	43.1	5.00		ug/L	216035	10	11/20/2015 16:07	JS
Copper	11400	2.00		ug/L	216035	10	11/20/2015 16:07	JS
Lead	BRL	1.00		ug/L	216035	10	11/20/2015 16:07	JS
Zinc	65600	10.0		ug/L	216035	10	11/20/2015 16:07	JS
ION SCAN SW9056A								
Nitrate	BRL	25		mg/L	R304847	100	11/17/2015 15:08	JW
Sulfate	1400	100		mg/L	R304847	100	11/17/2015 15:08	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	215864	1	11/18/2015 02:52	JS
Copper	11900	40.0		ug/L	215864	20	11/19/2015 17:21	JS
Lead	3.25	1.00		ug/L	215864	1	11/18/2015 02:52	JS
Zinc	70000	200		ug/L	215864	20	11/19/2015 17:21	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	216110	1	11/20/2015 14:03	SH
4,4´-DDE	BRL	0.10		ug/L	216110	1	11/20/2015 14:03	SH
4,4´-DDT	BRL	0.10		ug/L	216110	1	11/20/2015 14:03	SH
alpha-BHC	0.20	0.050		ug/L	216110	1	11/20/2015 14:03	SH
alpha-Chlordane	BRL	0.050		ug/L	216110	1	11/20/2015 14:03	SH
beta-BHC	0.69	0.050		ug/L	216110	1	11/20/2015 14:03	SH
delta-BHC	0.18	0.050		ug/L	216110	1	11/20/2015 14:03	SH
Dieldrin	BRL	0.10		ug/L	216110	1	11/20/2015 14:03	SH
gamma-BHC	0.24	0.050		ug/L	216110	1	11/20/2015 14:03	SH
gamma-Chlordane	BRL	0.050		ug/L	216110	1	11/20/2015 14:03	SH
Heptachlor	BRL	0.050		ug/L	216110	1	11/20/2015 14:03	SH
Methoxychlor	BRL	0.50		ug/L	216110	1	11/20/2015 14:03	SH
Toxaphene	BRL	5.0		ug/L	216110	1	11/20/2015 14:03	SH
Surr: Decachlorobiphenyl	76.4	14.5-127		%REC	216110	1	11/20/2015 14:03	SH
Surr: Tetrachloro-m-xylene	66.5	20.9-122		%REC	216110	1	11/20/2015 14:03	SH

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 Amec/Kennesaw Work Order Number 1511F17

Checklist completed by [signature] 11-16-15
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 3.6°C Cooler #3 3.3°C 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 __

Sample Condition: Good ✓ Adjusted? _____ Checked by CJ
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: 23-Nov-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1511F17

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1511F17-001A	TB-05	11/16/2015 10:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/19/2015 9:07:00AM	11/19/2015
1511F17-002A	TW-6	11/16/2015 11:07:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/19/2015 9:07:00AM	11/19/2015
1511F17-002B	TW-6	11/16/2015 11:07:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		11/19/2015 11:00:00AM	11/20/2015
1511F17-002C	TW-6	11/16/2015 11:07:00AM	Groundwater	Total Metals by ICP/MS		11/17/2015 1:00:00PM	11/19/2015
1511F17-002C	TW-6	11/16/2015 11:07:00AM	Groundwater	Total Metals by ICP/MS		11/17/2015 1:00:00PM	11/20/2015
1511F17-002D	TW-6	11/16/2015 11:07:00AM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	01/18/2015
1511F17-002D	TW-6	11/16/2015 11:07:00AM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	11/18/2015
1511F17-002E	TW-6	11/16/2015 11:07:00AM	Groundwater	ION SCAN			11/17/2015
1511F17-003A	MW-114	11/16/2015 3:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/19/2015 9:07:00AM	11/19/2015
1511F17-003B	MW-114	11/16/2015 3:45:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/19/2015 11:00:00AM	11/20/2015
1511F17-003C	MW-114	11/16/2015 3:45:00PM	Groundwater	Total Metals by ICP/MS		11/17/2015 1:00:00PM	11/19/2015
1511F17-003D	MW-114	11/16/2015 3:45:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	01/18/2015
1511F17-003D	MW-114	11/16/2015 3:45:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	11/18/2015
1511F17-003E	MW-114	11/16/2015 3:45:00PM	Groundwater	ION SCAN			11/17/2015
1511F17-004A	MW-109	11/16/2015 1:15:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/19/2015 9:07:00AM	11/19/2015
1511F17-004B	MW-109	11/16/2015 1:15:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/19/2015 11:00:00AM	11/20/2015
1511F17-004C	MW-109	11/16/2015 1:15:00PM	Groundwater	Total Metals by ICP/MS		11/17/2015 1:00:00PM	11/20/2015
1511F17-004D	MW-109	11/16/2015 1:15:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	01/18/2015
1511F17-004D	MW-109	11/16/2015 1:15:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	11/18/2015
1511F17-004E	MW-109	11/16/2015 1:15:00PM	Groundwater	ION SCAN			11/17/2015
1511F17-005A	OW-1	11/16/2015 11:05:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		11/19/2015 11:00:00AM	11/20/2015
1511F17-005B	OW-1	11/16/2015 11:05:00AM	Groundwater	Total Metals by ICP/MS		11/17/2015 1:00:00PM	11/20/2015
1511F17-005C	OW-1	11/16/2015 11:05:00AM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	01/18/2015
1511F17-005C	OW-1	11/16/2015 11:05:00AM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	11/18/2015
1511F17-005D	OW-1	11/16/2015 11:05:00AM	Groundwater	ION SCAN			11/17/2015
1511F17-006A	DUP-02	11/16/2015 12:00:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/19/2015 11:00:00AM	11/20/2015
1511F17-006B	DUP-02	11/16/2015 12:00:00PM	Groundwater	Total Metals by ICP/MS		11/17/2015 1:00:00PM	11/20/2015
1511F17-006C	DUP-02	11/16/2015 12:00:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	01/18/2015
1511F17-006C	DUP-02	11/16/2015 12:00:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	11/18/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1511F17

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1511F17-006D	DUP-02	11/16/2015 12:00:00PM	Groundwater	ION SCAN			11/17/2015
1511F17-007A	MW-117	11/16/2015 4:15:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/19/2015 11:00:00AM	11/20/2015
1511F17-007B	MW-117	11/16/2015 4:15:00PM	Groundwater	Total Metals by ICP/MS		11/17/2015 1:00:00PM	11/19/2015
1511F17-007B	MW-117	11/16/2015 4:15:00PM	Groundwater	Total Metals by ICP/MS		11/17/2015 1:00:00PM	11/20/2015
1511F17-007C	MW-117	11/16/2015 4:15:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	01/18/2015
1511F17-007C	MW-117	11/16/2015 4:15:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	11/18/2015
1511F17-007C	MW-117	11/16/2015 4:15:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	11/19/2015
1511F17-007D	MW-117	11/16/2015 4:15:00PM	Groundwater	ION SCAN			11/17/2015
1511F17-008A	MW-115	11/16/2015 2:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/19/2015 9:07:00AM	11/19/2015
1511F17-008B	MW-115	11/16/2015 2:20:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/19/2015 11:00:00AM	11/20/2015
1511F17-008C	MW-115	11/16/2015 2:20:00PM	Groundwater	Total Metals by ICP/MS		11/17/2015 1:00:00PM	11/19/2015
1511F17-008D	MW-115	11/16/2015 2:20:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	01/18/2015
1511F17-008D	MW-115	11/16/2015 2:20:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	11/18/2015
1511F17-008E	MW-115	11/16/2015 2:20:00PM	Groundwater	ION SCAN			11/17/2015
1511F17-009A	MW-111	11/16/2015 2:43:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/19/2015 9:07:00AM	11/19/2015
1511F17-009B	MW-111	11/16/2015 2:43:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/19/2015 11:00:00AM	11/20/2015
1511F17-009C	MW-111	11/16/2015 2:43:00PM	Groundwater	Total Metals by ICP/MS		11/17/2015 1:00:00PM	11/19/2015
1511F17-009D	MW-111	11/16/2015 2:43:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	01/18/2015
1511F17-009D	MW-111	11/16/2015 2:43:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	11/18/2015
1511F17-009E	MW-111	11/16/2015 2:43:00PM	Groundwater	ION SCAN			11/17/2015
1511F17-010A	MW-113	11/16/2015 3:08:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/19/2015 9:07:00AM	11/19/2015
1511F17-010B	MW-113	11/16/2015 3:08:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/19/2015 11:00:00AM	11/20/2015
1511F17-010C	MW-113	11/16/2015 3:08:00PM	Groundwater	Total Metals by ICP/MS		11/17/2015 1:00:00PM	11/20/2015
1511F17-010D	MW-113	11/16/2015 3:08:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	11/18/2015
1511F17-010D	MW-113	11/16/2015 3:08:00PM	Groundwater	Dissolved Metals by ICP/MS		11/17/2015 5:20:00PM	11/19/2015
1511F17-010E	MW-113	11/16/2015 3:08:00PM	Groundwater	ION SCAN			11/17/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511F17

ANALYTICAL QC SUMMARY REPORT

BatchID: 215864

Sample ID: **MB-215864** Client ID: Units: **ug/L** Prep Date: **11/17/2015** Run No: **304637**
SampleType: **MBLK** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215864** Analysis Date: **11/18/2015** Seq No: **6523573**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00									
Copper	BRL	2.00									
Lead	BRL	1.00									
Zinc	BRL	10.0									

Sample ID: **LCS-215864** Client ID: Units: **ug/L** Prep Date: **11/17/2015** Run No: **304637**
SampleType: **LCS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215864** Analysis Date: **11/18/2015** Seq No: **6523574**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	89.91	5.00	100.0	1.158	88.8	80	120				
Copper	91.53	2.00	100.0		91.5	80	120				
Lead	89.37	1.00	100.0		89.4	80	120				
Zinc	89.08	10.0	100.0		89.1	80	120				

Sample ID: **1511E04-005CMS** Client ID: Units: **ug/L** Prep Date: **11/17/2015** Run No: **304637**
SampleType: **MS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215864** Analysis Date: **11/18/2015** Seq No: **6523576**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	85.48	5.00	100.0	3.435	82.0	75	125				
Copper	773.7	2.00	100.0	692.4	81.3	75	125				
Lead	95.21	1.00	100.0	0.8280	94.4	75	125				
Zinc	5118	10.0	100.0	4919	199	75	125				S

Sample ID: **1511E04-005CMSD** Client ID: Units: **ug/L** Prep Date: **11/17/2015** Run No: **304637**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **215864** Analysis Date: **11/18/2015** Seq No: **6523577**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	87.59	5.00	100.0	3.435	84.2	75	125	85.48	2.44	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511F17

ANALYTICAL QC SUMMARY REPORT

BatchID: 215864

Sample ID: **1511E04-005CMSD** Client ID:
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A**
Units: **ug/L** Prep Date: **11/17/2015** Run No: **304637**
BatchID: **215864** Analysis Date: **11/18/2015** Seq No: **6523577**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	783.2	2.00	100.0	692.4	90.8	75	125	773.7	1.22	20	
Lead	96.10	1.00	100.0	0.8280	95.3	75	125	95.21	0.930	20	
Zinc	5200	10.0	100.0	4919	281	75	125	5118	1.59	20	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: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511F17

ANALYTICAL QC SUMMARY REPORT

BatchID: 216035

Sample ID: **MB-216035** Client ID: Units: **ug/L** Prep Date: **11/17/2015** Run No: **304825**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **216035** Analysis Date: **11/19/2015** Seq No: **6528585**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00									
Copper	BRL	2.00									
Lead	BRL	1.00									
Zinc	BRL	10.0									

Sample ID: **LCS-216035** Client ID: Units: **ug/L** Prep Date: **11/17/2015** Run No: **304825**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **216035** Analysis Date: **11/19/2015** Seq No: **6528586**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	99.42	5.00	100.0		99.4	80	120				
Copper	103.1	2.00	100.0		103	80	120				
Lead	108.6	1.00	100.0		109	80	120				
Zinc	99.07	10.0	100.0		99.1	80	120				

Sample ID: **1511E97-001FMS** Client ID: Units: **ug/L** Prep Date: **11/17/2015** Run No: **304825**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **216035** Analysis Date: **11/19/2015** Seq No: **6528591**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	93.98	5.00	100.0	0.5972	93.4	75	125				
Copper	98.61	2.00	100.0	4.267	94.3	75	125				
Lead	99.70	1.00	100.0	1.148	98.6	75	125				
Zinc	111.0	10.0	100.0	22.50	88.5	75	125				

Sample ID: **1511E97-001FMSD** Client ID: Units: **ug/L** Prep Date: **11/17/2015** Run No: **304825**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **216035** Analysis Date: **11/19/2015** Seq No: **6528594**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	95.54	5.00	100.0	0.5972	94.9	75	125	93.98	1.64	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511F17

ANALYTICAL QC SUMMARY REPORT

BatchID: 216035

Sample ID: **1511E97-001FMSD** Client ID:
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A**
Units: **ug/L** Prep Date: **11/17/2015** Run No: **304825**
BatchID: **216035** Analysis Date: **11/19/2015** Seq No: **6528594**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	99.56	2.00	100.0	4.267	95.3	75	125	98.61	0.956	20	
Lead	100.6	1.00	100.0	1.148	99.4	75	125	99.70	0.862	20	
Zinc	113.0	10.0	100.0	22.50	90.5	75	125	111.0	1.78	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511F17

ANALYTICAL QC SUMMARY REPORT

BatchID: 216110

Sample ID: **MB-216110** Client ID: Units: **ug/L** Prep Date: **11/19/2015** Run No: **304916**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **216110** Analysis Date: **11/21/2015** Seq No: **6530904**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDD	BRL	0.020									
4,4´-DDE	BRL	0.020									
4,4´-DDT	BRL	0.020									
alpha-BHC	BRL	0.010									
alpha-Chlordane	BRL	0.010									
beta-BHC	BRL	0.010									
delta-BHC	BRL	0.010									
Dieldrin	BRL	0.020									
gamma-BHC	BRL	0.010									
gamma-Chlordane	BRL	0.010									
Heptachlor	BRL	0.010									
Methoxychlor	BRL	0.10									
Toxaphene	BRL	1.0									
Surr: Decachlorobiphenyl	0.08388	0	0.1000		83.9	14.5	127				
Surr: Tetrachloro-m-xylene	0.06787	0	0.1000		67.9	20.9	122				

Sample ID: **LCS-216110** Client ID: Units: **ug/L** Prep Date: **11/19/2015** Run No: **304901**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **216110** Analysis Date: **11/20/2015** Seq No: **6530277**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.8503	0.10	1.000		85.0	56.2	135				
Dieldrin	0.7906	0.10	1.000		79.1	62.3	129				
gamma-BHC	0.7306	0.050	1.000		73.1	58.5	127				
Heptachlor	0.6945	0.050	1.000		69.5	50.7	132				
Surr: Decachlorobiphenyl	0.3957	0	0.5000		79.1	14.5	127				
Surr: Tetrachloro-m-xylene	0.2992	0	0.5000		59.8	20.9	122				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511F17

ANALYTICAL QC SUMMARY REPORT

BatchID: 216110

Sample ID: **1511G15-005BMS**	Client ID:		Units: **ug/L**	Prep Date: **11/19/2015**	Run No: **304916**
SampleType: **MS**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**		BatchID: **216110**	Analysis Date: **11/21/2015**	Seq No: **6530911**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.7970	0.50	1.000		79.7	37.9	153				
Dieldrin	0.7735	0.50	1.000		77.4	48.7	139				
gamma-BHC	0.9827	0.25	1.000	0.1752	80.8	52	139				
Heptachlor	1.493	0.25	1.000		149	36.3	145				S
Surr: Decachlorobiphenyl	0.4842	0	0.5000		96.8	14.5	127				
Surr: Tetrachloro-m-xylene	0.4730	0	0.5000		94.6	20.9	122				

Sample ID: **1511G15-005BMSD**	Client ID:		Units: **ug/L**	Prep Date: **11/19/2015**	Run No: **304916**
SampleType: **MSD**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**		BatchID: **216110**	Analysis Date: **11/21/2015**	Seq No: **6530912**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.8740	0.50	1.000		87.4	37.9	153	0.7970	9.22	33.7	
Dieldrin	0.8466	0.50	1.000		84.7	48.7	139	0.7735	9.02	27.1	
gamma-BHC	1.052	0.25	1.000	0.1752	87.6	52	139	0.9827	6.78	29.8	
Heptachlor	1.490	0.25	1.000		149	36.3	145	1.493	0.208	33.3	S
Surr: Decachlorobiphenyl	0.4822	0	0.5000		96.4	14.5	127	0.4842	0	0	
Surr: Tetrachloro-m-xylene	0.4864	0	0.5000		97.3	20.9	122	0.4730	0	0	

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511F17

ANALYTICAL QC SUMMARY REPORT

BatchID: 216197

Sample ID: **MB-216197** Client ID: Units: **ug/L** Prep Date: **11/19/2015** Run No: **304724**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **216197** Analysis Date: **11/19/2015** Seq No: **6528420**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,1-Dichloropropene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,4-Dioxane	BRL	150									
2-Butanone	BRL	50									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
Cyclohexane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Isobutyl Alcohol	BRL	200									
Isopropylbenzene	BRL	5.0									
Methylene chloride	BRL	5.0									
Naphthalene	BRL	5.0									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511F17

ANALYTICAL QC SUMMARY REPORT

BatchID: 216197

Sample ID: **MB-216197** Client ID: Units: **ug/L** Prep Date: **11/19/2015** Run No: **304724**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **216197** Analysis Date: **11/19/2015** Seq No: **6528420**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Tetrahydrofuran	BRL	10									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	54.81	0	50.00		110	70.7	125				
Surr: Dibromofluoromethane	51.87	0	50.00		104	82.2	120				
Surr: Toluene-d8	41.51	0	50.00		83.0	81.8	120				

Sample ID: **MB-216197** Client ID: Units: **ug/L** Prep Date: **11/19/2015** Run No: **304884**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **216197** Analysis Date: **11/20/2015** Seq No: **6530041**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	47.81	0	50.00		95.6	70.7	125				
Surr: Dibromofluoromethane	48.94	0	50.00		97.9	82.2	120				
Surr: Toluene-d8	48.41	0	50.00		96.8	81.8	120				

Sample ID: **LCS-216197** Client ID: Units: **ug/L** Prep Date: **11/19/2015** Run No: **304724**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **216197** Analysis Date: **11/19/2015** Seq No: **6528421**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	56.76	5.0	50.00		114	64.2	137				
Benzene	51.83	5.0	50.00		104	72.8	128				
Chlorobenzene	55.53	5.0	50.00		111	72.3	126				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511F17

ANALYTICAL QC SUMMARY REPORT

BatchID: 216197

Sample ID: **LCS-216197**	Client ID:		Units: **ug/L**	Prep Date: **11/19/2015**	Run No: **304724**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **216197**	Analysis Date: **11/19/2015**	Seq No: **6528421**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Toluene	52.98	5.0	50.00		106	74.9	127				
Trichloroethene	56.68	5.0	50.00		113	70.5	134				
Surr: 4-Bromofluorobenzene	45.36	0	50.00		90.7	70.7	125				
Surr: Dibromofluoromethane	50.33	0	50.00		101	82.2	120				
Surr: Toluene-d8	43.27	0	50.00		86.5	81.8	120				

Sample ID: **1511F17-004AMS**	Client ID: **MW-109**		Units: **ug/L**	Prep Date: **11/19/2015**	Run No: **304724**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **216197**	Analysis Date: **11/19/2015**	Seq No: **6528435**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	1160	100	1000		116	60.5	156				
Benzene	1058	100	1000		106	70	135				
Chlorobenzene	1131	100	1000		113	70.5	132				
Toluene	1183	100	1000		118	70.5	137				
Trichloroethene	1186	100	1000		119	71.8	139				
Surr: 4-Bromofluorobenzene	755.6	0	1000		75.6	70.7	125				
Surr: Dibromofluoromethane	996.0	0	1000		99.6	82.2	120				
Surr: Toluene-d8	943.0	0	1000		94.3	81.8	120				

Sample ID: **1511F17-004AMSD**	Client ID: **MW-109**		Units: **ug/L**	Prep Date: **11/19/2015**	Run No: **304724**
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **216197**	Analysis Date: **11/19/2015**	Seq No: **6528436**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	1169	100	1000		117	60.5	156	1160	0.773	20	
Benzene	1075	100	1000		108	70	135	1058	1.63	20	
Chlorobenzene	1137	100	1000		114	70.5	132	1131	0.582	20	
Toluene	1180	100	1000		118	70.5	137	1183	0.288	20	
Trichloroethene	1185	100	1000		118	71.8	139	1186	0.101	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511F17

ANALYTICAL QC SUMMARY REPORT

BatchID: 216197

Sample ID: **1511F17-004AMSD** Client ID: **MW-109** Units: **ug/L** Prep Date: **11/19/2015** Run No: **304724**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **216197** Analysis Date: **11/19/2015** Seq No: **6528436**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	961.4	0	1000		96.1	70.7	125	755.6	0	0	
Surr: Dibromofluoromethane	1028	0	1000		103	82.2	120	996.0	0	0	
Surr: Toluene-d8	959.2	0	1000		95.9	81.8	120	943.0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511F17

ANALYTICAL QC SUMMARY REPORT

BatchID: R304847

Sample ID: **MB-R304847**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **304847**
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**			BatchID: **R304847**	Analysis Date: **11/17/2015**		Seq No: **6529183**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R304847**	Client ID:			Units: **mg/L**	Prep Date:		Run No: **304847**
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**			BatchID: **R304847**	Analysis Date: **11/17/2015**		Seq No: **6529182**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.318	0.25	5.000		106	90	110				
Sulfate	25.80	1.0	25.00		103	90	110				

Sample ID: **1511F17-010EMS**	Client ID: **MW-113**			Units: **mg/L**	Prep Date:		Run No: **304847**
SampleType: **MS**	TestCode: **ION SCAN SW9056A**			BatchID: **R304847**	Analysis Date: **11/17/2015**		Seq No: **6529206**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	495.3	25	500.0		99.1	90	110				
Sulfate	3932	100	2500	1379	102	90	110				

Sample ID: **1511F17-010EMSD**	Client ID: **MW-113**			Units: **mg/L**	Prep Date:		Run No: **304847**
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**			BatchID: **R304847**	Analysis Date: **11/17/2015**		Seq No: **6529207**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	515.8	25	500.0		103	90	110	495.3	4.07	20	
Sulfate	4105	100	2500	1379	109	90	110	3932	4.33	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.

November 24, 2015

Rhonda Quinn
AMEC E&I, Inc. -Kennesaw
1075 Big Shanty Rd NW
Kennesaw GA 30144

TEL: (770) 421-3400
FAX: (770) 421-3486

RE: BFEL-Atlanta

Dear Rhonda Quinn: Order No: 1511G15

Analytical Environmental Services, Inc. received 6 samples on 11/17/2015 4:30:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' 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 09/01/17.

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.

Ioana Pacurar

Ioana Pacurar
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: 1511615

Date: 11/17/15 Page 1 of 1

COMPANY: Amec Foster Wheeler

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

PHONE: 770-421-3400

FAX: 770-421-3486

SAMPLED BY: D Howard, M Andrews, M Bowen, E Guillen

SIGNATURE: Daniel Howard

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	* ANALYSIS REQUESTED: VOCs List + 8260	Pest 8081A	Tot Metals 6020	Diss Metals 6020	NO3, SO4/9056	PRESERVATION (See codes)	REMARKS	No # of Containers
1	TB-06	11/17/15	0945	X		W	2					H+I		2
2	TW-9		1128	X		GW	2	2	1	1	1	I N I I		7
3	TW-10		1105	X		GW	2	2	1	1	1			7
4	TW-7		1345	X		GW	2	2	1	1	1			7
5	MW-120		1445	X		GW	2	2	1	1	1			7
6	MW-119	↓	1440	X		GW	2	2	1	1	1			7
7	Temp Blank													
8														
9														
10														
11														
12														
13														
14														

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

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Daniel Howard	11/17/15/1601	1: R Kuhie	11.17.15/16:00
2: R Kuhie	11-17-15/ 4:30	2:	11/17/15 16:30
3:		3:	

PROJECT INFORMATION

PROJECT NAME: BFEL Atlanta

PROJECT #: 612208015 4.18

SITE ADDRESS: 1525 Pine St Atlanta, GA

SEND REPORT TO: ~~612208015 4.18~~ DM Rhonda Quinn

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers

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): GA

E-mail? Y / N; Fax? Y / N

DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:
* Dissolved metals will be Filtered by Lab
Metals: As, Cu, Pb, Zn

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

Client: AMEC E&I, Inc. -Kennesaw
Project: BFEL-Atlanta
Lab ID: 1511G15

Case Narrative

IC Analysis by Method 9056A:

Due to sample matrix, sample(s) 1511G15-003E, -005E, and -006E required a dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc **Date:** 24-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-06
Project Name:	BFEL-Atlanta	**Collection Date:**	11/17/2015
Lab ID:	1511G15-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
1,1-Dichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
1,1-Dichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
1,1-Dichloropropene	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
1,2-Dichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
1,2-Dichloropropane	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
1,4-Dioxane	BRL	150		ug/L	216197	1	11/20/2015 00:45	NP
2-Butanone	BRL	50		ug/L	216197	1	11/20/2015 00:45	NP
4-Methyl-2-pentanone	BRL	10		ug/L	216197	1	11/20/2015 00:45	NP
Acetone	BRL	50		ug/L	216197	1	11/20/2015 00:45	NP
Benzene	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
Carbon disulfide	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
Carbon tetrachloride	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
Chlorobenzene	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
Chloroethane	BRL	10		ug/L	216197	1	11/20/2015 00:45	NP
Chloroform	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
Chloromethane	BRL	10		ug/L	216197	1	11/20/2015 00:45	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
Cyclohexane	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
Ethylbenzene	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
Isobutyl Alcohol	BRL	200		ug/L	216197	1	11/20/2015 00:45	NP
Isopropylbenzene	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
Methylene chloride	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
Naphthalene	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
Styrene	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
Tetrachloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
Tetrahydrofuran	BRL	10		ug/L	216197	1	11/20/2015 00:45	NP
Toluene	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
Trichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
Trichlorofluoromethane	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
Vinyl chloride	BRL	2.0		ug/L	216197	1	11/20/2015 00:45	NP
Xylenes, Total	BRL	5.0		ug/L	216197	1	11/20/2015 00:45	NP
Surr: 4-Bromofluorobenzene	91.6	70.7-125		%REC	216197	1	11/20/2015 00:45	NP
Surr: Dibromofluoromethane	109	82.2-120		%REC	216197	1	11/20/2015 00:45	NP
Surr: Toluene-d8	87.4	81.8-120		%REC	216197	1	11/20/2015 00:45	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-9
Project Name:	BFEL-Atlanta	**Collection Date:**	11/17/2015 9:45:00 AM
Lab ID:	1511G15-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
1,1-Dichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
1,1-Dichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
1,1-Dichloropropene	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
1,2-Dichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
1,2-Dichloropropane	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
1,4-Dioxane	BRL	150		ug/L	216197	1	11/20/2015 01:09	NP
2-Butanone	BRL	50		ug/L	216197	1	11/20/2015 01:09	NP
4-Methyl-2-pentanone	BRL	10		ug/L	216197	1	11/20/2015 01:09	NP
Acetone	BRL	50		ug/L	216197	1	11/20/2015 01:09	NP
Benzene	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
Carbon disulfide	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
Carbon tetrachloride	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
Chlorobenzene	10	5.0		ug/L	216197	1	11/20/2015 01:09	NP
Chloroethane	BRL	10		ug/L	216197	1	11/20/2015 01:09	NP
Chloroform	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
Chloromethane	BRL	10		ug/L	216197	1	11/20/2015 01:09	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
Cyclohexane	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
Ethylbenzene	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
Isobutyl Alcohol	BRL	200		ug/L	216197	1	11/20/2015 01:09	NP
Isopropylbenzene	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
Methylene chloride	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
Naphthalene	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
Styrene	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
Tetrachloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
Tetrahydrofuran	BRL	10		ug/L	216197	1	11/20/2015 01:09	NP
Toluene	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
Trichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
Trichlorofluoromethane	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
Vinyl chloride	BRL	2.0		ug/L	216197	1	11/20/2015 01:09	NP
Xylenes, Total	BRL	5.0		ug/L	216197	1	11/20/2015 01:09	NP
Surr: 4-Bromofluorobenzene	95.6	70.7-125		%REC	216197	1	11/20/2015 01:09	NP
Surr: Dibromofluoromethane	105	82.2-120		%REC	216197	1	11/20/2015 01:09	NP
Surr: Toluene-d8	87.8	81.8-120		%REC	216197	1	11/20/2015 01:09	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-9
Project Name:	BFEL-Atlanta	**Collection Date:**	11/17/2015 9:45:00 AM
Lab ID:	1511G15-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	216096	1	11/19/2015 15:04	JS
Copper	99.8	2.00		ug/L	216096	1	11/19/2015 15:04	JS
Lead	BRL	1.00		ug/L	216096	1	11/19/2015 15:04	JS
Zinc	3600	10.0		ug/L	216096	1	11/19/2015 15:04	JS
ION SCAN SW9056A								
Nitrate	3.1	2.5		mg/L	R304946	10	11/18/2015 12:53	JW
Sulfate	450	10		mg/L	R304946	10	11/18/2015 12:53	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	216102	1	11/20/2015 01:29	JS
Copper	84.1	2.00		ug/L	216102	1	11/20/2015 01:29	JS
Lead	BRL	1.00		ug/L	216102	1	11/20/2015 01:29	JS
Zinc	3790	10.0		ug/L	216102	1	11/20/2015 01:29	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	216110	1	11/21/2015 12:29	SH
4,4´-DDE	BRL	0.10		ug/L	216110	1	11/21/2015 12:29	SH
4,4´-DDT	BRL	0.10		ug/L	216110	1	11/21/2015 12:29	SH
alpha-BHC	17	1.0		ug/L	216110	20	11/21/2015 13:54	SH
alpha-Chlordane	BRL	0.050		ug/L	216110	1	11/21/2015 12:29	SH
beta-BHC	12	1.0		ug/L	216110	20	11/21/2015 13:54	SH
delta-BHC	8.8	1.0		ug/L	216110	20	11/21/2015 13:54	SH
Dieldrin	0.16	0.10		ug/L	216110	1	11/21/2015 12:29	SH
gamma-BHC	1.5	0.050		ug/L	216110	1	11/21/2015 12:29	SH
gamma-Chlordane	BRL	0.050		ug/L	216110	1	11/21/2015 12:29	SH
Heptachlor	BRL	0.050		ug/L	216110	1	11/21/2015 12:29	SH
Methoxychlor	BRL	0.50		ug/L	216110	1	11/21/2015 12:29	SH
Toxaphene	BRL	5.0		ug/L	216110	1	11/21/2015 12:29	SH
Surr: Decachlorobiphenyl	70.4	14.5-127		%REC	216110	1	11/21/2015 12:29	SH
Surr: Tetrachloro-m-xylene	53.3	20.9-122		%REC	216110	1	11/21/2015 12:29	SH

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:** 24-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-10
Project Name:	BFEL-Atlanta	**Collection Date:**	11/17/2015 11:28:00 AM
Lab ID:	1511G15-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
1,1-Dichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
1,1-Dichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
1,1-Dichloropropene	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
1,2-Dichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
1,2-Dichloropropane	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
1,4-Dioxane	BRL	150		ug/L	216197	1	11/20/2015 01:33	NP
2-Butanone	BRL	50		ug/L	216197	1	11/20/2015 01:33	NP
4-Methyl-2-pentanone	BRL	10		ug/L	216197	1	11/20/2015 01:33	NP
Acetone	BRL	50		ug/L	216197	1	11/20/2015 01:33	NP
Benzene	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
Carbon disulfide	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
Carbon tetrachloride	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
Chlorobenzene	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
Chloroethane	BRL	10		ug/L	216197	1	11/20/2015 01:33	NP
Chloroform	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
Chloromethane	BRL	10		ug/L	216197	1	11/20/2015 01:33	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
Cyclohexane	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
Ethylbenzene	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
Isobutyl Alcohol	BRL	200		ug/L	216197	1	11/20/2015 01:33	NP
Isopropylbenzene	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
Methylene chloride	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
Naphthalene	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
Styrene	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
Tetrachloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
Tetrahydrofuran	BRL	10		ug/L	216197	1	11/20/2015 01:33	NP
Toluene	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
Trichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
Trichlorofluoromethane	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
Vinyl chloride	BRL	2.0		ug/L	216197	1	11/20/2015 01:33	NP
Xylenes, Total	BRL	5.0		ug/L	216197	1	11/20/2015 01:33	NP
Surr: 4-Bromofluorobenzene	92.3	70.7-125		%REC	216197	1	11/20/2015 01:33	NP
Surr: Dibromofluoromethane	110	82.2-120		%REC	216197	1	11/20/2015 01:33	NP
Surr: Toluene-d8	90.4	81.8-120		%REC	216197	1	11/20/2015 01:33	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-10
Project Name:	BFEL-Atlanta	**Collection Date:**	11/17/2015 11:28:00 AM
Lab ID:	1511G15-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	5.21	5.00		ug/L	216096	1	11/19/2015 15:09	JS
Copper	12600	4.00		ug/L	216096	2	11/19/2015 17:05	JS
Lead	BRL	1.00		ug/L	216096	1	11/19/2015 15:09	JS
Zinc	11200	20.0		ug/L	216096	2	11/19/2015 17:05	JS
ION SCAN SW9056A								
Nitrate	BRL	5.0		mg/L	R304946	20	11/18/2015 13:53	JW
Sulfate	770	20		mg/L	R304946	20	11/18/2015 13:53	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	6.04	5.00		ug/L	216102	1	11/20/2015 01:34	JS
Copper	14500	4.00		ug/L	216102	2	11/20/2015 16:41	JS
Lead	BRL	1.00		ug/L	216102	1	11/20/2015 01:34	JS
Zinc	12900	20.0		ug/L	216102	2	11/20/2015 16:41	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	216110	1	11/21/2015 12:41	SH
4,4´-DDE	BRL	0.10		ug/L	216110	1	11/21/2015 12:41	SH
4,4´-DDT	BRL	0.10		ug/L	216110	1	11/21/2015 12:41	SH
alpha-BHC	0.56	0.050		ug/L	216110	1	11/21/2015 12:41	SH
alpha-Chlordane	BRL	0.050		ug/L	216110	1	11/21/2015 12:41	SH
beta-BHC	0.42	0.050		ug/L	216110	1	11/21/2015 12:41	SH
delta-BHC	0.29	0.050		ug/L	216110	1	11/21/2015 12:41	SH
Dieldrin	BRL	0.10		ug/L	216110	1	11/21/2015 12:41	SH
gamma-BHC	0.058	0.050		ug/L	216110	1	11/21/2015 12:41	SH
gamma-Chlordane	BRL	0.050		ug/L	216110	1	11/21/2015 12:41	SH
Heptachlor	BRL	0.050		ug/L	216110	1	11/21/2015 12:41	SH
Methoxychlor	BRL	0.50		ug/L	216110	1	11/21/2015 12:41	SH
Toxaphene	BRL	5.0		ug/L	216110	1	11/21/2015 12:41	SH
Surr: Decachlorobiphenyl	82.1	14.5-127		%REC	216110	1	11/21/2015 12:41	SH
Surr: Tetrachloro-m-xylene	81.1	20.9-122		%REC	216110	1	11/21/2015 12:41	SH

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:** 24-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-7
Project Name:	BFEL-Atlanta	**Collection Date:**	11/17/2015 1:45:00 PM
Lab ID:	1511G15-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
1,1-Dichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
1,1-Dichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
1,1-Dichloropropene	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
1,2-Dichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
1,2-Dichloropropane	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
1,4-Dioxane	BRL	150		ug/L	216197	1	11/20/2015 01:56	NP
2-Butanone	BRL	50		ug/L	216197	1	11/20/2015 01:56	NP
4-Methyl-2-pentanone	BRL	10		ug/L	216197	1	11/20/2015 01:56	NP
Acetone	BRL	50		ug/L	216197	1	11/20/2015 01:56	NP
Benzene	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
Carbon disulfide	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
Carbon tetrachloride	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
Chlorobenzene	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
Chloroethane	BRL	10		ug/L	216197	1	11/20/2015 01:56	NP
Chloroform	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
Chloromethane	BRL	10		ug/L	216197	1	11/20/2015 01:56	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
Cyclohexane	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
Ethylbenzene	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
Isobutyl Alcohol	BRL	200		ug/L	216197	1	11/20/2015 01:56	NP
Isopropylbenzene	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
Methylene chloride	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
Naphthalene	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
Styrene	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
Tetrachloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
Tetrahydrofuran	BRL	10		ug/L	216197	1	11/20/2015 01:56	NP
Toluene	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
Trichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
Trichlorofluoromethane	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
Vinyl chloride	BRL	2.0		ug/L	216197	1	11/20/2015 01:56	NP
Xylenes, Total	BRL	5.0		ug/L	216197	1	11/20/2015 01:56	NP
Surr: 4-Bromofluorobenzene	84	70.7-125		%REC	216197	1	11/20/2015 01:56	NP
Surr: Dibromofluoromethane	109	82.2-120		%REC	216197	1	11/20/2015 01:56	NP
Surr: Toluene-d8	96	81.8-120		%REC	216197	1	11/20/2015 01:56	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

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:** 24-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-7
Project Name:	BFEL-Atlanta	**Collection Date:**	11/17/2015 1:45:00 PM
Lab ID:	1511G15-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	31.7	5.00		ug/L	216096	10	11/19/2015 17:00	JS
Copper	131000	80.0		ug/L	216096	40	11/23/2015 16:47	JS
Lead	21.2	10.0		ug/L	216096	10	11/19/2015 17:00	JS
Zinc	260000	400		ug/L	216096	40	11/23/2015 16:47	JS
ION SCAN SW9056A								
Nitrate	110	5.0		mg/L	R304946	20	11/18/2015 14:08	JW
Sulfate	3600	500		mg/L	R304946	500	11/18/2015 16:12	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	39.9	5.00		ug/L	216102	10	11/20/2015 16:51	JS
Copper	122000	80.0		ug/L	216102	40	11/23/2015 17:13	JS
Lead	23.1	10.0		ug/L	216102	10	11/20/2015 16:51	JS
Zinc	254000	400		ug/L	216102	40	11/23/2015 17:13	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**			
4,4´-DDD	BRL	0.10		ug/L	216110	1	11/21/2015 12:52	SH
4,4´-DDE	BRL	0.10		ug/L	216110	1	11/21/2015 12:52	SH
4,4´-DDT	BRL	0.10		ug/L	216110	1	11/21/2015 12:52	SH
alpha-BHC	0.54	0.050		ug/L	216110	1	11/21/2015 12:52	SH
alpha-Chlordane	BRL	0.050		ug/L	216110	1	11/21/2015 12:52	SH
beta-BHC	1.8	0.10		ug/L	216110	2	11/21/2015 14:05	SH
delta-BHC	0.14	0.050		ug/L	216110	1	11/21/2015 12:52	SH
Dieldrin	BRL	0.10		ug/L	216110	1	11/21/2015 12:52	SH
gamma-BHC	0.35	0.050		ug/L	216110	1	11/21/2015 12:52	SH
gamma-Chlordane	BRL	0.050		ug/L	216110	1	11/21/2015 12:52	SH
Heptachlor	BRL	0.050		ug/L	216110	1	11/21/2015 12:52	SH
Methoxychlor	BRL	0.50		ug/L	216110	1	11/21/2015 12:52	SH
Toxaphene	BRL	5.0		ug/L	216110	1	11/21/2015 12:52	SH
Surr: Decachlorobiphenyl	63.7	14.5-127		%REC	216110	1	11/21/2015 12:52	SH
Surr: Tetrachloro-m-xylene	76.3	20.9-122		%REC	216110	1	11/21/2015 12:52	SH

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:** 24-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-120
Project Name:	BFEL-Atlanta	**Collection Date:**	11/17/2015 2:45:00 PM
Lab ID:	1511G15-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
1,1-Dichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
1,1-Dichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
1,1-Dichloropropene	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
1,2-Dichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
1,2-Dichloropropane	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
1,4-Dioxane	BRL	150		ug/L	216197	1	11/20/2015 02:20	NP
2-Butanone	BRL	50		ug/L	216197	1	11/20/2015 02:20	NP
4-Methyl-2-pentanone	BRL	10		ug/L	216197	1	11/20/2015 02:20	NP
Acetone	BRL	50		ug/L	216197	1	11/20/2015 02:20	NP
Benzene	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
Carbon disulfide	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
Carbon tetrachloride	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
Chlorobenzene	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
Chloroethane	BRL	10		ug/L	216197	1	11/20/2015 02:20	NP
Chloroform	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
Chloromethane	BRL	10		ug/L	216197	1	11/20/2015 02:20	NP
cis-1,2-Dichloroethene	8.6	5.0		ug/L	216197	1	11/20/2015 02:20	NP
Cyclohexane	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
Ethylbenzene	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
Isobutyl Alcohol	BRL	200		ug/L	216197	1	11/20/2015 02:20	NP
Isopropylbenzene	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
Methylene chloride	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
Naphthalene	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
Styrene	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
Tetrachloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
Tetrahydrofuran	BRL	10		ug/L	216197	1	11/20/2015 02:20	NP
Toluene	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
Trichloroethene	8.5	5.0		ug/L	216197	1	11/20/2015 02:20	NP
Trichlorofluoromethane	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
Vinyl chloride	BRL	2.0		ug/L	216197	1	11/20/2015 02:20	NP
Xylenes, Total	BRL	5.0		ug/L	216197	1	11/20/2015 02:20	NP
Surr: 4-Bromofluorobenzene	94.4	70.7-125		%REC	216197	1	11/20/2015 02:20	NP
Surr: Dibromofluoromethane	91.7	82.2-120		%REC	216197	1	11/20/2015 02:20	NP
Surr: Toluene-d8	96.7	81.8-120		%REC	216197	1	11/20/2015 02:20	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 24-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-120
Project Name:	BFEL-Atlanta	**Collection Date:**	11/17/2015 2:45:00 PM
Lab ID:	1511G15-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	216096	1	11/19/2015 15:36	JS
Copper	42.2	2.00		ug/L	216096	1	11/19/2015 15:36	JS
Lead	5.41	1.00		ug/L	216096	1	11/19/2015 15:36	JS
Zinc	1330	10.0		ug/L	216096	1	11/19/2015 15:36	JS
ION SCAN SW9056A								
Nitrate	BRL	2.5		mg/L	R304946	10	11/18/2015 14:23	JW
Sulfate	330	10		mg/L	R304946	10	11/18/2015 14:23	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	216102	1	11/20/2015 01:45	JS
Copper	101	2.00		ug/L	216102	1	11/20/2015 01:45	JS
Lead	BRL	1.00		ug/L	216102	1	11/20/2015 01:45	JS
Zinc	1310	10.0		ug/L	216102	1	11/20/2015 01:45	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	216110	1	11/21/2015 13:03	SH
4,4´-DDE	BRL	0.10		ug/L	216110	1	11/21/2015 13:03	SH
4,4´-DDT	BRL	0.10		ug/L	216110	1	11/21/2015 13:03	SH
alpha-BHC	1.7	0.10		ug/L	216110	2	11/21/2015 14:16	SH
alpha-Chlordane	BRL	0.050		ug/L	216110	1	11/21/2015 13:03	SH
beta-BHC	1.9	0.10		ug/L	216110	2	11/21/2015 14:16	SH
delta-BHC	1.5	0.050		ug/L	216110	1	11/21/2015 13:03	SH
Dieldrin	BRL	0.10		ug/L	216110	1	11/21/2015 13:03	SH
gamma-BHC	0.17	0.050		ug/L	216110	1	11/21/2015 13:03	SH
gamma-Chlordane	BRL	0.050		ug/L	216110	1	11/21/2015 13:03	SH
Heptachlor	BRL	0.050		ug/L	216110	1	11/21/2015 13:03	SH
Methoxychlor	BRL	0.50		ug/L	216110	1	11/21/2015 13:03	SH
Toxaphene	BRL	5.0		ug/L	216110	1	11/21/2015 13:03	SH
Surr: Decachlorobiphenyl	83.3	14.5-127		%REC	216110	1	11/21/2015 13:03	SH
Surr: Tetrachloro-m-xylene	80.3	20.9-122		%REC	216110	1	11/21/2015 13:03	SH

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:** 24-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-119
Project Name:	BFEL-Atlanta	**Collection Date:**	11/17/2015 2:40:00 PM
Lab ID:	1511G15-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
1,1-Dichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
1,1-Dichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
1,1-Dichloropropene	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
1,2-Dichloroethane	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
1,2-Dichloropropane	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
1,4-Dioxane	BRL	150		ug/L	216197	1	11/20/2015 02:44	NP
2-Butanone	BRL	50		ug/L	216197	1	11/20/2015 02:44	NP
4-Methyl-2-pentanone	BRL	10		ug/L	216197	1	11/20/2015 02:44	NP
Acetone	BRL	50		ug/L	216197	1	11/20/2015 02:44	NP
Benzene	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
Carbon disulfide	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
Carbon tetrachloride	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
Chlorobenzene	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
Chloroethane	BRL	10		ug/L	216197	1	11/20/2015 02:44	NP
Chloroform	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
Chloromethane	BRL	10		ug/L	216197	1	11/20/2015 02:44	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
Cyclohexane	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
Ethylbenzene	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
Isobutyl Alcohol	BRL	200		ug/L	216197	1	11/20/2015 02:44	NP
Isopropylbenzene	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
Methylene chloride	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
Naphthalene	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
Styrene	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
Tetrachloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
Tetrahydrofuran	BRL	10		ug/L	216197	1	11/20/2015 02:44	NP
Toluene	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
Trichloroethene	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
Trichlorofluoromethane	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
Vinyl chloride	BRL	2.0		ug/L	216197	1	11/20/2015 02:44	NP
Xylenes, Total	BRL	5.0		ug/L	216197	1	11/20/2015 02:44	NP
Surr: 4-Bromofluorobenzene	96.8	70.7-125		%REC	216197	1	11/20/2015 02:44	NP
Surr: Dibromofluoromethane	102	82.2-120		%REC	216197	1	11/20/2015 02:44	NP
Surr: Toluene-d8	97.2	81.8-120		%REC	216197	1	11/20/2015 02:44	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				

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:** 24-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-119
Project Name:	BFEL-Atlanta	**Collection Date:**	11/17/2015 2:40:00 PM
Lab ID:	1511G15-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	216096	1	11/19/2015 15:41	JS
Copper	7.27	2.00		ug/L	216096	1	11/19/2015 15:41	JS
Lead	BRL	1.00		ug/L	216096	1	11/19/2015 15:41	JS
Zinc	1050	10.0		ug/L	216096	1	11/19/2015 15:41	JS
ION SCAN SW9056A								
Nitrate	BRL	2.5		mg/L	R304946	10	11/18/2015 14:39	JW
Sulfate	140	10		mg/L	R304946	10	11/18/2015 14:39	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	5.00		ug/L	216102	1	11/20/2015 01:50	JS
Copper	22.5	2.00		ug/L	216102	1	11/20/2015 01:50	JS
Lead	BRL	1.00		ug/L	216102	1	11/20/2015 01:50	JS
Zinc	1090	10.0		ug/L	216102	1	11/20/2015 01:50	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	216110	1	11/21/2015 13:42	SH
4,4´-DDE	BRL	0.10		ug/L	216110	1	11/21/2015 13:42	SH
4,4´-DDT	BRL	0.10		ug/L	216110	1	11/21/2015 13:42	SH
alpha-BHC	1.2	0.050		ug/L	216110	1	11/21/2015 13:42	SH
alpha-Chlordane	BRL	0.050		ug/L	216110	1	11/21/2015 13:42	SH
beta-BHC	1.1	0.050		ug/L	216110	1	11/21/2015 13:42	SH
delta-BHC	1.1	0.050		ug/L	216110	1	11/21/2015 13:42	SH
Dieldrin	BRL	0.10		ug/L	216110	1	11/21/2015 13:42	SH
gamma-BHC	0.23	0.050		ug/L	216110	1	11/21/2015 13:42	SH
gamma-Chlordane	BRL	0.050		ug/L	216110	1	11/21/2015 13:42	SH
Heptachlor	BRL	0.050		ug/L	216110	1	11/21/2015 13:42	SH
Methoxychlor	BRL	0.50		ug/L	216110	1	11/21/2015 13:42	SH
Toxaphene	BRL	5.0		ug/L	216110	1	11/21/2015 13:42	SH
Surr: Decachlorobiphenyl	73.3	14.5-127		%REC	216110	1	11/21/2015 13:42	SH
Surr: Tetrachloro-m-xylene	67.6	20.9-122		%REC	216110	1	11/21/2015 13:42	SH

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Amec Foster Wheeler Work Order Number 1511615

Checklist completed by [signature] 11-17-15
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 3.6°C 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 CT

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: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1511G15

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1511G15-001A	TB-06	11/17/2015 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/19/2015 9:07:00 AM	11/20/2015
1511G15-002A	TW-9	11/17/2015 9:45:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/19/2015 9:07:00 AM	11/20/2015
1511G15-002B	TW-9	11/17/2015 9:45:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		11/19/2015 11:00:00 AM	11/21/2015
1511G15-002C	TW-9	11/17/2015 9:45:00AM	Groundwater	Total Metals by ICP/MS		11/18/2015 2:20:00 PM	11/19/2015
1511G15-002D	TW-9	11/17/2015 9:45:00AM	Groundwater	Dissolved Metals by ICP/MS		11/18/2015 1:31:00 PM	11/20/2015
1511G15-002E	TW-9	11/17/2015 9:45:00AM	Groundwater	ION SCAN			11/18/2015
1511G15-003A	TW-10	11/17/2015 11:28:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/19/2015 9:07:00 AM	11/20/2015
1511G15-003B	TW-10	11/17/2015 11:28:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		11/19/2015 11:00:00 AM	11/21/2015
1511G15-003C	TW-10	11/17/2015 11:28:00AM	Groundwater	Total Metals by ICP/MS		11/18/2015 2:20:00 PM	11/19/2015
1511G15-003D	TW-10	11/17/2015 11:28:00AM	Groundwater	Dissolved Metals by ICP/MS		11/18/2015 1:31:00 PM	11/20/2015
1511G15-003E	TW-10	11/17/2015 11:28:00AM	Groundwater	ION SCAN			11/18/2015
1511G15-004A	TW-7	11/17/2015 1:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/19/2015 9:07:00 AM	11/20/2015
1511G15-004B	TW-7	11/17/2015 1:45:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/19/2015 11:00:00 AM	11/21/2015
1511G15-004C	TW-7	11/17/2015 1:45:00PM	Groundwater	Total Metals by ICP/MS		11/18/2015 2:20:00 PM	11/19/2015
1511G15-004C	TW-7	11/17/2015 1:45:00PM	Groundwater	Total Metals by ICP/MS		11/18/2015 2:20:00 PM	11/23/2015
1511G15-004D	TW-7	11/17/2015 1:45:00PM	Groundwater	Dissolved Metals by ICP/MS		11/18/2015 1:31:00 PM	11/20/2015
1511G15-004D	TW-7	11/17/2015 1:45:00PM	Groundwater	Dissolved Metals by ICP/MS		11/18/2015 1:31:00 PM	11/23/2015
1511G15-004E	TW-7	11/17/2015 1:45:00PM	Groundwater	ION SCAN			11/18/2015
1511G15-005A	MW-120	11/17/2015 2:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/19/2015 9:07:00 AM	11/20/2015
1511G15-005B	MW-120	11/17/2015 2:45:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/19/2015 11:00:00 AM	11/21/2015
1511G15-005C	MW-120	11/17/2015 2:45:00PM	Groundwater	Total Metals by ICP/MS		11/18/2015 2:20:00 PM	11/19/2015
1511G15-005D	MW-120	11/17/2015 2:45:00PM	Groundwater	Dissolved Metals by ICP/MS		11/18/2015 1:31:00 PM	11/20/2015
1511G15-005E	MW-120	11/17/2015 2:45:00PM	Groundwater	ION SCAN			11/18/2015
1511G15-006A	MW-119	11/17/2015 2:40:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/19/2015 9:07:00 AM	11/20/2015
1511G15-006B	MW-119	11/17/2015 2:40:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/19/2015 11:00:00 AM	11/21/2015
1511G15-006C	MW-119	11/17/2015 2:40:00PM	Groundwater	Total Metals by ICP/MS		11/18/2015 2:20:00 PM	11/19/2015
1511G15-006D	MW-119	11/17/2015 2:40:00PM	Groundwater	Dissolved Metals by ICP/MS		11/18/2015 1:31:00 PM	11/20/2015
1511G15-006E	MW-119	11/17/2015 2:40:00PM	Groundwater	ION SCAN			11/18/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511G15

ANALYTICAL QC SUMMARY REPORT

BatchID: 216096

Sample ID: **MB-216096** Client ID: Units: **ug/L** Prep Date: **11/18/2015** Run No: **304782**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **216096** Analysis Date: **11/19/2015** Seq No: **6527428**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00									
Copper	BRL	2.00									
Lead	BRL	1.00									
Zinc	BRL	10.0									

Sample ID: **LCS-216096** Client ID: Units: **ug/L** Prep Date: **11/18/2015** Run No: **304782**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **216096** Analysis Date: **11/19/2015** Seq No: **6527429**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	93.15	5.00	100.0		93.1	80	120				
Copper	98.44	2.00	100.0		98.4	80	120				
Lead	102.7	1.00	100.0		103	80	120				
Zinc	95.17	10.0	100.0		95.2	80	120				

Sample ID: **1511F26-001FMS** Client ID: Units: **ug/L** Prep Date: **11/18/2015** Run No: **304782**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **216096** Analysis Date: **11/19/2015** Seq No: **6527431**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	90.34	5.00	100.0	0.6660	89.7	75	125				
Copper	99.61	2.00	100.0	4.748	94.9	75	125				
Lead	99.46	1.00	100.0	2.035	97.4	75	125				
Zinc	504.7	10.0	100.0	403.6	101	75	125				

Sample ID: **1511F26-001FMSD** Client ID: Units: **ug/L** Prep Date: **11/18/2015** Run No: **304782**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **216096** Analysis Date: **11/19/2015** Seq No: **6527942**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	90.45	5.00	100.0	0.6660	89.8	75	125	90.34	0.122	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511G15

ANALYTICAL QC SUMMARY REPORT

BatchID: 216096

Sample ID: **1511F26-001FMSD** Client ID:
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A**
Units: **ug/L** Prep Date: **11/18/2015** Run No: **304782**
BatchID: **216096** Analysis Date: **11/19/2015** Seq No: **6527942**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	103.5	2.00	100.0	4.748	98.7	75	125	99.61	3.80	20	
Lead	101.4	1.00	100.0	2.035	99.3	75	125	99.46	1.89	20	
Zinc	497.6	10.0	100.0	403.6	94.1	75	125	504.7	1.40	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511G15

ANALYTICAL QC SUMMARY REPORT

BatchID: 216102

Sample ID: **MB-216102** Client ID: Units: **ug/L** Prep Date: **11/18/2015** Run No: **304826**
SampleType: **MBLK** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **216102** Analysis Date: **11/19/2015** Seq No: **6528645**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00									
Copper	BRL	2.00									
Lead	BRL	1.00									
Zinc	BRL	10.0									

Sample ID: **LCS-216102** Client ID: Units: **ug/L** Prep Date: **11/18/2015** Run No: **304826**
SampleType: **LCS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **216102** Analysis Date: **11/19/2015** Seq No: **6528646**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	104.2	5.00	100.0		104	80	120				
Copper	101.9	2.00	100.0	0.5196	101	80	120				
Lead	105.5	1.00	100.0		106	80	120				
Zinc	100.7	10.0	100.0	4.001	96.7	80	120				

Sample ID: **1511E97-001GMS** Client ID: Units: **ug/L** Prep Date: **11/18/2015** Run No: **304826**
SampleType: **MS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **216102** Analysis Date: **11/19/2015** Seq No: **6528649**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	93.53	5.00	100.0	0.5050	93.0	75	125				
Copper	115.1	2.00	100.0	1.372	114	75	125				
Lead	93.95	1.00	100.0	0.3248	93.6	75	125				
Zinc	96.15	10.0	100.0	12.42	83.7	75	125				

Sample ID: **1511E97-001GMSD** Client ID: Units: **ug/L** Prep Date: **11/18/2015** Run No: **304826**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **216102** Analysis Date: **11/19/2015** Seq No: **6528652**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	90.81	5.00	100.0	0.5050	90.3	75	125	93.53	2.95	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511G15

ANALYTICAL QC SUMMARY REPORT

BatchID: 216102

Sample ID: **1511E97-001GMSD** Client ID:
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A**
Units: **ug/L** Prep Date: **11/18/2015** Run No: **304826**
BatchID: **216102** Analysis Date: **11/19/2015** Seq No: **6528652**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	91.05	2.00	100.0	1.372	89.7	75	125	115.1	23.3	20	R
Lead	91.46	1.00	100.0	0.3248	91.1	75	125	93.95	2.68	20	
Zinc	91.57	10.0	100.0	12.42	79.1	75	125	96.15	4.89	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511G15

ANALYTICAL QC SUMMARY REPORT

BatchID: 216110

Sample ID: **MB-216110** Client ID: Units: **ug/L** Prep Date: **11/19/2015** Run No: **304916**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **216110** Analysis Date: **11/21/2015** Seq No: **6530904**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDD	BRL	0.020									
4,4´-DDE	BRL	0.020									
4,4´-DDT	BRL	0.020									
alpha-BHC	BRL	0.010									
alpha-Chlordane	BRL	0.010									
beta-BHC	BRL	0.010									
delta-BHC	BRL	0.010									
Dieldrin	BRL	0.020									
gamma-BHC	BRL	0.010									
gamma-Chlordane	BRL	0.010									
Heptachlor	BRL	0.010									
Methoxychlor	BRL	0.10									
Toxaphene	BRL	1.0									
Surr: Decachlorobiphenyl	0.08388	0	0.1000		83.9	14.5	127				
Surr: Tetrachloro-m-xylene	0.06787	0	0.1000		67.9	20.9	122				

Sample ID: **LCS-216110** Client ID: Units: **ug/L** Prep Date: **11/19/2015** Run No: **304901**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **216110** Analysis Date: **11/20/2015** Seq No: **6530277**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.8503	0.10	1.000		85.0	56.2	135				
Dieldrin	0.7906	0.10	1.000		79.1	62.3	129				
gamma-BHC	0.7306	0.050	1.000		73.1	58.5	127				
Heptachlor	0.6945	0.050	1.000		69.5	50.7	132				
Surr: Decachlorobiphenyl	0.3957	0	0.5000		79.1	14.5	127				
Surr: Tetrachloro-m-xylene	0.2992	0	0.5000		59.8	20.9	122				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511G15

ANALYTICAL QC SUMMARY REPORT

BatchID: 216110

Sample ID: **1511G15-005BMS**	Client ID: **MW-120**	Units: **ug/L**	Prep Date: **11/19/2015**	Run No: **304916**
SampleType: **MS**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**	BatchID: **216110**	Analysis Date: **11/21/2015**	Seq No: **6530911**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.7970	0.50	1.000		79.7	37.9	153				
Dieldrin	0.7735	0.50	1.000		77.4	48.7	139				
gamma-BHC	0.9827	0.25	1.000	0.1752	80.8	52	139				
Heptachlor	1.493	0.25	1.000		149	36.3	145				S
Surr: Decachlorobiphenyl	0.4842	0	0.5000		96.8	14.5	127				
Surr: Tetrachloro-m-xylene	0.4730	0	0.5000		94.6	20.9	122				

Sample ID: **1511G15-005BMSD**	Client ID: **MW-120**	Units: **ug/L**	Prep Date: **11/19/2015**	Run No: **304916**
SampleType: **MSD**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**	BatchID: **216110**	Analysis Date: **11/21/2015**	Seq No: **6530912**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.8740	0.50	1.000		87.4	37.9	153	0.7970	9.22	33.7	
Dieldrin	0.8466	0.50	1.000		84.7	48.7	139	0.7735	9.02	27.1	
gamma-BHC	1.052	0.25	1.000	0.1752	87.6	52	139	0.9827	6.78	29.8	
Heptachlor	1.490	0.25	1.000		149	36.3	145	1.493	0.208	33.3	S
Surr: Decachlorobiphenyl	0.4822	0	0.5000		96.4	14.5	127	0.4842	0	0	
Surr: Tetrachloro-m-xylene	0.4864	0	0.5000		97.3	20.9	122	0.4730	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511G15

ANALYTICAL QC SUMMARY REPORT

BatchID: 216197

Sample ID: **MB-216197** Client ID: Units: **ug/L** Prep Date: **11/19/2015** Run No: **304724**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **216197** Analysis Date: **11/19/2015** Seq No: **6528420**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,1-Dichloropropene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,4-Dioxane	BRL	150									
2-Butanone	BRL	50									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
Cyclohexane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Isobutyl Alcohol	BRL	200									
Isopropylbenzene	BRL	5.0									
Methylene chloride	BRL	5.0									
Naphthalene	BRL	5.0									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511G15

ANALYTICAL QC SUMMARY REPORT

BatchID: 216197

Sample ID: **MB-216197** Client ID: Units: **ug/L** Prep Date: **11/19/2015** Run No: **304724**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **216197** Analysis Date: **11/19/2015** Seq No: **6528420**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Tetrahydrofuran	BRL	10									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	54.81	0	50.00		110	70.7	125				
Surr: Dibromofluoromethane	51.87	0	50.00		104	82.2	120				
Surr: Toluene-d8	41.51	0	50.00		83.0	81.8	120				

Sample ID: **MB-216197** Client ID: Units: **ug/L** Prep Date: **11/19/2015** Run No: **304884**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **216197** Analysis Date: **11/20/2015** Seq No: **6530041**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	47.81	0	50.00		95.6	70.7	125				
Surr: Dibromofluoromethane	48.94	0	50.00		97.9	82.2	120				
Surr: Toluene-d8	48.41	0	50.00		96.8	81.8	120				

Sample ID: **LCS-216197** Client ID: Units: **ug/L** Prep Date: **11/19/2015** Run No: **304724**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **216197** Analysis Date: **11/19/2015** Seq No: **6528421**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	56.76	5.0	50.00		114	64.2	137				
Benzene	51.83	5.0	50.00		104	72.8	128				
Chlorobenzene	55.53	5.0	50.00		111	72.3	126				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511G15

ANALYTICAL QC SUMMARY REPORT

BatchID: 216197

Sample ID: **LCS-216197** Client ID: Units: **ug/L** Prep Date: **11/19/2015** Run No: **304724**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **216197** Analysis Date: **11/19/2015** Seq No: **6528421**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Toluene	52.98	5.0	50.00		106	74.9	127				
Trichloroethene	56.68	5.0	50.00		113	70.5	134				
Surr: 4-Bromofluorobenzene	45.36	0	50.00		90.7	70.7	125				
Surr: Dibromofluoromethane	50.33	0	50.00		101	82.2	120				
Surr: Toluene-d8	43.27	0	50.00		86.5	81.8	120				

Sample ID: **1511F17-004AMS** Client ID: Units: **ug/L** Prep Date: **11/19/2015** Run No: **304724**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **216197** Analysis Date: **11/19/2015** Seq No: **6528435**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	1160	100	1000		116	60.5	156				
Benzene	1058	100	1000		106	70	135				
Chlorobenzene	1131	100	1000		113	70.5	132				
Toluene	1183	100	1000		118	70.5	137				
Trichloroethene	1186	100	1000		119	71.8	139				
Surr: 4-Bromofluorobenzene	755.6	0	1000		75.6	70.7	125				
Surr: Dibromofluoromethane	996.0	0	1000		99.6	82.2	120				
Surr: Toluene-d8	943.0	0	1000		94.3	81.8	120				

Sample ID: **1511F17-004AMSD** Client ID: Units: **ug/L** Prep Date: **11/19/2015** Run No: **304724**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **216197** Analysis Date: **11/19/2015** Seq No: **6528436**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	1169	100	1000		117	60.5	156	1160	0.773	20	
Benzene	1075	100	1000		108	70	135	1058	1.63	20	
Chlorobenzene	1137	100	1000		114	70.5	132	1131	0.582	20	
Toluene	1180	100	1000		118	70.5	137	1183	0.288	20	
Trichloroethene	1185	100	1000		118	71.8	139	1186	0.101	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511G15

ANALYTICAL QC SUMMARY REPORT

BatchID: 216197

Sample ID: **1511F17-004AMSD** Client ID:
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **11/19/2015** Run No: **304724**
BatchID: **216197** Analysis Date: **11/19/2015** Seq No: **6528436**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	961.4	0	1000		96.1	70.7	125	755.6	0	0	
Surr: Dibromofluoromethane	1028	0	1000		103	82.2	120	996.0	0	0	
Surr: Toluene-d8	959.2	0	1000		95.9	81.8	120	943.0	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511G15

ANALYTICAL QC SUMMARY REPORT

BatchID: R304946

Sample ID: **MB-R304946** Client ID: Units: **mg/L** Prep Date: Run No: **304946**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R304946** Analysis Date: **11/18/2015** Seq No: **6531840**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: **LCS-R304946** Client ID: Units: **mg/L** Prep Date: Run No: **304946**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R304946** Analysis Date: **11/18/2015** Seq No: **6531839**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.125	0.25	5.000		103	90	110				
Sulfate	25.27	1.0	25.00		101	90	110				

Sample ID: **1511F97-002BMS** Client ID: Units: **mg/L** Prep Date: Run No: **304946**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R304946** Analysis Date: **11/18/2015** Seq No: **6531843**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	54.27	2.5	50.00	4.121	100	90	110				
Sulfate	274.9	10	250.0	29.60	98.1	90	110				

Sample ID: **1511F98-002BMS** Client ID: Units: **mg/L** Prep Date: Run No: **304946**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R304946** Analysis Date: **11/18/2015** Seq No: **6531847**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	61.58	2.5	50.00	8.102	107	90	110				
Sulfate	290.0	10	250.0	32.98	103	90	110				

Sample ID: **1511F97-002BMSD** Client ID: Units: **mg/L** Prep Date: Run No: **304946**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R304946** Analysis Date: **11/18/2015** Seq No: **6531844**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	56.93	2.5	50.00	4.121	106	90	110	54.27	4.79	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: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511G15

ANALYTICAL QC SUMMARY REPORT

BatchID: R304946

Sample ID: **1511F97-002BMSD**	Client ID:		Units: **mg/L**	Prep Date:	Run No: **304946**
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**		BatchID: **R304946**	Analysis Date: **11/18/2015**	Seq No: **6531844**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	286.1	10	250.0	29.60	103	90	110	274.9	4.00	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		

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 30, 2015

Rhonda Quinn
AMEC E&I, Inc. -Kennesaw
1075 Big Shanty Rd NW
Kennesaw GA 30144

TEL: (770) 421-3400
FAX: (770) 421-3486

RE: BFEL-Atlanta

Dear Rhonda Quinn: Order No: 1511H18

Analytical Environmental Services, Inc. received 9 samples on 11/18/2015 1:30:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' 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 09/01/17.

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.

Ioana Pacurar

Ioana Pacurar
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: 15H418

Date: 11/18/15 TAT PH

Page 1 of 1

COMPANY: Amec Foster Wheeler

ADDRESS: 1075 Big Shanty Rd ste100 Kennesaw GA 30144

PHONE: 770-421-3400

FAX: 770-421-3486

SAMPLED BY: D Howard/M Bowen/E Guillen

SIGNATURE: Daniel Howard

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	Pest 8081A	NO_3,SO_4/9056	Diss metals 6020	PRESERVATION (See codes)			REMARKS	No # of Containers
1	SW-2010-5	11/18/15	1105	X		SW				2	1	1		4
2	SW-2010-10		1048	X		SW				2	1	1		4
3	SW-2010-11		1024	X		SW				2	1	1		4
4	DUP-03		1200	X		SW				2	1	1		4
5	SW-2010-14		1008	X		SW				2	1	1		4
6	SW-2010-15		1000	X		SW				2	1	1		4
7	SW-2010-17		0950	X		SW				2	1	1		4
8	SW-2014-20		1028	X		SW				2	1	1		4
9	SW-2014-21		1034	X		SW				2	1	1		4
10	Temp Blank													4
11														
12														
13														
14														

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

RELINQUISHED BY / DATE/TIME
1: 11-18-15/1330
2:
3:

RECEIVED BY / DATE/TIME
1: Nadia Cegde 11/18/15 13:30
2:
3:

SPECIAL INSTRUCTIONS/COMMENTS:
* Dissolved metals will be Filtered by the Lab
Metals: As, Cu, Pb, Zn

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

PROJECT INFORMATION
PROJECT NAME: BFEL Atlanta
PROJECT #: 612208015 4.18
SITE ADDRESS: 1525 Pine St Atlanta GA
SEND REPORT TO: ~~612208015 4.18~~ DIT
INVOICE TO: Rhonda Quinn
(IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers

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): GA
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

Analytical Environmental Services, Inc

Date: 30-Nov-15

Client: AMEC E&I, Inc. -Kennesaw
Project: BFEL-Atlanta
Lab ID: 1511H18

Case Narrative

Ion Chromotography Analysis by Method 9056A:

Due to sample matrix, sample(s) 1511H18-001B, -002B, -003B, -004B, -005B, -006B, -007B required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc **Date:** 30-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW-2010-5
Project Name:	BFEL-Atlanta	**Collection Date:**	11/18/2015 11:05:00 AM
Lab ID:	1511H18-001	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
ION SCAN SW9056A									
Nitrate	1.4	J	1.1	2.5	mg/L	R305046	10	11/19/2015 14:15	JW
Sulfate	97		5.4	10	mg/L	R305046	10	11/19/2015 14:15	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**				
Arsenic	2.12	J	0.167	5.00	ug/L	216295	1	11/24/2015 01:54	JS
Copper	6.30		0.204	2.00	ug/L	216295	1	11/24/2015 01:54	JS
Lead	BRL		0.309	1.00	ug/L	216295	1	11/24/2015 01:54	JS
Zinc	381		3.44	10.0	ug/L	216295	1	11/24/2015 01:54	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**				
4,4´-DDD	BRL		0.0082	0.10	ug/L	216212	1	11/23/2015 12:15	SH
4,4´-DDE	BRL		0.0069	0.10	ug/L	216212	1	11/23/2015 12:15	SH
4,4´-DDT	BRL		0.0063	0.10	ug/L	216212	1	11/23/2015 12:15	SH
alpha-BHC	0.059		0.0075	0.050	ug/L	216212	1	11/23/2015 12:15	SH
alpha-Chlordane	BRL		0.014	0.050	ug/L	216212	1	11/23/2015 12:15	SH
beta-BHC	0.064		0.0038	0.050	ug/L	216212	1	11/23/2015 12:15	SH
delta-BHC	0.024	J	0.0035	0.050	ug/L	216212	1	11/23/2015 12:15	SH
Dieldrin	BRL		0.0072	0.10	ug/L	216212	1	11/23/2015 12:15	SH
gamma-BHC	0.013	J	0.0063	0.050	ug/L	216212	1	11/23/2015 12:15	SH
gamma-Chlordane	BRL		0.0047	0.050	ug/L	216212	1	11/23/2015 12:15	SH
Heptachlor	BRL		0.0079	0.050	ug/L	216212	1	11/23/2015 12:15	SH
Methoxychlor	BRL		0.056	0.50	ug/L	216212	1	11/23/2015 12:15	SH
Toxaphene	BRL		0.18	5.0	ug/L	216212	1	11/23/2015 12:15	SH
Surr: Decachlorobiphenyl	68.8		0	14.5-127	%REC	216212	1	11/23/2015 12:15	SH
Surr: Tetrachloro-m-xylene	75.6		0	20.9-122	%REC	216212	1	11/23/2015 12:15	SH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 30-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW-2010-10
Project Name:	BFEL-Atlanta	**Collection Date:**	11/18/2015 10:48:00 AM
Lab ID:	1511H18-002	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
ION SCAN SW9056A									
Nitrate	1.3	J	1.1	2.5	mg/L	R305046	10	11/19/2015 14:30	JW
Sulfate	100		5.4	10	mg/L	R305046	10	11/19/2015 14:30	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**				
Arsenic	2.06	J	0.167	5.00	ug/L	216295	1	11/24/2015 01:18	JS
Copper	7.73		0.204	2.00	ug/L	216295	1	11/25/2015 16:16	JS
Lead	BRL		0.309	1.00	ug/L	216295	1	11/24/2015 01:18	JS
Zinc	444		3.44	10.0	ug/L	216295	1	11/25/2015 16:16	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**				
4,4´-DDD	BRL		0.0082	0.10	ug/L	216212	1	11/23/2015 13:10	SH
4,4´-DDE	BRL		0.0069	0.10	ug/L	216212	1	11/23/2015 13:10	SH
4,4´-DDT	BRL		0.0063	0.10	ug/L	216212	1	11/23/2015 13:10	SH
alpha-BHC	0.15		0.0075	0.050	ug/L	216212	1	11/23/2015 13:10	SH
alpha-Chlordane	BRL		0.014	0.050	ug/L	216212	1	11/23/2015 13:10	SH
beta-BHC	0.082		0.0038	0.050	ug/L	216212	1	11/23/2015 13:10	SH
delta-BHC	0.066		0.0035	0.050	ug/L	216212	1	11/25/2015 18:01	SH
Dieldrin	BRL		0.0072	0.10	ug/L	216212	1	11/23/2015 13:10	SH
gamma-BHC	0.063		0.0063	0.050	ug/L	216212	1	11/23/2015 13:10	SH
gamma-Chlordane	BRL		0.0047	0.050	ug/L	216212	1	11/23/2015 13:10	SH
Heptachlor	BRL		0.0079	0.050	ug/L	216212	1	11/23/2015 13:10	SH
Methoxychlor	BRL		0.056	0.50	ug/L	216212	1	11/23/2015 13:10	SH
Toxaphene	BRL		0.18	5.0	ug/L	216212	1	11/23/2015 13:10	SH
Surr: Decachlorobiphenyl	65.9		0	14.5-127	%REC	216212	1	11/23/2015 13:10	SH
Surr: Tetrachloro-m-xylene	75.9		0	20.9-122	%REC	216212	1	11/23/2015 13:10	SH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 30-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW-2010-11
Project Name:	BFEL-Atlanta	**Collection Date:**	11/18/2015 10:24:00 AM
Lab ID:	1511H18-003	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
ION SCAN SW9056A									
Nitrate	1.8	J	1.1	2.5	mg/L	R305046	10	11/19/2015 14:45	JW
Sulfate	100		5.4	10	mg/L	R305046	10	11/19/2015 14:45	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**				
Arsenic	1.68	J	0.167	5.00	ug/L	216295	1	11/24/2015 02:00	JS
Copper	6.69		0.204	2.00	ug/L	216295	1	11/24/2015 02:00	JS
Lead	BRL		0.309	1.00	ug/L	216295	1	11/24/2015 02:00	JS
Zinc	399		3.44	10.0	ug/L	216295	1	11/24/2015 02:00	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**				
4,4´-DDD	BRL		0.0082	0.10	ug/L	216212	1	11/23/2015 13:29	SH
4,4´-DDE	BRL		0.0069	0.10	ug/L	216212	1	11/23/2015 13:29	SH
4,4´-DDT	BRL		0.0063	0.10	ug/L	216212	1	11/23/2015 13:29	SH
alpha-BHC	0.18		0.0075	0.050	ug/L	216212	1	11/23/2015 13:29	SH
alpha-Chlordane	BRL		0.014	0.050	ug/L	216212	1	11/23/2015 13:29	SH
beta-BHC	0.092		0.0038	0.050	ug/L	216212	1	11/23/2015 13:29	SH
delta-BHC	0.074		0.0035	0.050	ug/L	216212	1	11/25/2015 18:12	SH
Dieldrin	0.016	J	0.0072	0.10	ug/L	216212	1	11/23/2015 13:29	SH
gamma-BHC	0.073		0.0063	0.050	ug/L	216212	1	11/23/2015 13:29	SH
gamma-Chlordane	BRL		0.0047	0.050	ug/L	216212	1	11/23/2015 13:29	SH
Heptachlor	BRL		0.0079	0.050	ug/L	216212	1	11/23/2015 13:29	SH
Methoxychlor	BRL		0.056	0.50	ug/L	216212	1	11/23/2015 13:29	SH
Toxaphene	BRL		0.18	5.0	ug/L	216212	1	11/23/2015 13:29	SH
Surr: Decachlorobiphenyl	59.5		0	14.5-127	%REC	216212	1	11/23/2015 13:29	SH
Surr: Tetrachloro-m-xylene	80.6		0	20.9-122	%REC	216212	1	11/23/2015 13:29	SH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 30-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	DUP-03
Project Name:	BFEL-Atlanta	**Collection Date:**	11/18/2015 12:00:00 PM
Lab ID:	1511H18-004	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
ION SCAN SW9056A									
Nitrate	1.3	J	1.1	2.5	mg/L	R305046	10	11/19/2015 15:00	JW
Sulfate	100		5.4	10	mg/L	R305046	10	11/19/2015 15:00	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**				
Arsenic	1.60	J	0.167	5.00	ug/L	216295	1	11/24/2015 02:05	JS
Copper	6.75		0.204	2.00	ug/L	216295	1	11/24/2015 02:05	JS
Lead	BRL		0.309	1.00	ug/L	216295	1	11/24/2015 02:05	JS
Zinc	400		3.44	10.0	ug/L	216295	1	11/24/2015 02:05	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**				
4,4´-DDD	0.0094	J	0.0082	0.10	ug/L	216212	1	11/23/2015 13:47	SH
4,4´-DDE	BRL		0.0069	0.10	ug/L	216212	1	11/23/2015 13:47	SH
4,4´-DDT	0.011	J	0.0063	0.10	ug/L	216212	1	11/23/2015 13:47	SH
alpha-BHC	0.11		0.0075	0.050	ug/L	216212	1	11/23/2015 13:47	SH
alpha-Chlordane	BRL		0.014	0.050	ug/L	216212	1	11/23/2015 13:47	SH
beta-BHC	0.074		0.0038	0.050	ug/L	216212	1	11/23/2015 13:47	SH
delta-BHC	0.062		0.0035	0.050	ug/L	216212	1	11/25/2015 18:23	SH
Dieldrin	BRL		0.0072	0.10	ug/L	216212	1	11/23/2015 13:47	SH
gamma-BHC	0.050		0.0063	0.050	ug/L	216212	1	11/23/2015 13:47	SH
gamma-Chlordane	BRL		0.0047	0.050	ug/L	216212	1	11/23/2015 13:47	SH
Heptachlor	BRL		0.0079	0.050	ug/L	216212	1	11/23/2015 13:47	SH
Methoxychlor	BRL		0.056	0.50	ug/L	216212	1	11/23/2015 13:47	SH
Toxaphene	BRL		0.18	5.0	ug/L	216212	1	11/23/2015 13:47	SH
Surr: Decachlorobiphenyl	52.8		0	14.5-127	%REC	216212	1	11/23/2015 13:47	SH
Surr: Tetrachloro-m-xylene	24.5		0	20.9-122	%REC	216212	1	11/23/2015 13:47	SH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 30-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW-2010-14
Project Name:	BFEL-Atlanta	**Collection Date:**	11/18/2015 10:08:00 AM
Lab ID:	1511H18-005	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
ION SCAN SW9056A									
Nitrate	1.8	J	1.1	2.5	mg/L	R305046	10	11/19/2015 15:16	JW
Sulfate	130		5.4	10	mg/L	R305046	10	11/19/2015 15:16	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**				
Arsenic	1.09	J	0.167	5.00	ug/L	216295	1	11/24/2015 02:10	JS
Copper	15.9		0.204	2.00	ug/L	216295	1	11/24/2015 02:10	JS
Lead	BRL		0.309	1.00	ug/L	216295	1	11/24/2015 02:10	JS
Zinc	800		3.44	10.0	ug/L	216295	1	11/24/2015 02:10	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**				
4,4´-DDD	BRL		0.0082	0.10	ug/L	216212	1	11/23/2015 14:06	SH
4,4´-DDE	BRL		0.0069	0.10	ug/L	216212	1	11/23/2015 14:06	SH
4,4´-DDT	BRL		0.0063	0.10	ug/L	216212	1	11/23/2015 14:06	SH
alpha-BHC	0.20		0.0075	0.050	ug/L	216212	1	11/23/2015 14:06	SH
alpha-Chlordane	BRL		0.014	0.050	ug/L	216212	1	11/23/2015 14:06	SH
beta-BHC	0.30		0.0038	0.050	ug/L	216212	1	11/23/2015 14:06	SH
delta-BHC	0.12		0.0035	0.050	ug/L	216212	1	11/25/2015 18:34	SH
Dieldrin	0.014	J	0.0072	0.10	ug/L	216212	1	11/23/2015 14:06	SH
gamma-BHC	0.071		0.0063	0.050	ug/L	216212	1	11/23/2015 14:06	SH
gamma-Chlordane	BRL		0.0047	0.050	ug/L	216212	1	11/23/2015 14:06	SH
Heptachlor	BRL		0.0079	0.050	ug/L	216212	1	11/23/2015 14:06	SH
Methoxychlor	BRL		0.056	0.50	ug/L	216212	1	11/23/2015 14:06	SH
Toxaphene	BRL		0.18	5.0	ug/L	216212	1	11/23/2015 14:06	SH
Surr: Decachlorobiphenyl	51.1		0	14.5-127	%REC	216212	1	11/23/2015 14:06	SH
Surr: Tetrachloro-m-xylene	73.5		0	20.9-122	%REC	216212	1	11/23/2015 14:06	SH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 30-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW-2010-15
Project Name:	BFEL-Atlanta	**Collection Date:**	11/18/2015 10:00:00 AM
Lab ID:	1511H18-006	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
ION SCAN SW9056A									
Nitrate	1.6	J	1.1	2.5	mg/L	R305046	10	11/19/2015 15:31	JW
Sulfate	130		5.4	10	mg/L	R305046	10	11/19/2015 15:31	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**				
Arsenic	1.15	J	0.167	5.00	ug/L	216295	1	11/24/2015 02:16	JS
Copper	14.4		0.204	2.00	ug/L	216295	1	11/24/2015 02:16	JS
Lead	BRL		0.309	1.00	ug/L	216295	1	11/24/2015 02:16	JS
Zinc	740		3.44	10.0	ug/L	216295	1	11/24/2015 02:16	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**				
4,4´-DDD	BRL		0.0082	0.10	ug/L	216212	1	11/23/2015 14:24	SH
4,4´-DDE	BRL		0.0069	0.10	ug/L	216212	1	11/23/2015 14:24	SH
4,4´-DDT	0.0068	J	0.0063	0.10	ug/L	216212	1	11/23/2015 14:24	SH
alpha-BHC	0.20		0.0075	0.050	ug/L	216212	1	11/23/2015 14:24	SH
alpha-Chlordane	BRL		0.014	0.050	ug/L	216212	1	11/23/2015 14:24	SH
beta-BHC	0.29		0.0038	0.050	ug/L	216212	1	11/23/2015 14:24	SH
delta-BHC	0.11		0.0035	0.050	ug/L	216212	1	11/25/2015 18:45	SH
Dieldrin	BRL		0.0072	0.10	ug/L	216212	1	11/23/2015 14:24	SH
gamma-BHC	0.065		0.0063	0.050	ug/L	216212	1	11/23/2015 14:24	SH
gamma-Chlordane	BRL		0.0047	0.050	ug/L	216212	1	11/23/2015 14:24	SH
Heptachlor	BRL		0.0079	0.050	ug/L	216212	1	11/23/2015 14:24	SH
Methoxychlor	BRL		0.056	0.50	ug/L	216212	1	11/23/2015 14:24	SH
Toxaphene	BRL		0.18	5.0	ug/L	216212	1	11/23/2015 14:24	SH
Surr: Decachlorobiphenyl	54.7		0	14.5-127	%REC	216212	1	11/23/2015 14:24	SH
Surr: Tetrachloro-m-xylene	76.9		0	20.9-122	%REC	216212	1	11/23/2015 14:24	SH

Qualifiers:

- * Value exceeds maximum contaminant level
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- B Analyte detected in the associated method blank
- NC Not confirmed
- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 30-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW-2010-17
Project Name:	BFEL-Atlanta	**Collection Date:**	11/18/2015 9:50:00 AM
Lab ID:	1511H18-007	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
ION SCAN SW9056A									
Nitrate	1.6	J	1.1	2.5	mg/L	R305046	10	11/19/2015 15:46	JW
Sulfate	120		5.4	10	mg/L	R305046	10	11/19/2015 15:46	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**				
Arsenic	1.11	J	0.167	5.00	ug/L	216295	1	11/24/2015 02:21	JS
Copper	10.7		0.204	2.00	ug/L	216295	1	11/24/2015 02:21	JS
Lead	BRL		0.309	1.00	ug/L	216295	1	11/24/2015 02:21	JS
Zinc	704		3.44	10.0	ug/L	216295	1	11/24/2015 02:21	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**				
4,4´-DDD	BRL		0.0082	0.10	ug/L	216212	1	11/23/2015 14:42	SH
4,4´-DDE	BRL		0.0069	0.10	ug/L	216212	1	11/23/2015 14:42	SH
4,4´-DDT	BRL		0.0063	0.10	ug/L	216212	1	11/23/2015 14:42	SH
alpha-BHC	0.18		0.0075	0.050	ug/L	216212	1	11/23/2015 14:42	SH
alpha-Chlordane	BRL		0.014	0.050	ug/L	216212	1	11/23/2015 14:42	SH
beta-BHC	0.27		0.0038	0.050	ug/L	216212	1	11/23/2015 14:42	SH
delta-BHC	0.095		0.0035	0.050	ug/L	216212	1	11/25/2015 18:56	SH
Dieldrin	BRL		0.0072	0.10	ug/L	216212	1	11/23/2015 14:42	SH
gamma-BHC	0.055		0.0063	0.050	ug/L	216212	1	11/23/2015 14:42	SH
gamma-Chlordane	BRL		0.0047	0.050	ug/L	216212	1	11/23/2015 14:42	SH
Heptachlor	BRL		0.0079	0.050	ug/L	216212	1	11/23/2015 14:42	SH
Methoxychlor	BRL		0.056	0.50	ug/L	216212	1	11/23/2015 14:42	SH
Toxaphene	BRL		0.18	5.0	ug/L	216212	1	11/23/2015 14:42	SH
Surr: Decachlorobiphenyl	58.5		0	14.5-127	%REC	216212	1	11/23/2015 14:42	SH
Surr: Tetrachloro-m-xylene	75.2		0	20.9-122	%REC	216212	1	11/23/2015 14:42	SH

Qualifiers:

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- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 30-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW-2014-20
Project Name:	BFEL-Atlanta	**Collection Date:**	11/18/2015 10:28:00 AM
Lab ID:	1511H18-008	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
ION SCAN SW9056A									
Nitrate	6.9		1.1	2.5	mg/L	R305046	10	11/19/2015 16:01	JW
Sulfate	300		5.4	10	mg/L	R305046	10	11/19/2015 16:01	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**				
Arsenic	0.183	J	0.167	5.00	ug/L	216295	1	11/24/2015 02:26	JS
Copper	227		0.204	2.00	ug/L	216295	1	11/24/2015 02:26	JS
Lead	BRL		0.309	1.00	ug/L	216295	1	11/24/2015 02:26	JS
Zinc	5840		3.44	10.0	ug/L	216295	1	11/24/2015 02:26	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**				
4,4´-DDD	BRL		0.0082	0.10	ug/L	216212	1	11/23/2015 15:01	SH
4,4´-DDE	BRL		0.0069	0.10	ug/L	216212	1	11/23/2015 15:01	SH
4,4´-DDT	BRL		0.0063	0.10	ug/L	216212	1	11/23/2015 15:01	SH
alpha-BHC	0.33		0.0075	0.050	ug/L	216212	1	11/23/2015 15:01	SH
alpha-Chlordane	BRL		0.014	0.050	ug/L	216212	1	11/23/2015 15:01	SH
beta-BHC	2.1		0.019	0.25	ug/L	216212	5	11/25/2015 19:30	SH
delta-BHC	0.17		0.0035	0.050	ug/L	216212	1	11/25/2015 19:08	SH
Dieldrin	0.038	J	0.0072	0.10	ug/L	216212	1	11/23/2015 15:01	SH
gamma-BHC	0.16		0.0063	0.050	ug/L	216212	1	11/23/2015 15:01	SH
gamma-Chlordane	BRL		0.0047	0.050	ug/L	216212	1	11/23/2015 15:01	SH
Heptachlor	BRL		0.0079	0.050	ug/L	216212	1	11/23/2015 15:01	SH
Methoxychlor	BRL		0.056	0.50	ug/L	216212	1	11/23/2015 15:01	SH
Toxaphene	BRL		0.18	5.0	ug/L	216212	1	11/23/2015 15:01	SH
Surr: Decachlorobiphenyl	40.8		0	14.5-127	%REC	216212	1	11/23/2015 15:01	SH
Surr: Tetrachloro-m-xylene	79.6		0	20.9-122	%REC	216212	1	11/23/2015 15:01	SH

Qualifiers:

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- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 30-Nov-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW-2014-21
Project Name:	BFEL-Atlanta	**Collection Date:**	11/18/2015 10:34:00 AM
Lab ID:	1511H18-009	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
ION SCAN SW9056A									
Nitrate	7.6		1.1	2.5	mg/L	R305046	10	11/19/2015 16:16	JW
Sulfate	310		5.4	10	mg/L	R305046	10	11/19/2015 16:16	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**				
Arsenic	0.180	J	0.167	5.00	ug/L	216295	1	11/24/2015 02:32	JS
Copper	327		0.204	2.00	ug/L	216295	1	11/24/2015 02:32	JS
Lead	BRL		0.309	1.00	ug/L	216295	1	11/24/2015 02:32	JS
Zinc	6350		3.44	10.0	ug/L	216295	1	11/24/2015 02:32	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**				
4,4´-DDD	BRL		0.0082	0.10	ug/L	216212	1	11/23/2015 15:19	SH
4,4´-DDE	BRL		0.0069	0.10	ug/L	216212	1	11/23/2015 15:19	SH
4,4´-DDT	BRL		0.0063	0.10	ug/L	216212	1	11/23/2015 15:19	SH
alpha-BHC	0.17		0.0075	0.050	ug/L	216212	1	11/23/2015 15:19	SH
alpha-Chlordane	BRL		0.014	0.050	ug/L	216212	1	11/23/2015 15:19	SH
beta-BHC	2.2		0.019	0.25	ug/L	216212	5	11/25/2015 19:41	SH
delta-BHC	0.13		0.0035	0.050	ug/L	216212	1	11/25/2015 19:19	SH
Dieldrin	0.041	J	0.0072	0.10	ug/L	216212	1	11/23/2015 15:19	SH
gamma-BHC	0.092		0.0063	0.050	ug/L	216212	1	11/23/2015 15:19	SH
gamma-Chlordane	BRL		0.0047	0.050	ug/L	216212	1	11/23/2015 15:19	SH
Heptachlor	BRL		0.0079	0.050	ug/L	216212	1	11/23/2015 15:19	SH
Methoxychlor	BRL		0.056	0.50	ug/L	216212	1	11/23/2015 15:19	SH
Toxaphene	BRL		0.18	5.0	ug/L	216212	1	11/23/2015 15:19	SH
Surr: Decachlorobiphenyl	41.5		0	14.5-127	%REC	216212	1	11/23/2015 15:19	SH
Surr: Tetrachloro-m-xylene	70.4		0	20.9-122	%REC	216212	1	11/23/2015 15:19	SH

Qualifiers:

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- Narr See case narrative

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client AMEC/KENNESAW Work Order Number 1511H18

Checklist completed by Signature Date 11/18/2015

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 3.1°C Cooler #3 3.2°C 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 MP

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.

Analytical Environmental Services, Inc

Date: 30-Nov-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1511H18

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1511H18-001A	SW-2010-5	11/18/2015 11:05:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2015 12:00:00 PM	11/23/2015
1511H18-001B	SW-2010-5	11/18/2015 11:05:00AM	Surface Water	ION SCAN			11/19/2015
1511H18-001C	SW-2010-5	11/18/2015 11:05:00AM	Surface Water	Dissolved Metals by ICP/MS		11/23/2015 11:11:58 AM	11/24/2015
1511H18-002A	SW-2010-10	11/18/2015 10:48:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2015 12:00:00 PM	11/23/2015
1511H18-002A	SW-2010-10	11/18/2015 10:48:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2015 12:00:00 PM	11/25/2015
1511H18-002B	SW-2010-10	11/18/2015 10:48:00AM	Surface Water	ION SCAN			11/19/2015
1511H18-002C	SW-2010-10	11/18/2015 10:48:00AM	Surface Water	Dissolved Metals by ICP/MS		11/23/2015 11:11:58 AM	11/24/2015
1511H18-002C	SW-2010-10	11/18/2015 10:48:00AM	Surface Water	Dissolved Metals by ICP/MS		11/23/2015 11:11:58 AM	11/25/2015
1511H18-003A	SW-2010-11	11/18/2015 10:24:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2015 12:00:00 PM	11/23/2015
1511H18-003A	SW-2010-11	11/18/2015 10:24:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2015 12:00:00 PM	11/25/2015
1511H18-003B	SW-2010-11	11/18/2015 10:24:00AM	Surface Water	ION SCAN			11/19/2015
1511H18-003C	SW-2010-11	11/18/2015 10:24:00AM	Surface Water	Dissolved Metals by ICP/MS		11/23/2015 11:11:58 AM	11/24/2015
1511H18-004A	DUP-03	11/18/2015 12:00:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2015 12:00:00 PM	11/23/2015
1511H18-004A	DUP-03	11/18/2015 12:00:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2015 12:00:00 PM	11/25/2015
1511H18-004B	DUP-03	11/18/2015 12:00:00PM	Surface Water	ION SCAN			11/19/2015
1511H18-004C	DUP-03	11/18/2015 12:00:00PM	Surface Water	Dissolved Metals by ICP/MS		11/23/2015 11:11:58 AM	11/24/2015
1511H18-005A	SW-2010-14	11/18/2015 10:08:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2015 12:00:00 PM	11/23/2015
1511H18-005A	SW-2010-14	11/18/2015 10:08:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2015 12:00:00 PM	11/25/2015
1511H18-005B	SW-2010-14	11/18/2015 10:08:00AM	Surface Water	ION SCAN			11/19/2015
1511H18-005C	SW-2010-14	11/18/2015 10:08:00AM	Surface Water	Dissolved Metals by ICP/MS		11/23/2015 11:11:58 AM	11/24/2015
1511H18-006A	SW-2010-15	11/18/2015 10:00:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2015 12:00:00 PM	11/23/2015
1511H18-006A	SW-2010-15	11/18/2015 10:00:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2015 12:00:00 PM	11/25/2015
1511H18-006B	SW-2010-15	11/18/2015 10:00:00AM	Surface Water	ION SCAN			11/19/2015
1511H18-006C	SW-2010-15	11/18/2015 10:00:00AM	Surface Water	Dissolved Metals by ICP/MS		11/23/2015 11:11:58 AM	11/24/2015
1511H18-007A	SW-2010-17	11/18/2015 9:50:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2015 12:00:00 PM	11/23/2015
1511H18-007A	SW-2010-17	11/18/2015 9:50:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2015 12:00:00 PM	11/25/2015
1511H18-007B	SW-2010-17	11/18/2015 9:50:00AM	Surface Water	ION SCAN			11/19/2015
1511H18-007C	SW-2010-17	11/18/2015 9:50:00AM	Surface Water	Dissolved Metals by ICP/MS		11/23/2015 11:11:58 AM	11/24/2015
1511H18-008A	SW-2014-20	11/18/2015 10:28:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2015 12:00:00 PM	11/23/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1511H18

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1511H18-008A	SW-2014-20	11/18/2015 10:28:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2015 12:00:00 PM	11/25/2015
1511H18-008B	SW-2014-20	11/18/2015 10:28:00AM	Surface Water	ION SCAN			11/19/2015
1511H18-008C	SW-2014-20	11/18/2015 10:28:00AM	Surface Water	Dissolved Metals by ICP/MS		11/23/2015 11:11:58 AM	11/24/2015
1511H18-009A	SW-2014-21	11/18/2015 10:34:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2015 12:00:00 PM	11/23/2015
1511H18-009A	SW-2014-21	11/18/2015 10:34:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2015 12:00:00 PM	11/25/2015
1511H18-009B	SW-2014-21	11/18/2015 10:34:00AM	Surface Water	ION SCAN			11/19/2015
1511H18-009C	SW-2014-21	11/18/2015 10:34:00AM	Surface Water	Dissolved Metals by ICP/MS		11/23/2015 11:11:58 AM	11/24/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511H18

ANALYTICAL QC SUMMARY REPORT

BatchID: 216212

Sample ID: **MB-216212** Client ID: Units: **ug/L** Prep Date: **11/20/2015** Run No: **305229**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **216212** Analysis Date: **11/23/2015** Seq No: **6538622**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDD	BRL	0.10									
4,4´-DDE	BRL	0.10									
4,4´-DDT	BRL	0.10									
alpha-BHC	BRL	0.050									
alpha-Chlordane	BRL	0.050									
beta-BHC	BRL	0.050									
delta-BHC	BRL	0.050									
Dieldrin	BRL	0.10									
gamma-BHC	BRL	0.050									
gamma-Chlordane	BRL	0.050									
Heptachlor	BRL	0.050									
Methoxychlor	BRL	0.50									
Toxaphene	BRL	5.0									
Surr: Decachlorobiphenyl	0.3351	0	0.5000		67.0	14.5	127				
Surr: Tetrachloro-m-xylene	0.3612	0	0.5000		72.2	20.9	122				

Sample ID: **LCS-216212** Client ID: Units: **ug/L** Prep Date: **11/20/2015** Run No: **305229**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **216212** Analysis Date: **11/23/2015** Seq No: **6538623**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.9161	0.10	1.000		91.6	56.2	135				
Dieldrin	0.8634	0.10	1.000		86.3	62.3	129				
gamma-BHC	0.8229	0.050	1.000		82.3	58.5	127				
Heptachlor	0.8313	0.050	1.000		83.1	50.7	132				
Surr: Decachlorobiphenyl	0.3825	0	0.5000		76.5	14.5	127				
Surr: Tetrachloro-m-xylene	0.3875	0	0.5000		77.5	20.9	122				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511H18

ANALYTICAL QC SUMMARY REPORT

BatchID: 216212

Sample ID: **1511H18-001AMS**	Client ID: **SW-2010-5**	Units: **ug/L**	Prep Date: **11/20/2015**	Run No: **305229**
SampleType: **MS**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**	BatchID: **216212**	Analysis Date: **11/23/2015**	Seq No: **6538625**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.9561	0.10	1.000		95.6	37.9	153				
Dieldrin	0.9225	0.10	1.000		92.2	48.7	139				
gamma-BHC	0.8782	0.050	1.000	0.01276	86.5	52	139				
Heptachlor	0.8837	0.050	1.000		88.4	36.3	145				
Surr: Decachlorobiphenyl	0.3572	0	0.5000		71.4	14.5	127				
Surr: Tetrachloro-m-xylene	0.3980	0	0.5000		79.6	20.9	122				

Sample ID: **1511H18-001AMSD**	Client ID: **SW-2010-5**	Units: **ug/L**	Prep Date: **11/20/2015**	Run No: **305229**
SampleType: **MSD**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**	BatchID: **216212**	Analysis Date: **11/23/2015**	Seq No: **6538626**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.9103	0.10	1.000		91.0	37.9	153	0.9561	4.91	33.7	
Dieldrin	0.8898	0.10	1.000		89.0	48.7	139	0.9225	3.60	27.1	
gamma-BHC	0.8331	0.050	1.000	0.01276	82.0	52	139	0.8782	5.27	29.8	
Heptachlor	0.8384	0.050	1.000		83.8	36.3	145	0.8837	5.26	33.3	
Surr: Decachlorobiphenyl	0.3424	0	0.5000		68.5	14.5	127	0.3572	0	0	
Surr: Tetrachloro-m-xylene	0.3921	0	0.5000		78.4	20.9	122	0.3980	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511H18

ANALYTICAL QC SUMMARY REPORT

BatchID: 216295

Sample ID: **MB-216295** Client ID: Units: **ug/L** Prep Date: **11/23/2015** Run No: **305033**
SampleType: **MBLK** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **216295** Analysis Date: **11/24/2015** Seq No: **6534292**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00									
Copper	BRL	2.00									
Lead	BRL	1.00									
Zinc	BRL	10.0									

Sample ID: **LCS-216295** Client ID: Units: **ug/L** Prep Date: **11/23/2015** Run No: **305033**
SampleType: **LCS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **216295** Analysis Date: **11/24/2015** Seq No: **6534294**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	88.18	5.00	100.0		88.2	80	120				
Copper	88.76	2.00	100.0		88.8	80	120				
Lead	95.74	1.00	100.0		95.7	80	120				
Zinc	87.84	10.0	100.0		87.8	80	120				

Sample ID: **1511H18-002CMS** Client ID: **SW-2010-10** Units: **ug/L** Prep Date: **11/23/2015** Run No: **305033**
SampleType: **MS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **216295** Analysis Date: **11/24/2015** Seq No: **6534296**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	93.65	5.00	100.0	2.061	91.6	75	125				
Lead	91.06	1.00	100.0		91.1	75	125				

Sample ID: **1511H18-002CMS** Client ID: **SW-2010-10** Units: **ug/L** Prep Date: **11/23/2015** Run No: **305033**
SampleType: **MS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **216295** Analysis Date: **11/25/2015** Seq No: **6539105**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	103.6	2.00	100.0	7.728	95.9	75	125				
Zinc	549.3	10.0	100.0	444.2	105	75	125				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511H18

ANALYTICAL QC SUMMARY REPORT

BatchID: 216295

Sample ID: **1511H18-002CMSD**	Client ID: **SW-2010-10**				Units: **ug/L**		Prep Date: **11/23/2015**		Run No: **305033**
SampleType: **MSD**	TestCode: **Dissolved Metals by ICP/MS SW6020A**				BatchID: **216295**		Analysis Date: **11/24/2015**		Seq No: **6534298**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	88.47	5.00	100.0	2.061	86.4	75	125	93.65	5.69	20	
Lead	85.77	1.00	100.0		85.8	75	125	91.06	5.99	20	

Sample ID: **1511H18-002CMSD**	Client ID: **SW-2010-10**				Units: **ug/L**		Prep Date: **11/23/2015**		Run No: **305033**
SampleType: **MSD**	TestCode: **Dissolved Metals by ICP/MS SW6020A**				BatchID: **216295**		Analysis Date: **11/25/2015**		Seq No: **6539106**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	102.0	2.00	100.0	7.728	94.3	75	125	103.6	1.59	20	
Zinc	553.2	10.0	100.0	444.2	109	75	125	549.3	0.701	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511H18

ANALYTICAL QC SUMMARY REPORT

BatchID: R305046

Sample ID: **MB-R305046**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **305046**	
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**				BatchID: **R305046**		Analysis Date: **11/19/2015**		Seq No: **6534767**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Nitrate	BRL	0.25								
Sulfate	BRL	1.0								

Sample ID: **LCS-R305046**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **305046**	
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**				BatchID: **R305046**		Analysis Date: **11/19/2015**		Seq No: **6534766**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Nitrate	5.100	0.25	5.000		102	90	110			
Sulfate	25.36	1.0	25.00		101	90	110			

Sample ID: **1511H33-002BMS**	Client ID: **LINE CREEK EFFLUENT**				Units: **mg/L**		Prep Date:		Run No: **305046**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R305046**		Analysis Date: **11/19/2015**		Seq No: **6534770**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Nitrate	57.08	2.5	50.00	3.974	106	90	110			
Sulfate	295.5	10	250.0	34.54	104	90	110			

Sample ID: **1511H34-002BMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **305046**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R305046**		Analysis Date: **11/19/2015**		Seq No: **6534776**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Nitrate	62.55	2.5	50.00	7.640	110	90	110			
Sulfate	288.4	10	250.0	34.38	102	90	110			

Sample ID: **1511H33-002BMSD**	Client ID: **LINE CREEK EFFLUENT**				Units: **mg/L**		Prep Date:		Run No: **305046**	
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**				BatchID: **R305046**		Analysis Date: **11/19/2015**		Seq No: **6534771**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Nitrate	57.13	2.5	50.00	3.974	106	90	110	57.08	0.082	20

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1511H18

ANALYTICAL QC SUMMARY REPORT

BatchID: R305046

Sample ID: **1511H33-002BMSD**	Client ID: **LINE CREEK EFFLUENT**		Units: **mg/L**	Prep Date:	Run No: **305046**
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**		BatchID: **R305046**	Analysis Date: **11/19/2015**	Seq No: **6534771**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	295.4	10	250.0	34.54	104	90	110	295.5	0.037	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		

FIELD SAMPLING FORMS

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-1B DEPTH TO PRODUCT: _____ DATE: 11/10/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 14:15

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 23.85 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 32.17 _____

Arrived at: 13:02 PURGE VOLUME: 8.29 X 0.163 = 1.35 X 3 = 4.05 (gl) WELL DIAMETER (inches):

Initial PID = _____ 2-inch

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 13:30	0.1	6.94	18.96	0.380	64.3	37.2	168	400 (ml/m	23.94
13:60	2.0	7.03	19.91	0.403	2.6	24.8	174	400	23.83
14:00	3.0	7.03	19.97	0.404	1.9	24.6	175	400	23.83
14:10	4.0	7.04	20.02	0.404	1.0	24.9	176	400	23.83
14:13	4.2	7.05	20.04	0.403	1.0	23.9	176	400	23.83

COMMENTS: Sampled at 14:15

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION	
WEATHER:	Clear
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER: Matthew Bowen	OBSERVER:

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-22 DEPTH TO PRODUCT: _____ DATE: 11/12/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 13:45

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 18.33 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 28.89 _____

Arrived at: 1215 PURGE VOLUME: 10.56 x 0.163 = 1.72 WELL DIAMETER (inches):

Initial PID = _____ 1.72 x 3 = 5.16(g) 2-inch

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: ~~0~~ 1254	0.1	4.14	18.15	0.598	164	75.7	314	~~200~~ 200	19.46
13:05	1.0	4.29	18.26	0.614	164	69.8	315	~~200~~ 200	19.47
13:10	1.6	4.21	18.64	0.614	80.6	43.8	316	~~200~~ 200	19.52
13:15	2.1	4.19	18.93	0.610	55.4	69.2	316	200	19.52
13:20	2.8	4.20	18.96	0.612	15.3	46.7	319	200	19.52
13:25	3.5	4.19	18.87	0.607	9.1	34.1	319	200	19.52
13:30	4.2	4.21	18.79	0.604	5.6	29.9	320	200	19.52
13:35	4.9	4.01	18.83	0.603	4.8	29.4	320	200	19.52
13:40	5.4	4.21	18.73	0.603	2.2	29.2	320	200	19.52

COMMENTS: Sampled at 13:45

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	Cloudy / Dry	
SHIPPED VIA:	FedEX or lab courier	
SHIPPED TO:	AES -Atlanta, GA	
SAMPLER: Matthew Bean	OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-25 DEPTH TO PRODUCT: NA DATE: 11/13/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1110

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 27.99 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 29.51 _____

Arrived at: 1005 PURGE VOLUME: 1.52 x 0.163 = 0.25 x 3 WELL DIAMETER (inches):
Initial PID = NA = 0.75 2-inch
Bailing PID = NA

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1040	0.1	4.69	15.34	0.617	4.1	2.86	231	150 ( )	28.15
1045	0.3	4.51	15.77	0.640	2.6	2.37	256	150	28.22
1050	0.5	4.46	15.89	0.651	1.6	2.28	271	150	28.29
1055	0.7	4.44	16.03	0.659	1.5	2.22	287	150	28.36
1100	0.9	4.44	16.13	0.659	2.4	2.15	298	150	28.40
1105	1.1	4.43	16.12	0.659	5.8	2.13	305	150	28.44
1108	1.2	4.42	16.18	0.659	1.5	2.12	307	150	28.47

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	Partly Sunny, Temp 52°F	
SHIPPED VIA:	FedEX or lab courier	
SHIPPED TO:	AES -Atlanta, GA	
SAMPLER: Daniel Howard	OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-26 DEPTH TO PRODUCT: _____ DATE: 11-11-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1150

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 9.69 DEPTH TO PASSIVE DIFFUSION BAG (btoc) _____

TOTAL DEPTH: 28.90

19.21 X .17 = 3.26 X 3 = 9.79

Arrived at: _____ PURGE VOLUME: 9.79 WELL DIAMETER (inches):

Initial PID = _____ 2-inch

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1005	0.5	5.29	17.81	0.505	837	7.80	238	400 ( )	10.15
1010	1.0	5.15	18.11	0.610	170	7.16	261		10.15
1020	2.0	5.13	18.31	0.600	35.9	5.69	278		10.15
1040	4.0	5.12	18.34	0.598	22.8	4.79	285		10.15
1100	6.0	5.12	18.34	0.588	16.9	4.05	288		10.15
1110	7.0	5.12	18.37	0.586	13.6	3.23	293		10.15
1120	8.0	5.11	18.39	0.583	9.1	2.60	295		10.15
1130	9.0	5.10	18.41	0.585	7.5	2.18	299		10.15
1140	10.0	5.11	18.42	0.583	6.3	1.88	300		10.15
1150	Collect		Sample						
COMMENTS:									

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	Cool - Clear - Humid	
SHIPPED VIA:	FedEX or lab courier	
SHIPPED TO:	AES -Atlanta, GA	
SAMPLER: Ever Guillen		OBSERVER:

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

FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

Amec Foster Wheeler
1075 Big Shanty Road NW
Ste. 100
Kennesaw, GA 30144

WELL ID: MW-101 DEPTH TO PRODUCT: _____ DATE: 11-10-15

SAMPLE METHOD: GRUNDFOS SAMPLE TIME: 1300

DUP./REP. OF: _____ DEPTH TO WATER: 14.78 GRAB (X) COMPOSITE ( )

TOTAL DEPTH: 26.87

12.09 X .17 = 2.05 X 3 = 6.14

PURGE VOLUME: 6.14

[0.163 x water column height (ft) x 3 (well volumes) for 2" wells]

TIME	VOL. PURGED (gal)	pH	TEMP (°C)	SPEC. COND. (ms/cm)	ORP (mV)	TURB. (NTU)	DO (mg/L)	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1152		4.79	18.79	0.458	117.0	323.0	3.05	400 ( )	
1157	0.75	4.78	18.95	0.414	136.0	321.0	2.89		15.09
1202	1.25	4.79	19.98	0.391	209.0	196.0	2.17		15.29
1207	1.75	4.84	20.78	0.381	152	127.0	1.48		15.32
1212	2.25	4.85	20.86	0.371	118	60.2	0.99		15.38
1217	2.75	4.87	20.87	0.359	91	33.9	0.59		15.42
1222	3.25	4.89	20.83	0.354	78	26.7	0.44		15.46
1227	3.75	4.88	20.86	0.345	74	19.8	0.23		1550
1232	4.25	4.88	20.87	0.345	75	15.2	0.14		1558
1237	4.75	4.87	20.84	0.344	75	16.9	0.11		1561
1242	5.25	4.87	20.87	0.340	76	12.4	0.08		1564
1247	5.75	4.87	20.89	0.337	76	10.2	0.03		1566
1252	6.25	4.86	20.90	0.339	76	9.1	0.01		1569
1300	Collect	Sample							

Low Flow Stability Critera: pH = ± 0.1 ORP = ± 10mV Sp. Cond = ± 3% DO = ± 10% Turb. < 10 NTU

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
1-L AMBER	2	None	8081A	Pesticides
250 POLY	1	None	6020	Diss metals
250 POLY	1	HNO3	6020	Total metals
500 POLY	1	None	9056	NO_3, SO_4
40ML VIAL	2	HCL	8260	Site-specific VOCs

GENERAL INFORMATION			
WEATHER:	Cool - Humid - Cloudy - Some Rain		
SHIPPED VIA:	AES		
SHIPPED TO:	AES		
SAMPLER:	EVER GUILLEN	OBSERVER:	

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-102 DEPTH TO PRODUCT:_____ DATE: 11-10-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1615

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 23.63 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 32.90

9.27 x .17 = 1.57 x 3 = 4.72

Arrived at:_____ PURGE VOLUME: 4.72 WELL DIAMETER (inches):

Initial PID = _____ 2-inch

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1440	0.5	5.86	18.83	0.237	76.1	6.79	161	200 ( )	23.89
1450	1.0	5.87	19.65	0.233	50.5	5.97	162		23.99
1500	1.5	5.88	19.95	0.232	37.1	5.86	168		24.15
1510	2.0	5.89	20.12	0.231	12.4	5.67	173		24.17
1520	2.5	5.89	20.07	0.230	4.5	5.27	185		24.21
1530	3.0	5.88	20.10	0.231	3.4	5.06	189		24.21
1540	3.5	5.88	20.14	0.231	2.7	4.90	190		24.21
1550	4.0	5.88	20.24	0.231	2.3	4.79	192		24.21
1555	4.25	5.88	20.23	0.231	2.0	4.72	193		24.21
1600	4.5	5.89	20.22	0.231	1.8	4.66	194		24.21
1605	4.75	5.88	20.18	0.230	1.6	4.58	196		24.21
1615	Collect Sample								

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
250 ~~500~~ mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
250 ~~500~~ mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 ~~250 500~~ mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	Cool - Cloudy - Humid	
SHIPPED VIA:	FedEX or lab courier	
SHIPPED TO:	AES -Atlanta, GA	
SAMPLER: Ever Guillen	OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-104A DEPTH TO PRODUCT:_____ DATE: 11-11-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1530

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 13.31 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 39.35
26.04 x .17 = 4.42 x 3 = 13.28

Arrived at:_____ PURGE VOLUME: 13.28 WELL DIAMETER (inches):

Initial PID = _____ 2-inch

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1315	0.5	6.47	19.32	0.869	114.0	7.62	-22	400 ( )	13.43
1320	1.0	6.48	19.43	0.866	73.3	6.81	-31		13.82
1340	3.0	6.51	19.72	0.901	56.6	4.83	-48		14.13
1400	5.0	6.52	19.74	0.902	48.9	3.91	-52		14.13
1420	7.0	6.52	19.63	0.905	38.5	3.29	-54		14.13
1440	9.0	6.52	19.63	0.905	24.6	0.0	-56		14.13
1500	11.0	6.52	19.57	0.908	16.4	0.0	-58		14.13
1520	13.0	6.51	19.52	0.910	13.0	0.0	-60		14.13
1523	13.25	6.51	19.53	0.911	9.8	0.0	-60		14.13
1530	collect	sample							

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	COOL - CLEAR - HUMID	
SHIPPED VIA:	FedEX or lab courier	
SHIPPED TO:	AES -Atlanta, GA	
SAMPLER: EVER GUILLEN		OBSERVER:

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-104D DEPTH TO PRODUCT: _____ DATE: 11-12-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1610

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: DUP-1 DEPTH TO WATER: 16.93 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 82.92 _____

65.99 x .17 = 11.21 x 3 = 33.65

Arrived at: _____ PURGE VOLUME: 33.65 WELL DIAMETER (inches):

Initial PID = _____ 2-inch

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 925	1.0	6.32	18.26	3.22	59.2	0.0	-9	400 ( )	20.12
935	3.0	6.35	18.76	3.19	23.2	0.0	-12		32.59
950	6.0	6.37	19.09	3.19	29.9	0.0	-18		44.23
1005	9.0	6.33	19.45	3.12	43.9	0.0	-20		53.72
1020	12.0	6.43	19.47	3.18	45.2	0.0	-26		64.57
1035	15.0	6.46	19.90	3.18	52.6	0.0	-30		76.11
1040	15.75	well DRY							82.0
1610	Collected sample								57.93

COMMENTS: STRONG ODOR (SOLVENT LIKE) - WILL ALLOW WELL TO RECOVER BEFORE COLLECTING SAMPLE
DUP-1 VOCs list only

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	Cool - Cloudy - Some Rain	
SHIPPED VIA:	FedEX or lab courier	
SHIPPED TO:	AES -Atlanta, GA	
SAMPLER: EVER GUILLEN	OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-105 DEPTH TO PRODUCT: _____ DATE: 11-12-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1600

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 13.53 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: ~~29~~ 26.97 _____

13.44 X 0.17 = 2.48 X 3 = 6.85

Arrived at: _____ PURGE VOLUME: 6.85 WELL DIAMETER (inches):

Initial PID = _____ 2-inch

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1425	0.25	6.26	19.25	0.557	258	1.03	130	200 ( )	14.58
1440	1.0	6.04	19.36	0.549	204	0.87	166	200	15.63
1500	2.0	5.88	19.66	0.548	171	0.48	174	200	15.96
1510	3.0	5.92	20.04	0.538	117	0.29	185	400	16.57
1520	4.0	5.96	20.22	0.538	72.4	0.15	183	400	17.22
1530	5.0	6.00	20.23	0.531	49.8	0.11	177	400	17.93
1540	6.0	5.96	20.92	0.529	36.5	0.06	167	400	18.76
1550	7.0	5.98	20.77	0.531	29.2	0.01	174	400	19.25
1600	Collect Sample								

COMMENTS: TURBIDITY - HIGH - NOT DROPPING - PUMPED [redacted] AND SURGED WELL TILL DRY AFTER SAMPLING -

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
~~40 mL GL~~	~~3~~	~~HCL~~	~~8260~~	~~Site-Specific VOCs~~

GENERAL INFORMATION		
WEATHER:	Cool - Clear - Humid	
SHIPPED VIA:	FedEX or lab courier	
SHIPPED TO:	AES -Atlanta, GA	
SAMPLER: EVER GUILLEN		OBSERVER:

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-106D DEPTH TO PRODUCT:_____ DATE: 11-13-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1230

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 25.18 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 72.74

47.56 x .17 = 8.08 x 3 = 24.25

Arrived at:_____ PURGE VOLUME: 24.25 WELL DIAMETER (inches):

Initial PID = _____ 2-inch

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1005	0.5	5.92	17.57	~~5.92~~ 1.14	3.8	0.0	110	400 ( )	26.42
1040	4.0	6.16	19.37	1.10	7.9	1.45	149	400	34.86
1100	8.0	6.16	18.83	1.10	3.2	1.54	184	800	43.92
1120	12.0	6.09	19.54	1.08	4.3	0.97	187	800	47.13
1140	16.0	6.10	20.07	1.07	5.5	0.88	186	800	48.61
1200	20.0	6.07	20.24	1.05	5.9	0.37	188	800	48.98
1220	24.0	6.09	20.20	1.02	0.0	0.11	186	800	50.43
1230	Collect	Sample							

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	Cold - Clear - Dry	
SHIPPED VIA:	FedEX or lab courier	
SHIPPED TO:	AES -Atlanta, GA	
SAMPLER: EVER GUILLEN	OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-107D DEPTH TO PRODUCT: _____ DATE: 11/12/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 15:50

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 21.73 DEPTH TO PASSIVE DIFFUSION BAG (btoc) _____

TOTAL DEPTH: 49.75

Arrived at: 14:20 PURGE VOLUME: 28.02x0.163 = 4.57 WELL DIAMETER (Inches): 2-inch

Initial PID = _____

Bailing PID = _____ 4.57 x 3 = 13.7(g)

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 14:30	0.1	6.31	18.07	0.476	263	30.5	232	500 ( )	23.55
14:40	2.5	6.46	19.13	0.457	65.3	27.9	187	500	26.52
14:50	4.0	6.47	19.31	0.456	24.7	27.2	187	500	26.52
15:00	5.5	6.47	19.37	0.456	4.1	33.1	188	500	26.52
15:10	7.0	6.46	19.38	0.456	0.2	28.0	189	500	26.52
15:20	8.2	6.46	19.38	0.455	0.0	27.6	190	500	26.52
15:30	10.0	6.46	19.38	0.455	0.0	27.3	190	500	26.52
15:40	12.0	6.46	19.43	0.455	0.0	27.2	190	500	26.52
15:50	14.0	6.46	19.45	0.455	0.0	27.7	190	500	26.52

COMMENTS: Sampled at 15:50

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION			
WEATHER:	Clear/Sunny		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER:	Mandy Bane	OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-108 DEPTH TO PRODUCT:_____ DATE: 11-11-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1130

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 20.49 DEPTH TO PASSIVE DIFFUSION BAG (btoc) _____

TOTAL DEPTH: 36.09

Arrived at: 10:10 PURGE VOLUME: 15.6 x 0.163 = 2.54 x 3 = 7.63(g) WELL DIAMETER (inches): 2-inch

Initial PID = _____

Bailing PID = _____

Sampled By: Matthew Bauer

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 10:45	0.1	5.23	17.30	0.540	581	1.6	272	400 ( )	20.11
11:00	2.5	5.65	18.01	0.582	30.7	0.0	266	400	20.88
11:05	3.5	5.68	18.03	0.586	23.8	0.0	266	400	20.88
11:10	4.5	5.79	18.15	0.599	10.4	0.0	255	400	20.88
11:15	5.5	5.78	18.10	0.597	9.5	0.0	255	400	20.89
11:20	6.5	5.81	18.17	0.604	9.7	0.0	250	400	20.89
11:25	7.5	5.82	18.18	0.603	9.4	0.0	245	400	20.89
11:30	8.0	5.81	18.19	0.603	9.2	0.0	245	400	20.89

COMMENTS: Sampled at 11:30

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION			
WEATHER:	Clear / Sunny		
SHIPPED VIA:	FedEx or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER:	Matthew Bauer	OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-109 DEPTH TO PRODUCT:_____ DATE: 11/16/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1315

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: DUP-02 DEPTH TO WATER: 14.70
Time 1200

DEPTH TO PASSIVE DIFFUSION BAG (btoc) _____

TOTAL DEPTH: 33.30

Arrived at: 11:55 PURGE VOLUME: 18.60 x 0.163 = 3.03 =

Initial PID = _____ 9.095 (5)

Bailing PID = _____ WELL DIAMETER (inches): 2-inch

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 12:10	0.1	4.98	18.64	2.51	20.8	4.9	150	400 ( )	15.11
12:20	1.6	4.76	19.23	2.62	0.0	0.0	148	400	15.19
Ran out of gas for generator									
12:40	3.0	4.73	18.94	2.66	0.0	1.5	150	400	15.31
12:50	5.0	4.67	19.20	2.68	0.0	0.0	152	400	15.31
13:00	6.8	4.62	19.24	2.70	0.0	0.0	156	400	15.31
13:10	8.8	4.58	19.31	2.71	0.0	0.0	159	400	15.31
13:15	9.5	4.56	19.33	2.70	0.0	0.0	160	400	15.31

COMMENTS: Sampled at 13:15

Collected DUP-02 Time 1200 Analyses; Pest, Tot+ Diss metals, NO_3, SO_4

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	Sunny / Clear	
SHIPPED VIA:	FedEX or lab courier	
SHIPPED TO:	AES -Atlanta, GA	
SAMPLER: Matt Bauer		OBSERVER:

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-110 DEPTH TO PRODUCT: _____ DATE: 11/15/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 14:15

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 27.58 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 79.63 _____

Arrived at: 12:10 PURGE VOLUME: 52.05 x 0.163 = 8.48 WELL DIAMETER (inches):

Initial PID = _____ = 25.45(g) 2-inch

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 12:20	0.1	5.75	18.20	0.704	52.7	82.6	229	[illegible]	30.59
12:35	4.5	5.78	19.32	0.707	14.6	65.1	192	700 ↗	38.68
13:00	[illegible]10	5.68	19.51	0.707	0.0	61.0	184	700	39.04
13:15	14.5	5.67	19.60	0.705	0.0	43.8	181	700	39.04
13:35	20.0	5.68	19.64	0.706	0.0	36.1	177	700	39.04
14:00	25.0	5.68	19.67	0.705	0.0	29.2	173	700	39.04
14:05	26.5	5.68	19.64	0.703	0.0	26.7	172	700	39.04

COMMENTS: Sampled at 14:05

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION			
WEATHER:	Clear / Sunny		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER: Matthew Bowen		OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-111 DEPTH TO PRODUCT: NA DATE: 11/16/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1443

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 20.58 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 46.23 _____

Arrived at: 1205 PURGE VOLUME: 25.65 x .163 = 4.2 x 3 WELL DIAMETER (inches):

Initial PID = NA = 12.6 ~~2 inch~~ 2 inch

Bailing PID = NA

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1225	0.25	5.57	17.85	1.32	3.1	4.44	207	400( )	20.71
1235	1.0	6.07	18.08	1.29	0.1	1.15	148	350	20.86
1255	2.5	6.13	18.27	1.27	2.1	1.66	119	350	20.86
1315	4.0	6.07	18.19	1.27	2.4	0.81	110	350	20.87
1335	6.0	6.10	18.16	1.27	2.5	0.77	106	400	20.90
1355	8.0	6.14	18.56	1.27	1.6	0.73	99	400	20.90
1415	10.0	6.13	18.63	1.26	1.4	0.73	97	400	20.89
1425	11.0	6.12	18.53	1.26	1.1	0.71	97	400	20.88
1435	12.0	6.09	18.49	1.27	1.1	0.69	98	400	20.87
1441	12.6	6.11	18.49	1.27	0.7	0.70	98	400	20.87

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	Partly Sunny, Temp 60°F	
SHIPPED VIA:	FedEX or lab courier	
SHIPPED TO:	AES -Atlanta, GA	
SAMPLER: Daniel Howard	OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-112 DEPTH TO PRODUCT: _____ DATE: 11/10/15

Sampled by: Matthew Bowen

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 16:00

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 14.48

DEPTH TO PASSIVE DIFFUSION BAG (btoc) _____

TOTAL DEPTH: 25.21

Arrived at: 14:50 PURGE VOLUME: 10.73 x 0.163 = 1.74

Initial PID = _____ 1.74 x 3 = 5.24 (g)

Bailing PID = _____ WELL DIAMETER (inches): 2-inch

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 15:00	0.1	4.58	18.88	0.701	95.0	2.1	132	400 ( )	14.06
15:20	2.0	4.53	19.89	0.686	32.0	0.0	153	400	14.34
15:35	4.0	4.53	19.33	0.687	8.9	0.0	158	400	14.34
15:45	6.0	4.52	19.26	0.675	3.6	0.0	167	400	14.34
15:50	5.5	4.52	19.25	0.673	2.9	0.0	167	400	14.34

COMMENTS: Sampled at 15:55

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION			
WEATHER:	Clear		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER:	Matthew Bowen	OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-113 DEPTH TO PRODUCT: _____ DATE: 11/16/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1508

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 27.55 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 43.82 _____

Arrived at: 1320 PURGE VOLUME: 16.27 X .163 X 3 = 7.9L WELL DIAMETER (inches):

Initial PID = _____ 2-inch

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1330	~~1.25 Gal~~	3.65	19.30	2.234	12.8	2.64	391.8	300 ( )	27.90
1342	1.00 Gal	3.62	18.71	2.226	11.37	0.81	411.6	300	28.15
1354	2.00 Gal	3.63	18.71	2.184	3.00	0.36	417.8	300	28.15
1406	3.00 Gal	3.64	18.59	2.154	3.58	0.21	425.4	300	28.15
1418	4.00 Gal	3.62	18.34	2.154	2.71	0.13	369.1	300	28.15
1430	5.00 Gal	3.63	18.56	2.146	1.37	0.21	424.1	300	28.15
1442	6.00 Gal	3.63	18.56	2.148	2.20	0.13	420.3	300	28.15
1454	7.00 Gal	3.63	18.60	2.150	0.92	0.16	418.6	300	28.15
1506	8.00 Gal	3.64	18.75	2.156	0.80	0.17	421.6	300	28.15
1506	Sample	from	MW-113						

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION			
WEATHER:	Sunny Some Clouds Warm		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER: Mark A.		OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-114 DEPTH TO PRODUCT: _____ DATE: 11/16/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 15:45

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 25.75 DEPTH TO PASSIVE DIFFUSION BAG (btoc) _____

TOTAL DEPTH: 45.93

Arrived at: 14:45 PURGE VOLUME: 20.18 ÷ 3.29 x 3 = 9.87 (g) WELL DIAMETER (inches): 2-inch

Initial PID = _____

Bailing PID = _____

TIME 14:55	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial:	0.1	4.12	18.45	0.983	0.0	16.0	206	400 ( )	24.51
15:05	2.0	4.11	19.42	1.07	9.4	6.1	216	400	26.13
15:15	4.0	4.09	19.50	1.08	9.6	0.0	218	400	26.13
15:25	6.0	4.09	18.76	1.08	0.6	0.0	222	400	26.13
15:35	8.0	4.09	18.57	1.09	0.0	0.0	225	400	26.13
15:45	10.0	4.09	18.57	1.09	0.0	0.0	224	400	26.13

COMMENTS: Sampled at 15:45

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION			
WEATHER:	Clear		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER:	Matt Bowen	OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-115 DEPTH TO PRODUCT: _____ DATE: 1-16-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1420

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 14.19 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 22.00 _____

7.86X.17 = 1.33X3 = 4.00

Arrived at: _____ PURGE VOLUME: 4.0 WELL DIAMETER (inches):

Initial PID = _____ 2-inch

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1332	0.25	3.70	17.92	1.21	49.6	3.14	397	400 ( )	14.31
1335	0.5	3.68	18.22	1.21	14.7	3.52	442		14.33
1340	1.0	3.68	18.26	1.21	5.5	4.43	445		14.33
1350	2.0	3.68	18.33	1.21	1.10	4.08	448		14.37
1400	3.0	3.68	18.29	1.22	0.80	3.70	451		14.35
1405	3.5	3.68	18.27	1.22	0.60	3.69	450		1939
1410	4.0	3.68	18.31	1.22	0.1	3.59	450		1439
1420	Collect	Sample							

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION			
WEATHER:	Cool- Cloudy - Humid		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER: Ever Bullen		OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-116 DEPTH TO PRODUCT: _____ DATE: 11/11/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 10:20 (11-12-15)

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 30.84 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 33.36 _____

Arrived at: 14:50 PURGE VOLUME: 2.52 x 0.163 X 3 = WELL DIAMETER (inches):

Initial PID = _____ 1.23 (g) 2-inch

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 15:05	0.1	4.43	18.72	1.27	140	64.5	220	200 ( )	31.12
15:10	0.5	well went	dry.						
10:15	Sampled with Bailer on 11/12/15 - MBR								
COMMENTS:									

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION			
WEATHER:	Wet/cloudy/ misting Rain		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER:	Matthew Burer	OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-117 DEPTH TO PRODUCT:_____ DATE: 11-16-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1615

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 13.09 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 24.98

11.89x.17=2.02x3=6.06

Arrived at:_____ PURGE VOLUME: 6.06 WELL DIAMETER (inches):

Initial PID = _____ 2-inch

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1515	0.5	4.29	18.02	0.369	>1000	4.94	394	400 ( )	13.52
1520	1.0	4.29	18.26	0.363	239	5.68	429		13.65
1525	1.5	4.26	18.32	0.364	106	5.41	431		13.65
1530	2.0	4.26	18.34	0.364	57.1	5.27	432		1365
1540	3.0	4.27	18.39	0.364	41.7	4.75	434		13.68
1550	4.0	4.27	18.40	0.364	17.9	4.50	434		1368
1600	5.0	4.27	18.44	0.364	8.3	3.97	435		1367
1610	6.0	4.27	18.40	0.364	6.5	3.39	436		13.67
1615	Collect								

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
~~40 mL GL~~	~~3~~	HCL	8260	~~Site-Specific VOCs~~

GENERAL INFORMATION		
WEATHER:	COOL - CLOUDY - HUMID	
SHIPPED VIA:	FedEX or lab courier	
SHIPPED TO:	AES -Atlanta, GA	
SAMPLER: EVER GUILLEN	OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-119 DEPTH TO PRODUCT: _____ DATE: 11/17/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 14:40

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 41.60 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 54.43 _____

Arrived at: 13:05 PURGE VOLUME: 12.83 · 17 = 2.06 x 3 = WELL DIAMETER (inches):

Initial PID = _____ 2-inch

Bailing PID = _____ 6.18 (g)

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 13:35	0.1	6.72	20.94	0.545	1000	18.0	46	200 ( )	42.72
13:45	1.0	6.84	22.37	0.542	231	9.2	43	200	42.80
13:55	2.2	6.86	22.50	0.545	93.6	6.4	36	200	42.80
14:00	3.6	6.90	22.62	0.546	43.1	4.0	25	200	42.80
14:10	4.5	6.92	22.79	0.547	36.0	3.8	21	200	42.78
14:20	5.1	6.93	23.29	0.548	25.1	13.1	27	200	42.71
14:25	6.0	6.92	22.91	0.549	9.7	0.0	18	200	42.71
14:30	4.5	6.93	22.88	0.548	8.9	0.0	16	200	42.71
14:35	7.0	6.92	22.82	0.547	8.6	0.0	14	200	42.71

cleaned the flow cell interior

COMMENTS: Sampled at 14:40

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION			
WEATHER:	Clear		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER:	Matt Bauer	OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-120 DEPTH TO PRODUCT: _____ DATE: 11-17-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1945

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 44.08 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 65.50

21.42 x .17 = 3.64 x 3 = 10.92

Arrived at: _____ PURGE VOLUME: 10.92 WELL DIAMETER (inches):

Initial PID = _____ 2-inch

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1235	0.25	5.92	20.11	0.727	58.7	0.93	116	200 ( )	46.58
1250	1.0	5.98	20.35	0.721	76.11	0.0	83	200	48.72
1310	2.0	5.99	20.76	0.724	127	0.01	79	400	50.13
1315	3.0	5.94	23.93	0.724	86.4	0.14	95	800	57.92
1320	4.0	5.92	22.26	0.723	84.6	0.0	97	800	DRY
1445	Collect	Sample							

COMMENTS: Well Dry after Purging 4.0 Gallons — will allow well to recharge before collecting sample

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	COOL - CLOUDY - HUMID	
SHIPPED VIA:	FedEX or lab courier	
SHIPPED TO:	AES -Atlanta, GA	
SAMPLER: EVER GUILLEN		OBSERVER:

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: MW-121 DEPTH TO PRODUCT: _____ DATE: 11-13-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1515

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 14.41 DEPTH TO PASSIVE DIFFUSION BAG (btoc) _____

TOTAL DEPTH: 35.39

20.98 x .17 = 3.56 x 3 = 10.69

Arrived at: _____ PURGE VOLUME: 10.69 WELL DIAMETER (inches):

Initial PID = _____ 2-inch

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1322	0.25	6.47	18.62	0.510	52.5	8.95	24	400 ( )	16.79
1330	1.0	6.42	19.09	0.451	65.2	7.66	41		18.21
1350	3.0	6.21	19.96	0.272	15.0	6.56	108		18.22
1410	5.0	6.22	20.09	0.274	4.3	5.47	133		18.22
1430	7.0	6.23	20.09	0.285	1.5	4.56	144		18.22
1450	9.0	6.24	20.32	0.286	0.3	3.64	152		18.24
1510	11.0	6.24	20.40	0.286	0.1	2.95	157		18.24
1515	Collect	Sample							

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	COLD - CLEAR - DRY	
SHIPPED VIA:	FedEX or lab courier	
SHIPPED TO:	AES -Atlanta, GA	
SAMPLER: EVER GUILLEN	OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: TW-1 DEPTH TO PRODUCT: _____ DATE: 11/11/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1550

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 14.13 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 24.58 _____

Arrived at: 1410 PURGE VOLUME: 10.45×0.04 = 0.42×3 WELL DIAMETER (inches):
Initial PID = NA = 1.26 ~~2 inch~~ 3/4 inch
Bailing PID = NA

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1435	0.0	6.05	20.41	0.443	>100	1.82	88	110 ( )	NA
1445	0.25	6.26	20.21	0.461		1.64	67	110	NA
1455	0.5	6.50	19.22	0.446		2.29	24	110	
1505	0.75	6.49	19.39	0.437		1.15	7	110	
1515	1.0	6.38	19.21	0.436		0.92	0	110	
1525	1.25	6.41	19.01	0.431		1.55	-7	110	
1535	1.5	6.41	18.99	0.431		1.08	-6	110	
1540	1.65	6.43	18.55	0.444		1.15	-6	110	
1545	1.75	6.41	18.54	0.451		1.03	-5	110	

COMMENTS: Turbidity not reading. >100. Water will not clear up

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION			
WEATHER:	Clear, Temp 70°F		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER: Daniel Howard		OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: TW-2 DEPTH TO PRODUCT: NA DATE: 11/12/1

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1105

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 21.30 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 29.05 _____

Arrived at: 1020 PURGE VOLUME: 7.75x0.04 = 0.31 X 3 WELL DIAMETER (inches):
Initial PID = NA ≃ 0.93 ~~2 inch~~ 3/4 inch
Bailing PID = NA

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1040	0.1	5.05	18.23	0.420	4.9	2.27	187	200 ( )	NA
1045	0.25	5.09	18.10	0.417	6.9	1.51	184	200	
1050	0.5	5.13	18.07	0.417	3.7	1.24	182	200	
1055	0.75	5.15	18.09	0.415	1.5	1.18	180	200	
1100	1.0	5.16	18.08	0.415	0.3	1.30	182	200	

COMMENTS: Final water level after sampling 22.63

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION			
WEATHER:	Overcast, slight mist, Temp 60°F		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER: D Howard		OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: TW-3 DEPTH TO PRODUCT: _____ DATE: 11/12/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 13.50

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 25.45 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 39.77 _____

Arrived at: 12.50 PURGE VOLUME: 14.32 x 0.04 = 0.573 WELL DIAMETER (inches):

Initial PID = _____ = 1.71 ~~2 inch~~ 3/4 inch

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1310	0.1	4.05	17.68	1.64	41.6	1.92	257	200 ( )	NA
1320	0.5	3.60	17.85	1.50	31.9	1.11	337	200	
1325	0.75	3.59	17.96	1.45	20.1	1.00	351	200	
1330	1.0	3.58	18.10	1.44	13.7	0.92	357	200	
1335	1.25	3.58	18.27	1.38	10.9	0.87	365	200	
1340	1.5	3.59	18.50	1.36	7.8	0.89	357	200	
1345	1.75	3.60	18.64	1.34	6.0	0.84	367	200	

COMMENTS: Final water level 25.5 after sampling

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION			
WEATHER:	Overcast, Temp 65°F		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER: Daniel Howard		OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: TW-4 DEPTH TO PRODUCT: _____ DATE: 11/12/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1510

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 27.42 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 33.47 _____

Arrived at: 1428 PURGE VOLUME: 6.05x0.04 = 0.24x3 WELL DIAMETER (inches):
Initial PID = NA = 0.73 ~~2-inch~~ 3/4 inch
Bailing PID = NA

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1440	0.1	4.16	19.58	0.392	24.5	2.02	304	200 ( )	NA
1445	0.25	4.14	19.50	0.378	20.0	1.78	308	200	
1450	0.5	4.20	19.27	0.374	4.5	1.57	314	200	
1455	0.75	4.19	19.09	0.373	0.7	1.49	321	200	
1500	1.0	4.19	19.02	0.370	0.6	1.43	326	200	
1505	1.25	4.18	19.00	0.370	0.5	1.41	327	200	

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION			
WEATHER:	Partly Sunny, Temp 70°F		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER: Daniel Howard		OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: TW-5 DEPTH TO PRODUCT:_____ DATE: 11/13/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1452

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 21.89 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 32.29 _____

Arrived at: 1400 PURGE VOLUME: 10.4 X 0.04 = 0.42 X 3 WELL DIAMETER (inches):

Initial PID = _____ =1.26 ~~2 inch~~ 3/4 inch

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1420	0.1	5.62	16.87	1.38	188	2.38	140	200( )	NA
1425	0.25	4.51	16.77	1.36	49.5	1.49	201	200	
1430	0.5	4.33	16.74	1.39	32.2	1.21	216	200	
1435	0.75	4.27	16.73	1.40	22.2	1.11	222	200	
1440	1.0	4.27	16.76	1.42	14.5	1.03	230	200	
1445	1.25	4.22	16.74	1.42	11.2	0.90	235	200	
1450	1.5	4.23	16.75	1.43	7.9	0.88	237	200	

COMMENTS: Final water level after sampling 21.9

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	Clear, Temp 65°F	
SHIPPED VIA:	FedEX or lab courier	
SHIPPED TO:	AES -Atlanta, GA	
SAMPLER: Daniel Howard		OBSERVER:

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: TW-6 DEPTH TO PRODUCT: NA DATE: 11/16/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1107

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 24.91 DEPTH TO PASSIVE DIFFUSION BAG (btoc) _____

TOTAL DEPTH: 39.87

Arrived at: 1005 PURGE VOLUME: 14.96 x ~~0.163~~ 0.04 = 0.6 x 3 = 1.8 WELL DIAMETER (inches):

Initial PID = NA ~~2 inch~~ 3/4 inch

Bailing PID = NA

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1025	0.1	4.93	15.34	2.86	20.3	4.33	239	200 ( )	NA
1030	0.25	5.05	16.47	2.87	30.3	~~0.00~~ 1.98	235	200	
1035	0.5	5.22	16.81	2.43	12.8	1.63	225	200	
1040	0.75	5.19	16.98	2.23	8.1	1.34	225	200	
1045	1.0	5.19	16.99	2.19	6.3	1.28	225	200	
1050	1.25	5.18	17.06	2.07	3.1	1.19	226	200	
1055	1.5	5.14	17.01	1.93	0.8	1.10	227	200	
1100	1.75	5.14	16.98	1.93	0.5	1.09	228	200	
1105	2.0	5.13	16.99	1.89	0.2	1.06	228	200	

COMMENTS: Final water level 24.95

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	Clear + Cool, Temp 50°F	
SHIPPED VIA:	FedEX or lab courier	
SHIPPED TO:	AES -Atlanta, GA	
SAMPLER: Daniel Howard	OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: TW-7 DEPTH TO PRODUCT:_____ DATE: 11/17/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1345

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 20.51 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 32.24 _____

Arrived at: 1220 PURGE VOLUME: 11.73 x 0.04 = 0.5 x 3 = 1.5 WELL DIAMETER (inches):

Initial PID = NA ~~2 inch~~ 3/4 inch

Bailing PID = NA

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1240	0.1	4.00	19.39	DUP 5.81	2.5	2.23	239	100 ( )	20.58
1245	0.25	3.68	19.43	5.61	4.0	1.60	252	100	27.11
1255	0.5	3.60	19.74	5.69	11.6	1.40	264	100	28.24
1305 1300	0.75	3.73	19.96	5.65	29.1	1.13	264	100	28.98
1315	1.0	3.81	20.24	5.67	9.7	1.24	256	100	29.46
1325	1.25	3.78	20.11	5.60	5.3	1.42	248	100	29.74
1330	1.35	3.79	20.12	5.39	2.9	1.45	249	100	29.75
1335	1.5	3.80	20.48	5.41	2.9	1.50	249	100	29.76

COMMENTS: Well is going dry will let recharge and then sample
Water has pesticide odor

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION			
WEATHER:	Partly Cloudy, Temp 62°F		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER: Daniel Howard		OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: TW-8 DEPTH TO PRODUCT: _____ DATE: 11/13/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1242

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 19.37 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 29.89 _____

Arrived at: 1200 PURGE VOLUME: 10.52×0.163=0.42×3 WELL DIAMETER (inches):
Initial PID = NA ≈1.26 ~~2-inch~~ 3/4 inch
Bailing PID = NA

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1210	0.1	5.63	17.64	4.03	23.3	3.21	31	200( )	NA
1215	0.25	6.09	17.73	3.93	24.2	1.52	-32	200	
1220	0.5	6.26	17.84	3.29	4.9	1.09	-54	200	
1225	0.75	6.30	17.86	3.08	1.8	0.98	-58	200	
1230	1.0	6.33	17.87	2.91	1.1	0.90	-62	200	
1235	1.25	6.34	17.89	2.83	1.1	0.87	-64	200	
1240	1.5	6.35	17.89	2.76	0.7	0.84	-65	200	

COMMENTS: Water has pest odor; Final WL after sampling 19.4

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	Partly Sunny, Temp 60°F	
SHIPPED VIA:	FedEX or lab courier	
SHIPPED TO:	AES -Atlanta, GA	
SAMPLER: Daniel Howard	OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: TW-9 DEPTH TO PRODUCT: NA DATE: 11/17/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1128

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 20.33 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 34.92 _____

Arrived at: 1015 PURGE VOLUME: 14.59 x 0.04 = 0.6 x 3 WELL DIAMETER (Inches):
Initial PID = NA = 1.8 ~~2 inch~~ 3/4 inch
Bailing PID = NA

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1045	0.1	5.09	17.55	0.887	83.8	2.19	192	200 ( )	20.33
1055	0.5	5.06	17.62	0.913	14.1	1.43	193	200	20.72
1100	0.75	5.15	17.62	0.917	4.7	1.26	189	200	20.71
1105	1.0	5.22	17.68	0.918	2.6	1.15	186	200	20.69
1110	1.25	5.25	17.65	0.917	1.9	1.07	185	200	20.68
1115	1.50	5.27	17.69	0.915	1.4	1.05	185	200	20.68
1120	1.75	5.31	17.64	0.914	1.3	1.00	182	200	20.67
1125	2.0	5.34	17.68	0.910	1.7	0.96	180	200	20.67

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION			
WEATHER:	Partly Sunny, Temp 60°F		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER: Daniel Howard		OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: TW-10 DEPTH TO PRODUCT: _____ DATE: 11/17/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1105

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 17.40 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 29.97

Arrived at: 1015 PURGE VOLUME: 12.57 x .04 x 3 = 1.5 gal ~~5.1~~ MA WELL DIAMETER (inches):

Initial PID = _____ ~~2-inch~~ 3/4 inch

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1020		3.60	16.52	1.217	75.9	3.00	355.1	150 ( )	NS
1026	.25	3.61	16.46	1.207	28.9	0.82	374.9	150	
1032	.50	3.61	16.46	1.167	20.3	0.90	385.3	150	
1038	.75	3.61	16.46	1.161	11.7	0.92	395.9	150	
1044	1.00	3.60	16.46	1.157	9.04	0.94	388.3	150	
1050	1.25	3.60	16.50	1.157	3.84	0.96	390.2	150	
1056	1.50	3.60	16.48	1.156	6.39	0.98	393.6	150	
1102	1.75	3.60	16.51	1.154	3.78	0.96	395.6	150	
1105	Sample	time	TW-	10					

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	Partly Cloudy Cool	
SHIPPED VIA:	FedEX or lab courier	
SHIPPED TO:	AES -Atlanta, GA	
SAMPLER: Mark A		OBSERVER:

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: TW-11 DEPTH TO PRODUCT: _____ DATE: 11/11/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1230

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 30.84 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 45.03 _____

Arrived at: 1040 PURGE VOLUME: 14.19 x 0.04 = 0.57 x 3 WELL DIAMETER (inches):
Initial PID = NA = 1.7 ~~2 inch~~ 3/4 inch
Bailing PID = NA

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1115	0.0	4.75	16.65	0.457	42.5	4.68	133	125 ( )	NA
1125	0.25	4.52	17.21	0.474	18.8	3.08	144	125	
1135	0.5	4.47	17.30	0.478	16.9	3.09	150	125	
1145	0.75	4.37	17.47	0.482	11.4	3.09	190	125	
1155	1.0	4.35	17.45	0.484	1.5	2.71	213	125	
1205	1.25	4.35	17.49	0.485	0.7	2.72	232	125	
1215	1.5	4.35	17.64	0.483	0.6	2.75	244	125	
1220	1.6	4.35	17.65	0.482	0.5	2.69	247	125	
1225	1.75	4.36	17.68	0.481	0.6	2.67	250	125	
~~1230~~									

COMMENTS: Final WL after sampling 31.19

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION			
WEATHER:	Clear + Sunny, Temp 55°F		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER: Daniel Howard		OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: TW-12 DEPTH TO PRODUCT: NA DATE: 11/10/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1540

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 34.13 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 45.05 _____

Arrived at: 1400 PURGE VOLUME: 10.92 x 0.04 = 0.44 x 3 WELL DIAMETER (Inches):
Initial PID = NA = 1.3 ~~2 inch~~ 3/4 inch
Bailing PID = NA

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1440	0.0	5.33	18.72	0.312	30.3	4.61	199	125 ( )	NA
1450	0.25	5.31	18.46	0.328	12.8	3.68	211	125	
1500	0.5	5.22	18.26	0.334	3.6	3.68	227	125	
1510	0.75	5.15	18.19	0.324	2.9	3.71	237	125	
1520	1.0	5.15	18.17	0.318	3.2	3.75	242	125	
1530	1.25	5.17	18.05	0.314	2.5	3.66	247	125	
1535	1.35	5.18	18.04	0.313	2.4	3.61	246	125	

COMMENTS: Final WL 35.63 after sampling

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	Partly Sunny, Temp 65°F	
SHIPPED VIA:	FedEX or lab courier	
SHIPPED TO:	AES -Atlanta, GA	
SAMPLER: Daniel Howard	OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: OW-1 DEPTH TO PRODUCT: _____ DATE: 11/6/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 11:05

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 20.45 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 42.09 _____

Arrived at: 09:45 PURGE VOLUME: 21.64 x .163 = 3.53 = WELL DIAMETER (inches):

Initial PID = _____ 8.63 g 2-inch

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 10:10	0.1	6.27	16.85	1.40	869	1.4%	141	400 ( )	20.39
10:20	1.8	6.53	17.97	1.23	210	0.0	89	400	20.43
10:30	3.2	6.61	18.51	1.19	36.2	0.0	69	400	20.43
10:40	5.0	6.64	18.79	1.19	7.9	0.0	60	400	20.43
10:50	6.8	6.64	18.90	1.18	4.9	0.0	58	400	20.43
11:00	8.2	6.64	19.19	1.19	2.8	0.0	55	400	20.43
11:05	9.0	6.64	19.32	1.19	1.2	0.0	54	400	20.43

COMMENTS: Sampled at 11:05

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	Clear / Sunny	
SHIPPED VIA:	FedEX or lab courier	
SHIPPED TO:	AES -Atlanta, GA	
SAMPLER: Matt Baxter	OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: OW-2 DEPTH TO PRODUCT: _____ DATE: 11/13/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 14:30

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 28.80 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 42.101 _____

Arrived at: 12:50 PURGE VOLUME: 13.81 x .163 = 2.25 WELL DIAMETER (inches):

Initial PID = _____ 2-inch

Bailing PID = _____ x 3 = 6.75

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 13:20	0.1	6.42	18.20	1.11	1000	14.9	100	400 ( )	21.19
13:30	1.5	6.57	18.29	1.10	1000	0.0	77	400	21.12
13:40	3.0	6.71	18.24	1.11	1000	0.6	53	400	21.55
13:50	4.6	6.70	18.23	1.12	174	0.8	52	400	21.55
14:00	6.0	6.79	18.17	1.12	155	0.0	50	400	21.55
14:10	7.5	6.78	18.26	1.14	95.8	0.0	47	400	21.55
14:20	9.0	6.76	18.38	1.14	83.8	0.0	46	400	21.55
14:25	11.0	6.76	18.40	1.14	82.1	0.0	46	400	21.55

COMMENTS: Turbidity stayed between 70 - 150 after 4x volume purged
Sample collect 14:30

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION			
WEATHER:	Clear / Sunny		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER:	Matt Bauer	OBSERVER:	

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

WELL ID: OW-3 DEPTH TO PRODUCT: _____ DATE: 11/13/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 11:25

SAMPLE METHOD: Pump per SESDPROC 301-R3 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 21.32 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 43.64 _____

Arrived at: 09:45 PURGE VOLUME: 22.32 4 .163 = 3.64 WELL DIAMETER (inches):

Initial PID = _____ 2-inch

Bailing PID = _____ x3 = 10.926)

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 10:40	0.1	4.70	17.32	0.855	1000	37.0	287	500( )	21.61
10:20	3.0	4.82	17.90	0.926	870	0.4	307	500	21.61
10:30	5.5	4.98	17.98	0.943	466	0.0	298	500	21.61
10:40	7.0	5.07	18.06	0.967	108	0.0	290	500	21.61
10:50	8.5	5.12	18.09	0.974	98	0.0	286	500	21.61
11:00	10.2	5.10	18.11	0.976	110	0.0	283	500	21.61
11:10	11.8	6.16	18.12	0.981	85.8	0.0	279	500	21.61
11:20	13.4	5.17	18.15	0.984	119	0.0	275	500	21.61
11:25	14.6	5.17	18.17	0.985	102	0.0	274	500	21.61

COMMENTS: Turbidity fluctuated between 50 - 150 for the last volume Set. TOAK sample at 11:25

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	Nitric acid	6020	Metals: Total Arsenic Lead Copper Zinc
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION			
WEATHER:	Clear / Sunny		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER:	Matt Rader	OBSERVER:	

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

WATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

LOCATION ID: SW-2010-5 DEPTH TO PRODUCT: NA DATE: 11/18/15

PURGE METHOD: Low Flow/Low Stress : TIME: 1105

SAMPLE METHOD: Pump per SESDPROC 201-R3 SURFACE WATER GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: _____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: _____ _____

Arrived at: _____ PURGE VOLUME: _____ WELL DIAMETER (inches): NA

Initial PID = NA

Bailing PID = NA

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1105		7.31	15.81	0.545	23.1	6.20	65	( )	
COMMENTS:									

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate

GENERAL INFORMATION			
WEATHER:	Slight Rain, Temp 60°F		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER: Matt Bowen		OBSERVER: D Howard E Guillen	

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

WATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

LOCATION ID: SW-2010-10 DEPTH TO PRODUCT: NA

DATE: 11/18/15

PURGE METHOD: Low Flow/Low Stress :

TIME: 1048

SAMPLE METHOD: Pump per SESDPROC 201-R3 SURFACE WATER

GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____

DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____

_____

Arrived at:_____ PURGE VOLUME:_____

WELL DIAMETER (inches):

Initial PID = NA

Bailing PID = NA

NA

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1048		7.27	15.51	0.553	0.0	5.93	130	( )	
COMMENTS:									

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate

GENERAL INFORMATION			
WEATHER:	Slight Rain, Temp		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER: Mat Bower		OBSERVER: D Howard E Guillen	

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

WATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

LOCATION ID: SW-2010-11 DEPTH TO PRODUCT: NA DATE: 11/18/15

PURGE METHOD: Low Flow/Low Stress : TIME: 1024

SAMPLE METHOD: Pump per SESDPROC 201-R3 SURFACE WATER GRAB (x) COMPOSITE ( )

DUP./REP. OF: DUP-03 DEPTH TO WATER: DEPTH TO PASSIVE DIFFUSION BAG (btoc)
Time 1200 TOTAL DEPTH:

Arrived at: PURGE VOLUME: WELL DIAMETER (Inches):
Initial PID = NA NA
Bailing PID = NA

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1024		7.49	15.55	0.598	8.4	7.23	118	( )	
COMMENTS:	Collected DUP-03 at this location, Pest, Diss metals + NO3, SO4 Sample Time: 1200								

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate

GENERAL INFORMATION			
WEATHER:			
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER: Mat Bowen		OBSERVER: D Howard / E Guillen	

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

WATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

LOCATION ID: SW-2010-14 DEPTH TO PRODUCT: NA DATE: 11/18/15

PURGE METHOD: Low Flow/Low Stress ; TIME: 1008

SAMPLE METHOD: Pump per SESDPROC 201-R3 SURFACE WATER GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: _____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: _____ _____

Arrived at: _____ PURGE VOLUME: _____ WELL DIAMETER (inches):

Initial PID = NA NA

Bailing PID = NA

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1008		7.38	15.60	0.645	9.9	6.75	108	( )	
COMMENTS:									

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate

GENERAL INFORMATION			
WEATHER:	Slight Rain, Temp 55°F		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER:	Mat Bowen	OBSERVER:	Daniel Howard, F Guillon

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

WATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

LOCATION ID: SW-2010-15 DEPTH TO PRODUCT: NA DATE: 11/18/15

PURGE METHOD: Low Flow/Low Stress : TIME: 1000

SAMPLE METHOD: Pump per SESDPROC 201-R3 SURFACE WATER GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at:_____ PURGE VOLUME:_____ WELL DIAMETER (inches):

Initial PID = NA NA

Bailing PID = NA

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1000		7.15	15.57	0.641	11.7	6.94	86	( )	
COMMENTS:									

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate

GENERAL INFORMATION			
WEATHER:	Slight Rain Temp 55°F		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER:	Mat Bowen	OBSERVER:	D Howard / E Guillen

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

WATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

LOCATION ID: BW-2010-17 DEPTH TO PRODUCT: NA DATE: 11/18/15

PURGE METHOD: Low Flow/Low Stress : TIME: 0950

SAMPLE METHOD: Pump per SESDPROC 201-R3 SURFACE WATER GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at:_____ PURGE VOLUME:_____ WELL DIAMETER (inches):

Initial PID = NA NA

Bailing PID = NA

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 0950		6.70	15.41	0.647	14.1	7.99	35	( )	
COMMENTS:									

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate

GENERAL INFORMATION			
WEATHER:	Slight Rain, Temp 55°F		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER: M Bowen		OBSERVER: D Howard / E Gwillen	

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

WATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

LOCATION ID: SW-2014-20 DEPTH TO PRODUCT: NA DATE: 11/18/15

PURGE METHOD: Low Flow/Low Stress : TIME: 1028

SAMPLE METHOD: Pump per SESDPROC 201-R3 SURFACE WATER GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: _____ DEPTH TO PASSIVE DIFFUSION BAG (btoc) _____

TOTAL DEPTH: _____

Arrived at: _____ PURGE VOLUME: _____ WELL DIAMETER (inches): NA

Initial PID = NA

Bailing PID = NA

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1028		6.67	16.78	0.821	0.2	5.37	175	( )	
COMMENTS:									

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate

GENERAL INFORMATION			
WEATHER:	Slight Rain, Temp 58°F		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER:	Mat Bowen	OBSERVER:	D Howard / E Guillen

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

WATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

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

LOCATION ID: SW-2014-21 DEPTH TO PRODUCT: NA DATE: 11/18/15

PURGE METHOD: Low Flow/Low Stress : TIME: 1034

SAMPLE METHOD: Pump per SESDPROC 201-R3 SURFACE WATER GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at:_____ PURGE VOLUME:_____ WELL DIAMETER (inches):

Initial PID = NA NA

Bailing PID = NA

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1034		6.63	17.28	0.858	0.0	4.72	173	( )	
COMMENTS:									

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate

GENERAL INFORMATION			
WEATHER:	Slight Rain, Temp 58°F		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER:	Mat Bowen	OBSERVER:	D Howard E Guillen

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

APPENDIX B

EVALUATION OF ANNUAL AVERAGE FLOW NORMALIZED CONCENTRATIONS FOR THE UN-NAMED STREAM ON CSX PROPERTY

EVALUATION OF ANNUAL AVERAGE FLOW NORMALIZED CONCENTRATIONS FOR THE UNNAMED STREAM ON CSX PROPERTY

Georgia's Water Use Classifications and Water Quality Standards (391-3-6.03 (5) (e) (iv)) specify not-to-exceed in-stream concentrations applicable under "annual average or higher stream flow conditions" for a select list of chemical constituents. Two of these constituents, alpha-BHC and beta-BHC, have been detected in the unnamed tributary to Woodall Creek on CSX property at concentrations exceeding allowable in-stream concentrations. Therefore, Amec Foster Wheeler determined the annual average stream flow for Woodall Creek, the receiving stream for the unnamed stream on CSX property, at the Defoors Ferry United States Geological Survey (USGS) Gage for use in normalizing the measured in-stream sampling results to a long-term (30-year) annual average stream flow condition.

Determination of Annual Average Flow for Woodall Creek

The 30-year average flow for Woodall Creek was determined utilizing the USGS continuous stream flow record for Woodall Creek at Defoors Ferry, which began in 2006, in combination with the nearby Peachtree Creek USGS Gage, which began continuous operation in 1958 and can, therefore, be used as a reference or index station for record extension and augmentation of the data available for the Woodall Creek Defoors Ferry Gage. Based on the below information, the calculated annual average flow for Woodall Creek at Defoors Ferry Gage is 3.92 cubic feet per second (cfs).

Woodall Creek Defoors Ferry Gage 2006 – 2012

Sum of the Annual Average Flow – 20.68 cfs
Number of records – 7
Average Annual Flow 20.68 cfs / 7 = 2.95 cfs

Peachtree Creek Gage – 2006 - 2012

Sum of Annual Average Flow – 693.4 cfs
Number of Records – 7
Average Annual Flow 693.4 cfs / 7 = 99.06 cfs

Peachtree Creek Gage 1983 – 2012

Sum of Annual Average Flow – 3953 cfs
Number of Records – 30
Average Annual Flow 3953 cfs / 30 = 131.77 cfs

Information obtained from the USGS Surface Water Annual Statistics is included as **Attachment 1**. The long-term annual average flow for the Woodall Creek Gage adjusted to the 30 year base period for Peachtree Creek Gage is calculated as:

(2.95 / 99.06) * 131.77 = 3.92 cfs

Determination of Surface Water Concentration Normalization Factor

The stream flow in Woodall Creek, as measured at the Defoors Ferry Gage at the time of sampling on November 18, 2015 was 1.4 cfs (see **Attachment 2**). Normalized surface water analytical results for the unnamed stream surface water samples collected on November 18,

2015 were derived by multiplying the actual analytical sample results by the ratio of the concurrent instantaneous stream flow recorded at the Woodall Creek Defoors Ferry USGS Gage for the specific time of surface water sampling (1.4 cfs) divided by the long-term annual average stream-flow determined for the Woodall Creek Gage based on the above methodology (3.92 cfs). The flow normalized analytical results are presented on **Table 1** along with measured surface water concentrations. Both the raw results and the flow normalized results from November 18, 2015 exceed allowable in-stream concentrations.

TABLE 1: ANNUAL AVERAGE FLOW NORMALIZED SURFACE WATER ANALYTICAL RESULTS

Sample Location						SW-2010-5		SW2010-10		SW2010-11		SW2010-14		SW2010-15		SW2010-17	
Sample Date						11/18/2015		11/18/2015		11/18/2015		11/18/2015		11/18/2015		11/18/2015	
Distance Along Stream (ft)						735		1152		1222		1667		1761		2099	
PARAMETER, UNITS																	
Total Organochlorine Pesticides (ug/L)	**GA Instream**	**National AWQC**	**National AWQC Human Consumption of Water + Organism**	**National AWQC Human Consumption of Water**	**GA Instream Human Health**	Raw Result	Annual Average Flow Normalized Result[(1)]	Raw Result	Annual Average Flow Normalized Result[(1)]	Raw Result	Annual Average Flow Normalized Result[(1)]	Raw Result	Annual Average Flow Normalized Result[(1)]	Raw Result	Annual Average Flow Normalized Result[(1)]	Raw Result	Annual Average Flow Normalized Result[(1)]
	Ecological Exposure		**Human Health Exposure**														
alpha-BHC	not established		0.0026	0.0049	0.0049	**0.059**	**0.021**	**0.15**	**0.054**	**0.18**	**0.064**	**0.2**	**0.071**	**0.2**	**0.071**	**0.18**	**0.064**
beta-BHC	not established		0.0091	0.017	0.017	**0.064**	**0.023**	**0.082**	**0.029**	**0.092**	**0.033**	**0.3**	**0.107**	**0.29**	**0.104**	**0.27**	**0.096**

Notes:

ug/L = micrograms per liter

1 - Results normalized by multiplying raw result by ratio of instantaneous flow in Woodall Creek at the time of sampling (1.4 cfs) divided by long-term annual average flow in Woodall Creek (3.92 cfs)

Bolded results exceed GA Instream Water Quality Criteria (GA EPD 2013)

ATTACHMENT 1

DATA FOR WOODALL CREEK 30-YEAR ANNUAL AVERAGE FLOW DETERMINATION

National Water Information System: Web Interface

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USGS Surface-Water Annual Statistics for Georgia

Click for state-specific text

The statistics generated from this site are based on approved daily-mean data and may not match those published by the USGS in official publications. The user is responsible for assessment and use of statistics from this site. For more details on why the statistics may not match, click here.

USGS 02336300 PEACHTREE CREEK AT ATLANTA, GA

Available data for this site Time-series: Annual statistics | GO

Fulton County, Georgia Hydrologic Unit Code 03130001 Latitude 33°49'10", Longitude 84°24'28" NAD83 Drainage area 86.8 square miles Gage datum 763.96 feet above NGVD29	**Output formats** HTML table of all data Tab-separated data Reselect output format

Water Year	00060, Discharge, cubic feet per second
Period-of-record for statistical calculation restricted by user	
2006	106.9
2007	71.9
2008	67.6
2009	133.6
2010	160.2
2011	85.2
2012	68.0

Water Year	00060, Discharge, cubic feet per second
** No Incomplete data have been used for statistical calculation	

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Title: Surface Water data for Georgia: USGS Surface-Water Annual Statistics
URL: http://waterdata.usgs.gov/ga/nwis/annual?

Page Contact Information: Georgia Water Data Support Team
Page Last Modified: 2013-10-17 11:31:11 EDT
0.42 0.39 vaww02

USGS Surface-Water Annual Statistics for Georgia

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USGS 02336300 PEACHTREE CREEK AT ATLANTA, GA

Available data for this site: Time-series: Annual statistics GO

Fulton County, Georgia Hydrologic Unit Code 03130001 Latitude 33°49'10", Longitude 84°24'28" NAD83 Drainage area 86.8 square miles Gage datum 763.96 feet above NGVD29	**Output formats** HTML table of all data Tab-separated data Reselect output format

Water Year	00060, Discharge, cubic feet per second
Period-of-record for statistical calculation restricted by user	
1983	141.3
1984	201.1
1985	124.5
1986	73.9
1987	137.7
1988	78.7
1989	145.0

Water Year	00060, Discharge, cubic feet per second
1990	189.8
1991	178.7
1992	128.5
1993	159.6
1994	154.8
1995	118.2
1996	193.9
1997	135.8
1998	166.0
1999	80.5
2000	95.3
2001	106.6
2002	92.3
2003	198.6
2004	145.8
2005	213.0
2006	106.9
2007	71.9
2008	67.6
2009	133.6
2010	160.2
2011	85.2
2012	68.0

** No Incomplete data have been used for statistical calculation

n = 30 yrs

$\Sigma = 3953$

Avg = 3953/30 = 131.77

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USGS 02336313 WOODALL CREEK AT DEFOORS FERRY RD, AT ATLANTA, GA

Available data for this site: Time-series: Annual statistics | GO

Fulton County, Georgia Hydrologic Unit Code 03130001 Latitude 33°49'18", Longitude 84°26'20" NAD27 Drainage area 2.60 square miles Contributing drainage area 2.60 square miles Gage datum 756.2 feet above NAVD88	**Output formats** HTML table of all data Tab-separated data Reselect output format

Water Year	00060, Discharge, cubic feet per second
2006	3.50
2007	2.79
2008	2.98
2009	3.05
2010	4.52
2011	1.89
2012	1.95

$\Sigma =$

Water Year	00060, Discharge, cubic feet per second
** No Incomplete data have been used for statistical calculation	

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Title: Surface Water data for Georgia: USGS Surface-Water Annual Statistics
URL: http://waterdata.usgs.gov/ga/nwis/annual?

Page Contact Information: Georgia Water Data Support Team
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0.37 0.36 vaww02

ATTACHMENT 2

WOODALL CREEK DEFOORS FERRY GAGE DAILY FLOW DATA

(NOVEMBER 18, 2015)

National Water Information System: Web Interface

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- August 8, 2013
- Try our new Mobile-friendly water data site from your mobile device!
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USGS 02336313 WOODALL CREEK AT DEFOORS FERRY RD, AT ATLANTA, GA

PROVISIONAL DATA SUBJECT TO REVISION

Available data for this site Time-series: Current/Historical Observations | GO

Click to hidestation-specific text

The USGS operation and maintenance of this real-time streamgage and water-quality monitor is funded in cooperation with the City of Atlanta, Georgia.
This station managed by the USGS Atlanta Field Office.

Available Parameters	Available Period
☐ All 8 Available Parameters for this site	
☑ 00060 Discharge	2007-10-01 2016-01-05
☐ 00065 Gage height	2007-10-01 2016-01-05
☐ 00045 Precipitation	2007-10-01 2016-01-05
☐ 00010 Temperature, water	2007-10-01 2016-01-05
☐ 00095 Specific cond at 25C	2007-10-01 2016-01-05
☐ 00300 Dissolved oxygen	2007-10-01 2016-01-05
☐ 00400 pH	2007-10-01 2016-01-05
☐ 63680 Turbidity, Form Neph	2007-10-01 2016-01-05

Output format

○ Graph

○ Graph w/ stats
○ Graph w/o stats
○ Graph w/ (up to 3) parms
◉ Table
○ Tab-separated

Days (0) **Summary of all available data for this site** GO
Instantaneous-data availability statement

-- or --

Begin date
2015-11-18

End date
2015-11-18

TIME	Nov 18
00:00 EST	1.2[P]
00:15 EST	1.2[P]
00:30 EST	1.2[P]
00:45 EST	1.2[P]
01:00 EST	1.2[P]
01:15 EST	1.2[P]
01:30 EST	1.2[P]
01:45 EST	1.2[P]
02:00 EST	1.2[P]
02:15 EST	1.2[P]
02:30 EST	1.2[P]
02:45 EST	1.2[P]
03:00 EST	1.2[P]
03:15 EST	1.2[P]
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03:45 EST	1.2[P]
04:00 EST	1.2[P]
04:15 EST	1.2[P]
04:30 EST	1.2[P]

TIME	Nov 18
04:45 EST	1.2[P]
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05:15 EST	1.2[P]
05:30 EST	1.2[P]
05:45 EST	1.2[P]
06:00 EST	1.2[P]
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07:15 EST	1.3[P]
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09:30 EST	1.3[P]
09:45 EST	1.4[P]
10:00 EST	1.4[P]
10:15 EST	1.4[P]
10:30 EST	1.3[P]
10:45 EST	1.3[P]
11:00 EST	1.3[P]
11:15 EST	1.4[P]
11:30 EST	1.4[P]
11:45 EST	

TIME	Nov 18
	1.4[P]
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12:15 EST	1.4[P]
12:30 EST	1.5[P]
12:45 EST	1.8[P]
13:00 EST	2.0[P]
13:15 EST	2.2[P]
13:30 EST	2.3[P]
13:45 EST	2.2[P]
14:00 EST	2.2[P]
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14:30 EST	2.2[P]
14:45 EST	3.0[P]
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15:30 EST	3.2[P]
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16:00 EST	2.8[P]
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16:45 EST	2.5[P]
17:00 EST	2.6[P]
17:15 EST	3.0[P]
17:30 EST	5.1[P]
17:45 EST	32[P]
18:00 EST	202[P]
19:00 EST	254[P]
19:15 EST	296[P]
COUNT	**75**

TIME	Nov 18
MAX	296
MIN	1.2

Explanation

P	Provisional data subject to revision.

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